

8.1.3. Citări în reviste de specialitate cotate ISI

ANEXA

Ene Antoaneta (+ Sion A. + Gosav S. + Ceoromila A.) = 742 citări WoS

1. N Rajesh Jesudoss Hynes, J Senthil Kumar, Hesam Kamyab, J Angela Jennifa Sujana, Omar Ali Al-Khashman, Yasemin Kuslu, **Antoaneta Ene**, B Suresh Kumar, **Modern enabling techniques and adsorbents based dye removal with sustainability concerns in textile industrial sector-A comprehensive review**, Journal of cleaner production 272, 122636, 2020 <https://doi.org/10.1016/j.jclepro.2020.122636> (256) Web of Science

Web of Science:

1. Rana, A. K., Gupta, V. K., Hart, P., & Thakur, V. K. (2024). Cellulose-alginate hydrogels and their nanocomposites for water remediation and biomedical applications. *Environmental Research*, 243, 117889. <https://doi.org/10.1016/j.envres.2023.117889>
2. Akhtar, M. S., Ali, S., & Zaman, W. (2024). Innovative Adsorbents for Pollutant Removal: Exploring the Latest Research and Applications. *Molecules*, 29(18), 4317. doi: [10.3390/molecules29184317](https://doi.org/10.3390/molecules29184317)
3. Papamichael, I., Voukkali, I., Economou, F., Loizia, P., Demetriou, G., Esposito, M., Vincenzo Naddeo, Marco Ciro Liscio, Paolo Sospiro & Zorpas, A. A. (2024). Mobilisation of textile waste to recover high added value products and energy for the transition to circular economy. *Environmental Research*, 242, 117716. <https://doi.org/10.1016/j.envres.2023.117716>
4. Jadhav, S. A., Somvanshi, S. B., Gawali, S. S., Zakde, K., & Jadhav, K. M. (2024). Rare earth-doped mixed Ni-Cu-Zn ferrites as an effective photocatalytic agent for active degradation of Rhodamine B dye. *Journal of Rare Earths*, 42(3), 488-496. <https://doi.org/10.1016/j.jre.2023.03.004> Web of Science
5. Kallawar, G. A., & Bhanvase, B. A. (2024). A review on existing and emerging approaches for textile wastewater treatments: challenges and future perspectives. *Environmental Science and Pollution Research*, 31(2), 1748-1789. <https://doi.org/10.1007/s11356-023-31175-3>
6. Bazarin, G., Módenes, A. N., Espinosa-Quiñones, F. R., Borba, C. E., Trigueros, D. E. G., & Dall'Olgio, I. C. (2024). High removal performance of reactive blue 5G dye from industrial dyeing wastewater using biochar in a fixed-bed adsorption system: Approaches and insights based on modeling, isotherms, and thermodynamics study. *Journal of Environmental Chemical Engineering*, 12(1), 111761. <https://doi.org/10.1016/j.jece.2023.111761>
7. Akmal, S. A., Khalid, M., Ahmad, M. S., Shahid, M., & Ahmad, M. (2024). Interwoven Architectural Complexity in Ni (II) Ion-Based 3D MOF Using Bipyridine and Tetrabenzenecarboxylic Acid: Adsorption Insights in Highly Efficient Iodine and Cationic Dye Capture. *Crystal Growth & Design*, 24(17), 7173-7193. DOI: [10.1021/acs.cgd.4c00809](https://doi.org/10.1021/acs.cgd.4c00809)
8. Chen, X., Cheng, X., Zhang, T., Chen, H. W., & Wang, Y. (2024). Decarbonization practices in the textile supply chain: Towards an integrated conceptual framework. *Journal of Cleaner Production*, 435, 140452. <https://doi.org/10.1016/j.jclepro.2023.140452> Web of Science
9. Rajput, V., Saini, I., Parmar, S., Pundir, V., Kumar, V., Kumar, V., Vivek Kumar, Bindu Naik & Rustagi, S. (2024). Biochar production methods and their transformative potential for environmental remediation. *Discover Applied Sciences*, 6(8), 408. <https://doi.org/10.1007/s42452-024-06125-4> Web of Science
10. Kumari, B., Chauhan, S., Kumar, K., Singh, S., Ranote, S., Kumar, R., & Chauhan, G. S. (2024). Fabricating whole pine needles biomass with phenylhydrazine-4-sulphonic acid for effective removal of cationic dyes and heavy metal ions from wastewater. *Chemosphere*, 364, 143103. <https://doi.org/10.1016/j.chemosphere.2024.143103>
11. Sorour, F. H., Aboeleneen, N. M., Abd El-Monem, N. M., Ammar, Y. A., & Mansour, R. A. (2024). Removal of malachite green from wastewater using date seeds as natural adsorbent; isotherms, kinetics, Thermodynamic, and batch adsorption process design. *International Journal of Phytoremediation*, 26(8), pages: 1321 – 1335. <https://doi.org/10.1080/15226514.2024.2316315> Web of Science
12. Telli, S., Ghodbane, H., Nessaibia, M., Jalgham, R., Boublia, A., Benguerba, Y., Louiza Ouksel , Naima Maouche & Khalfaoui, M. (2024). Remediation of cationic dye from aqueous solution through adsorption utilizing natural Haloxylon salicornicum: An integrated experimental, physical statistics and molecular modeling investigation. *Journal of Molecular Liquids*, 411, 125777. <https://doi.org/10.1016/j.molliq.2024.125777>
13. Murugesan, B., Madhan, D., Devabharathi, V., Kumar, D. S., Christy, T. A., Surendhiran, S., A. Balamurugan & Khadar, Y. S. (2024). Phytofabrication of MgO NPs wrapped on exfoliated g-C3N4 for anti-oxidant, antimicrobial degradation of toxic contaminants in water bodies. *Inorganic Chemistry Communications*, 170, 113427. <https://doi.org/10.1016/j.inoche.2024.113427> Web of Science
14. Norbert, A., John, S. S., Shaji, S., Jacob, M. V., & Philip, R. R. (2024). Green synthesized Cu-doped CeO₂ nanoparticles for Congo red dye adsorption and antibacterial action. *Nanotechnology*, 35(26), 265708. DOI 10.1088/1361-6528/ad3649 Web of Science
15. Salman, A. B., Al-khateeb, R. T., & Abdulqahar, S. N. (2024). Electrochemical removal of crystal violet dye from simulated wastewater by stainless steel rotating cylinder anode: COD reduction and decolorization. *Desalination and Water Treatment*, 320, 100787. <https://doi.org/10.1016/j.desal.2024.100787>
16. Ali, F., Yasir, H. M., Younas, U., Saleem, A., Hussain, E., Mohammed, O. A., Munawar Iqbal, Faiza Imtiaz, Mustafa Ahmed Abdel-Reheim & Pervaiz, M. (2024). Rhodamine-B degradation, chromium removal and bactericidal potential of Cu-ZnO@ZrO₂ nanoneedles fabricated via green route. *Materials Chemistry and Physics*, 332, 130176. <https://doi.org/10.1016/j.matchemphys.2024.130176>
17. Singh, G. B., Vinayak, A., Mudgal, G., & Kesari, K. K. (2024). Azo Dye Bioremediation: An Interdisciplinary Path to Sustainable Fashion. *Environmental Technology & Innovation*, 36, 103832. <https://doi.org/10.1016/j.eti.2024.103832> Web of Science
18. Majamo, S. L., Amibo, T. A., & Mekonnen, D. T. (2024). Experimental investigation on adsorption of methylene blue dye from waste water using corncobs cellulose-based hydrogel. *Scientific Reports*, 14(1), 4540.
19. Costa, M. L. D., Franco, D. S. P., da Silva, W. L., Georgin, J., & Oliveira, J. S. D. (2024). Enhancing Sustainability in Advanced Oxidation Processes: CoFe2O4 as a Catalyst Reinforcement for Tartrazine Dye Degradation. *Sustainability*, 17(1), 225. <https://doi.org/10.3390/su17010225>
20. Feng, Y., Zhu, J., Cui, H., Lu, Z., Li, J., Wang, Y., Chengqi Jiao & Xiong, X. (2024). Clean production and dyeing of fluorescent yellow dyes based on naphthalic anhydride in supercritical carbon dioxide. *The Journal of Supercritical Fluids*, 217, 106470. <https://doi.org/10.1016/j.supflu.2024.106470>
21. Beljin, J., Đukanović, N., Rončević, S., Isakovski, M. K., & Maletić, S. (2024). Environmental Restoration of Contaminated Sediment and Soils: The Role of Organic Amendments in PAH Remediation. *Current Pollution Reports*, 10(4), 580-593. <https://doi.org/10.1007/s40726-024-00327-5>
22. Singh, V., Lalitha, K., Maheswari, C. U., Sridharan, V., Pradhan, D., Batra, S., & Nagarajan, S. (2024). Remediation of Dyes Using Supramolecular Material Derived from Carbohydrate Based π-Gelator Using the Bottom-Up Assembly Approach. *ACS omega*, 9(5), 5695-5704. <https://doi.org/10.1021/acsomega.3c08179> Web of Science
23. Zhou, X., Lei, W., Qin, X., Lai, X., Hu, K., & Zhao, S. (2024). Regulating the surface chemistry of covalent organic frameworks for enhancement cationic dye removal and identification. *Analytical and Bioanalytical Chemistry*, 1-11. <https://doi.org/10.1007/s00216-024-05687-x>
24. Tran, G. T., Nguyen, T. T. T., Nguyen, D. T. D., Nguyen, D. H., Nguyen, D. T. C., & Tran, T. V. (2024). Conversion of invasive plant species (*Bidens pilosa* L.) into bioadsorbents for simultaneous removal of ciprofloxacin antibiotic and crystal violet dye. *Biomass Conversion and Biorefinery*, 1-13. <https://doi.org/10.1007/s13399-024-06082-3> Web of Science

25. Xu, Y., Wang, Q., Wang, Y., Hu, F., Sun, B., Gao, T., & Zhou, G. (2024). One-Step Synthesis of Polyethyleneimine-Grafted Styrene-Maleic Anhydride Copolymer Adsorbents for Effective Adsorption of Anionic Dyes. *Molecules*, 29(8), 1887. <https://doi.org/10.3390/molecules29081887> Web of Science
26. Senthil Rathi, B., Ewe, L. S., Yew, W. K., & Tiong, S. K. (2024). Recent trends and advancement in metal oxide nanoparticles for the degradation of dyes: synthesis, mechanism, types and its application. *Nanotoxicology*, 8(3): 272-298. <https://doi.org/10.1080/17435390.2024.2349304>
27. Moradnejati, S., Soleiman-Beigi, M., Lemraski, E. G., & Bagheli, M. (2024). Synthesis and application of natural asphalt sulfonic acid (NA-SO₃H) as a novel and reusable carbonaceous super adsorbent for rapid decolorization of aqueous dye solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 690, 133741. <https://doi.org/10.1016/j.colsurfa.2024.133741> Web of Science
28. Miranda, E. C., Prado, P. G., & León-Velarde, C. (2024). A systematic review of polluting processes produced by the textile industry and proposals for abatement methods. *Textile & Leather Review*, 7(88), 103. <https://doi.org/10.31881/TLR.2023.165>
29. Shao, Y., Xie, Z., Li, J., & Qi, D. (2024). A color regulation and matching of nanoscale polymer encapsulated pigment hybrid latex foam dyeing for cotton/polyester blended fabrics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 686, 133369. [Web of Science](#)
30. Shuaibov, A. O., Abdurakhmanov, M. G., Magomedova, A. G., Omelyanchik, A., Salnikov, V., Aga-Tagieva, S., Valeria Rodionova, Murtazali Kh. Rabadanov & Orudzhev, F. F. (2024). Sonophotocatalytic degradation of methylene blue with magnetically separable Zn-Doped-CoFe₂O₄/α-Fe₂O₃ heterostructures. *Journal of Materials Science: Materials in Electronics*, 35(7), 520. <https://doi.org/10.1007/s10854-024-12252-w>
31. Duran, E., Ozturk, C., & Ornek, M. A. (2024). Combinatorial optimization methods for yarn dyeing planning. *Flexible Services and Manufacturing Journal*, 1-38. <https://doi.org/10.1007/s10696-024-09541-1> Web of Science
32. Katibi, K. K., Shitu, I. G., Othman, S. H. B., Yunos, K. F. M., Ismail, A. F., Aqmar, N. A. B. N. K., & Ilias, H. M. B. (2024). Development of eco-friendly microwaved chitosan-based nanocomposite membrane for efficient capturing of cationic dyes from aqueous solution: permeability and fouling studies. *Emergent Materials*, volume 7, pages 999 - 1018. <https://doi.org/10.1007/s42247-024-00664-7>
33. Badawy, N. M., & Naguib, D. M. (2024). Polyphenol Oxidase from Agricultural Wastes for Dye Removal from Wastewater. *Water, Air, & Soil Pollution*, 235(6), 1-19. <https://doi.org/10.1007/s11270-024-07175-5>
34. Abbass, A., Hassan, S., Imran, Z., Batool, S. S., Ahmed, M., Ahmad, A. I., D. Mazhar & Zaman, S. (2024). Comparison between carbon nanotubes and molybdenum trioxide nanoparticles embedded in polymeric membrane for environmental remediation. *International Journal of Environmental Science and Technology*, 21(6), 5705-5718. <https://doi.org/10.1007/s13762-023-05370-1>
35. de Araujo, L. G., Martins, G. F., Campera, A. A. A., Marumo, J. T., & Guilhen, S. N. (2024). Biosorption of methylene blue by bone meal: experimental and modeling with machine learning and full factorial design. *Frontiers in Environmental Chemistry*, 5, 1451051. <https://doi.org/10.3389/fenvc.2024.1451051>
36. Alasmari, A., Alresheedi, N. M., Alzahrani, M. A., Aldosari, F. M., Ghasemi, M., Ismail, A., & Aboraia, A. M. (2024). High-Performance Photocatalytic Degradation—A ZnO Nanocomposite Co-Doped with Gd: A Systematic Study. *Catalysts*, 14(12), 946. DOI:10.3390/catal14120946
37. Zahra, S., Alanazi, M. M., Abdelmohsen, S. A., Alahmari, S. D., Al-Zahrani, F. A., Al-Sehem, A. G., A.M.A.Henaish, Zubair Ahmad & Tahir Farid, H. M. (2024). Sunlight-Driven Photocatalytic Degradation of Methylene Violet (MV) by Employing Samarium-Doped Tungsten Disulfide. *Water, Air, & Soil Pollution*, 235(5), 268. <https://doi.org/10.1007/s11270-024-07078-5> Web of Science
38. Ghouas, H., Benderrag, A., Haddou, B., & Gourdon, C. (2024). Removal of acid dye from wastewater by cloud point extraction and regeneration of surfactant by pH regulation. *Tenside Surfactants Detergents*, 61(1), 35-45. <https://doi.org/10.1515/tsd-2023-2557>
39. Rajput, V., Saini, I., Parmar, S., Pundir, V., Kumar, V., Kumar, V., Bindu Naik & Rustagi, S. Biochar production methods and their transformative potential for environmental remediation. *Discover Applied Sciences* 6, 408 (2024). <https://doi.org/10.1007/s42452-024-06125-4>
40. Rizkiana, M. F., Salsabila, Z. A., Aulia, R. I., Amini, H. W., Palupi, B., Rahmawati, I., & Fachri, B. A. Microwave-assisted synthesis of chitosan-hydroxyapatite composite from eggshells and its adsorption properties. *ScienceAsia* 50 (3): 2024: ID 2024067: 1–7. doi: 10.2306/scienceasia1513-1874.2024.067

2. Harry Harmens, DA Norris, K Sharps, G Mills, R Alber, Y Aleksiayenak, O Blum, S-M Cucu-Man, M Dam, L De Temmerman, A Ene, JA Fernández, J Martínez-Abaigar, M Frontasyeva, B Godzik, Z Jeran, P Lazo, S Leblond, S Liiv, SH Magnússon, B Mařkovská, G Pihl Karlsson, J Piispanen, J Poikolainen, JM Santamaría, M Skudník, Z Spiric, T Stafilov, E Steinnes, C Stihl, I Suchara, Lotti Thöni, R Todoran, L Yurukova, HG Zechmeister **Heavy metal and nitrogen concentrations in mosses are declining across Europe whilst some “hotspots” remain in 2010**. *Environmental Pollution* 200, 93-104, 2015 <https://doi.org/10.1016/j.envpol.2015.01.036> (235) Web of Science

Web of Science:

1. Chaudhuri, Siroop, and Mimi Roy. "Global ambient air quality monitoring: Can mosses help? A systematic meta-analysis of literature about passive moss biomonitoring." *Environment, Development and Sustainability* 26.3 (2024): 5735-5773. <https://doi.org/10.1007/s10668-023-03043-0>
2. Ding, C., Yang, Q., Zhao, X., Xu, L., Tang, H., Liu, Z., Juan Zhai & Zhang, Q. (2024). A review of 210Pb and 210Po in moss. *Journal of Environmental Radioactivity*, 276, 107448. <https://doi.org/10.1016/j.jenrad.2024.107448>
3. Stafilov, T., Šajni, R., & Alijagić, J. (2024). Investigations of Chemical Element Distributions in Soil, North Macedonia—A Review. *Minerals*, 14(3), 325. <https://doi.org/10.3390/min14030325>
4. Aničić Urošević, M., Ilić, M., Radnović, D., Vergel, K., Yushin, N., Chaligava, O., & Zinicovscaia, I. (2024). Comparative biomonitoring of airborne potentially toxic elements using mosses (*Hypnum cupressiforme*, *Brachythecium spp.*) and lichen (*Evenia prunastri*) over remote areas. *Environmental Science and Pollution Research*, 31(35), 48296-48312. <https://doi.org/10.1007/s11356-024-34353-z>
5. Lazo, P., Kane, S. S., Qarri, F., Allajbeu, S., & Bekteshi, L. (2024). 15 Years of Moss Biomonitoring for Air Quality Assessment in Albania. *Aerosol and Air Quality Research*, 24, 240011
6. Warczyk, A., Gruba, P., Józefowska, A., Wanic, T., Warczyk, A., Świątek, B., Julita Bujak & Pietrzkowski, M. (2024). Accumulation of Heavy Metals in Blueberry (*Vaccinium myrtillus* L.) and Dominant Mosses (*Pleurozium schreberi* (Willd. ex Brid.) Mitt.) as Bioindicators of the Expressway Influence on Forest Ecosystems. *Atmosphere*, 15(8), 971. <https://doi.org/10.3390/atmos15080971>
7. Hansen, E., Bustnes, J. O., Herzke, D., Bangjord, G., Ballesteros, M., Bårdesen, B. J., Eric Bollinger, Ralf Schulz, Igor Eulaers & Bourgeon, S. (2024). Feathers as integrated archives of environmental stress: Direct and indirect effects of metal exposure and dietary ecology on physiological stress in a terrestrial raptor. *Science of the Total Environment*, 954, 176324. <https://doi.org/10.1016/j.scitotenv.2024.176324> Web of science
8. Du, C., Guo, Q., Wu, P., Yi, Z., Wei, R., Dong, X., Ziteng Wang & Zhang, J. (2024). Estimating atmospheric nitrogen deposition within a large river basin using moss nitrogen and isotope signatures. *Chemosphere*, 347, 140617.
9. Macedo-Miranda, M. G., Barrera-Díaz, C. E., Avila-Pérez, P., López-Solórzano, E., Ortiz-Oliveros, H. B., & Zavala-Arce, R. E. (2024). Bioconcentration capacity of moss *Leskeia angustata* Tayl., for heavy metals and its application in the atmospheric biomonitoring of a metropolitan area. *Atmospheric Environment*, 331, 120579. <https://doi.org/10.1016/j.atmosenv.2024.120579>
10. Smieja-Król, B., Fialkiewicz-Koziel, B., Kądziołka-Gawel, M., Kubacki, J., Prokopowicz, A., Smieja, A., & Siepak, M. (2024). Self-stabilization of Zn, Pb, Cd, and As in smelter-impacted organic-rich soil: The effect of hydrous Fe oxides and ZnCd sulfide coprecipitation. *Chemical Geology*, 643, 121833. <https://doi.org/10.1016/j.chemgeo.2023.121833>
11. Kane, S. S., Bekteshi, L., Allajbeu, S., & Lazo, P. (2024). Moss biomonitoring of air quality linked with trace metals pollution around a metallurgical complex in Elbasan, Albania. *Air Quality, Atmosphere & Health*, volume 17, pages 2045 - 2055. <https://doi.org/10.1007/s11869-024-01562-x>

12. Pilková, Z., Filová, L., Hiller, E., & Mihaljevič, M. (2024). Re-Interpretation of Metal (Loid) Concentrations in Urban Soils of Two Different Land Uses by Positive Matrix Factorisation. *Environmental Forensics*, 25(6), pages 626 - 644. [Web of Science](https://doi.org/10.1080/15275922.2024.2330021)
13. Šajn, R., Baćeva Andonovska, K., Stafilov, T., & Barandovski, L. (2024). Moss as a Biomonitor to Identify Atmospheric Deposition of Minor and Trace Elements in Macedonia. *Atmosphere*, 15(3), 297. <https://doi.org/10.3390/atmos15030297>
14. Lima, L. H. V., da Silva, F. B. V., Araújo, P. R. M., Alvarez, A. M., Pôrto, K. C., & do Nascimento, C. W. A. (2024). Assessing heavy metal contamination in a Brazilian metropolis: a case study with a focus on (bio) indicators. *Environmental Monitoring and Assessment*, 196(5), 481. <https://doi.org/10.1007/s10661-024-12661-8>
15. Urošević, M. A., Radnović, D., Ilić, M., Krmar, M., Kodranović, I., Relić, D., & Popović, A. (2024). Atmospheric deposition of potentially toxic elements over the territory of Serbia assessed by moss biomonitoring in five-year time: 2015 vs. 2020. *Journal of the Serbian Chemical Society*. <https://doi.org/10.2298/JSC240906100U>
16. Gahtori, D., Singh, J., & Vyas, A. (2024). Assessment of atmospheric metal deposition by moss Thuidium cymbifolium (Dozy & Molk.) Dozy & Molk. At Champawat Hills, India. *Vegetos*, 1-13. <https://doi.org/10.1007/s42535-024-00937-w>
17. Aničić, U. M. P., Radnović, D. V., Ilić, M. M., Krmar, M. D., Kodranović, I. D., Relić, D. J., & Popović, A. R. (2024). Atmospheric deposition of potentially toxic elements over the territory of Serbia assessed by moss biomonitoring in five-year time: 2015 vs. 2020. *Journal of the Serbian Chemical Society*, (00), 100-100. <https://doi.org/10.2298/JSC240906100A>

3. A Ene, A Bosneaga, L Georgescu, Determination of heavy metals in soils using XRF technique, Rom. Journ. Phys 55 (7-8), 815-820, 2010 (177) [Web of Science](#)

Web of Science:

1. Sulthana, S. F., Iqbal, U. M., Suseela, S. B., Anbazhagan, R., Chinthaginjala, R., Chitathuru, D., Irfan Ahmad & Kim, T. H. (2024). Electrochemical Sensors for Heavy Metal Ion Detection in Aqueous Medium: A Systematic Review. *ACS omega*, 9(24), 25493-25512. <https://doi.org/10.1021/acsomega.4c00933>
2. Taylor, S., Jaliff, L., Wells, G., & Josephson, C. (2024). Is it time to start moving soil microbial fuel cell research out of the lab and into the field? *Science of The Total Environment*, 949, 175229. <https://doi.org/10.1016/j.scitotenv.2024.175229>
3. Rao, Y. B., Gupta, S. N., Kumar, P. N., & Srivastava, D. (2024). Development of a simple and rapid EDXRF method for quantification of ZrO 2 and HfO 2 in aqueous and organic process stream solutions generated from a zirconium extraction facility. *Journal of Analytical Atomic Spectrometry*, Issue 7. <https://doi.org/10.1039/D3JA00459G> [Web of Science](#)
4. Vian, D. A., & Aziz, F. H. (2024). INTERACTION EFFECT OF CHEMICAL AND ORGANIC FERTILIZERS ON THE YIELD AND YIELD COMPONENTS OF Gundelia rosea AT DIFFERENT PLANT DENSITIES IN THE FIELD. */RAQI JOURNAL OF AGRICULTURAL SCIENCES*, 55(3), 962-971.
5. Hasan, Z., Jamal, A., & Hassan, T. (2024). Different Approaches for Detecting Heavy Metal Ions. *Remediation of Heavy Metals: Sustainable Technologies and Recent Advances*, chapter 5, pages: 83-107. <https://doi.org/10.1002/9781119853589.ch5>
6. Glaubitz, C., Bazzoni, A., Neururer, C., Locher, R., Caldwell, J., Spuch-Calvar, M., Laura Rodriguez Lorenzo , Sandor Balog , Vincent Serneels , Barbara Rothen-Rutishauser & Fink, A. P. (2024). Correct labelling? A full analytical pathway for silica and titania particles in food products. *Current Research in Food Science*, 9, 100808. <https://doi.org/10.1016/j.crcs.2024.100808>
7. LECAJ, E. D., HASKAJ, A., & PAÇARIZI, M. (2024). POLLUTION INDICATORS OF HEAVY METALS IN THE SEDIMENTS OF THE LEPENC RIVER IN KOSOVO. *Environment Protection Engineering*, 50(3). <https://doi.org/10.37190/epe240305>

4. H Harmens, D Norris, G Mills, the participants of the moss survey, Heavy metals and nitrogen in mosses: spatial patterns in 2010/2011 and long-term temporal trends in Europe, NERC/Centre for Ecology & Hydrology, 2013 (109) [Web of Science](#)

Web of Science:

1. Michel, L., Renaudin, M., Damajoux, R., Blasi, C., Vacherand, G., Le Monier, P., Daniel Houle & Bellenger, J. P. (2024). Evaluating the effect of moss functional traits and sampling on elemental concentrations in Pleurozium schreberi and Ptilium crista-castrensis in Eastern Canada (Québec) black spruce forest. *Science of The Total Environment*, 907, 167900. <https://doi.org/10.1016/j.scitotenv.2023.167900>
2. Lv, D., Wang, L., Ge, X., Zhang, Y., Ye, Q., Huang, Y., & Duan, L. (2024). Sulfur, Nitrogen and Heavy Metals in Headwater Streams of Upper Qinghai Lake, Northeast Qinghai-Tibet Plateau: Possible Pollution by Atmospheric Deposition. *ACS ES&T Water*, Vol 4/Issue 7 <https://doi.org/10.1021/acsestwater.3c00792>
3. Chaligava, O., Zinicovscaia, I., Peshkova, A., Yushin, N., Frontasyeva, M., Vergel, K., Makhabbat Nurkassimova & Cepoi, L. (2024). Major and Trace Airborne Elements and Ecological Risk Assessment: Georgia Moss Survey 2019–2023. *Plants*, 13(23), 3298. <https://doi.org/10.3390/plants13233298>
4. Stafilov, T., Šajn, R., Damčevska, D., & Tănăselia, C. (2024). Moss biomonitoring of lithogenic impact on the distribution of various chemical elements in the air in the region of Mariovo, North Macedonia. *Journal of Environmental Science and Health, Part A*, 1-14. <https://doi.org/10.1080/10934529.2024.2440690>
5. Nurkassimova, M., Omarova, N., Yushin, N., Grozdov, D., Vergel, K., & Zinicovscaia, I. (2024). Assessment of air pollution in South Kazakhstan using moss (*Hylocomium splendens*) biomonitoring technique and neutron activation analysis. *Journal of Radioanalytical and Nuclear Chemistry*, volume 333, pages 4367 - 4376. <https://doi.org/10.1007/s10967-024-09562-y>

5. C Stihă, C Radulescu, G Busuioc, IV Popescu, A Gheboianu, A Ene, Studies on accumulation of heavy metals from substrate to edible wild mushrooms, Romanian Journal of Physics 56 (1-2), 257-264, 2011 (101) [Web of Science](#)

Web of Science:

1. Bucurica, I. A., Dulama, I. D., Radulescu, C., Banica, A. L., & Stanescu, S. G. (2024). Heavy Metals and Associated Risks of Wild Edible Mushrooms Consumption: Transfer Factor, Carcinogenic Risk, and Health Risk Index. *Journal of Fungi*, 10(12), 844. <https://doi.org/10.3390/jof10120844> [Web of Science](#)
2. Ukaogo, P. O., Aljer, L., Nwaru, E. C., Imrana, I., Tang, J., Ajong, A. B., Precious Onyinyechi Emole, Oys Siddhant h, Chizoba Thelma & Ukaogo, C. T. Evaluation and risk assessment of heavy metals in King tuber mushroom in the contest of COVID-19 pandemic lockdown in Sokoto state, Nigeria, *Kuwait Journal of Science*, (2024), 51(2), 100193. <https://doi.org/10.1016/j.kjs.2024.100193>
3. Prince Onyedinma Ukaogo a, Loai Aljer, Ezeibe Chidi Nwaru, Ibrahim Imrana, Jian Tang, Atem Bethel Ajong, Precious Onyinyechi Emole, Oys Siddhant, Chizoba Thelma Ukaogo, Evaluation and risk assessment of heavy metals in King tuber mushroom in the contest of COVID-19 pandemic lockdown in Sokoto state, Nigeria, *Kuwait Journal of Science*, 2024, 51, 100193. <https://doi.org/10.1016/j.kjs.2024.100193> [Web of Science](#)

6. Harry Harmens, Gina Mills, Felicity Hayes, David Norris, the participants of the ICP Vegetation, Air pollution and vegetation: ICP Vegetation annual report 2010/2011, NERC/Centre for Ecology & Hydrology, 2011 (96). [Web of Science](#)

Web of Science:

1. de Vries, W., Posch, M., Simpson, D., de Leeuw, F. A., van Grinsven, H. J., Schulte-Uebbing, L. F., Mark A. Sutton & Ros, G. H. (2024). Trends and geographic variation in adverse impacts of nitrogen use in Europe on human health, climate, and ecosystems: A review. *Earth-Science Reviews*, 253, 104789. <https://doi.org/10.1016/j.earscirev.2024.104789>
2. de la Paz, D., Borge, R., de Andrés, J. M., Tovar, L., Sarwar, G., & Napelenok, S. L. (2024). Summertime tropospheric ozone source apportionment study in the Madrid region (Spain). *Atmospheric Chemistry and Physics*, 24(8), 4949-4972. <https://doi.org/10.5194/acp-24-4949-2024>

7. DE Abulyazied, A Ene, An investigative study on the progress of nanoclay-reinforced polymers: Preparation, properties, and applications: A review, *Polymers* 13 (24), 4401, 2021 (88) Web of Science

Web of Science:

1. Perera, K. Y., Hopkins, M., Jaiswal, A. K., & Jaiswal, S. (2024). Nanoclays-containing bio-based packaging materials: Properties, applications, safety, and regulatory issues. *Journal of Nanostructure in Chemistry*, 14(1), 71-93. <https://doi.org/10.1007/s40097-023-00525-5>
2. Boraei SB, Bakhshandeh B, Mohammadzadeh F, Haghghi DM, Mohammadpour Z. Clay-reinforced PVC composites and nanocomposites. *Helijon*. 2024, volume 10, issue 7, e29196, <https://doi.org/10.1016/j.helijon.2024.e29196>
3. Jeon, H., Na, C., Kwac, L. K., Kim, H. G., & Chang, J. H. (2024). Effects of various types of organo-mica on the physical properties of polyimide nanocomposites. *Scientific Reports*, 14(1), 655. <https://doi.org/10.1038/s41598-023-51064-6> Web of Science
4. Ahn, J. Y., Kim, Y. J., Lee, J. H., Singh, R. K., & Lee, H. H. (2024). Mechanophysical and anti-adhesive properties of a nanoclay-containing PMMA denture resin. *ACS Biomaterials Science & Engineering*, 10(4), 2151-2164. <https://doi.org/10.1021/acsbiomaterials.3c01817> Web of Science
5. Kim, S., Kim, D., Kim, Y., Yang, H., Lee, H., Kang, J., ... & Park, S. (2024). Charge Separation Induced by Asymmetric Surface Charge Effects in Quasi-Solid State Electrolyte for Sustainable Anion Storage. *Advanced Energy Materials*, 14(47), 2402293. <https://doi.org/10.1002/aenm.202402293>
6. Abd-Elsalam, K. A., Mehmood, M. A., Ashfaq, M., Abdelkhalek, T. E., Hassan, R. K., & Ravichandran, M. (2024). Liquid nanoclay: Synthesis and applications to transform an arid desert into fertile land. *Soil Systems*, 8(3), 73. <https://doi.org/10.3390/soilsystems8030073>
7. Necolau, M. I., Balanuă, B., Frone, A. N., Radu, I. N., Gradisteanu-Pircalabioru, G., & Damian, C. M. (2024). Combined Thermomechanical Effect of Graphene Oxide and Montmorillonite on Biobased Epoxy Network Formation for Coatings. *ACS omega*, 9(7), 8297-8307. <https://doi.org/10.1021/acsomega.3c09059> Web of Science
8. Thabet, A., A. Al Mufadi, F., & Ebnaalwaled, A. A. (2024). Synthesis and measurement of optical light characterization for modern cost-fewer polyvinyl chloride nanocomposites thin films. *Transactions on Electrical and Electronic Materials*, 25(1), 98-109. <https://doi.org/10.1007/s42341-023-00489-x>
9. Gillela, S., Yadav, S. M., Kelkar, B. U., Sihag, K., Dangtungee, R., Bhuyar, P., Seng Hua Lee, Seng Hua Lee, Widya Fatriasari, Eko Setio Wibowo & Sinha, A. (2024). Advancing thermoset polymer composites with nanoclay reinforcement: a comprehensive investigation within composite interfaces. *Composite Interfaces*, 31(12), 1615-1657. <https://doi.org/10.1080/09276440.2024.2373486>
10. Shelly, D., Singhal, V., Singh, S., Nanda, T., Mehta, R., Lee, S. Y., & Park, S. J. (2024). Exploring the Impact of Nanoclay on Epoxy Nanocomposites: A Comprehensive Review. *Journal of Composites Science*, 8(12), 506. <https://doi.org/10.3390/jcs8120506>
11. Jafarzadeh, S., Nooshkam, M., Qazanfarzadeh, Z., Oladzadabbasabadi, N., Strachowski, P., Rabiee, N., Kamyar Shirvanimoghaddam, Mehdi Abdollahi & Naebe, M. (2024). Unlocking the potential of 2D nanomaterials for sustainable intelligent packaging. *Chemical Engineering Journal*, 490, 151711. <https://doi.org/10.1016/j.cej.2024.151711>
12. Park, S., Na, C., Kang, S. S., Kwac, L. K., Kim, H. G., & Chang, J. H. (2024). Colorless and transparent polyimide nanocomposites using organically modified montmorillonite and mica. *Scientific Reports*, 14(1), 10670. <https://doi.org/10.1038/s41598-024-61331-9> Web of Science
13. Beftollahi, H., Dourandish, Z., Tajik, S., Jahani, P. M., Zaimbashi, R., Nejad, F. G., & Mohammadi, S. Z. (2024). Recent electrochemical applications of Two-Dimensional nanoclays based materials. *Microchemical Journal*, 207, 111908. <https://doi.org/10.1016/j.microc.2024.111908> Web of Science
14. Pandit, Y. K., Kumar, A., Mahto, V., Gopalakrishnan Nair, U., Matey, S., & Dhandi, M. (2024). Experimental Investigation of a Novel Alumina Nanomaterial Reinforced Particle Gel System for Water Shut-off Jobs in Heterogeneous Reservoirs: Fabrication, Characterization, and Performance Assessment. *Industrial & Engineering Chemistry Research*, 63(36), 15665-15682. <https://doi.org/10.1021/acs.iecr.4c02032> Web of Science
15. Chen, Z., Li, J., Li, Z., Wang, J., Li, Q., Lin, J., Lipun Zhang & He, S. (2024). Rubber/clay nanocomposites prepared by compounding clay gel with hydrophilically treated styrene-butadiene rubber. *European Polymer Journal*, 213, 113137. <https://doi.org/10.1016/j.eurpolymj.2024.113137>
16. Tuna, B. (2024). Chain extension of poly (butylene terephthalate)/organically modified clay nanocomposites. *Engineering Science and Technology, an International Journal*, 60, 101910. <https://doi.org/10.1016/j.estch.2024.101910>
17. Mokhtar, A., Asli, B., Abdelkrim, S., Hachemaoui, M., Boukoussa, B., Sassi, M., Gianluca Viscusi & Abboud, M. (2024). Polymer/Clay Nanocomposites as Advanced Adsorbents for Textile Wastewater Treatment. *Minerals*, 14(12), 1216. <https://doi.org/10.3390/min14121216>
18. Hasan, R., Pande, S., Bhalerao, P., Salunkhe, S., Cep, R., & Nasr, E. A. (2024). Effect of MMT-HNT Hybrid Nanoclay on Properties of UHMWPE Composite. *International Journal of Polymer Science*, 2024(1), 9141155. <https://doi.org/10.1155/2024/9141155>
19. Mamytbekov, G. K., Danko, I. V., Bektsultanov, Z. I., Nurtazin, Y. R., & Bannych, V. I. (2024). Synthesis and Characterization of Shungite Modified Poly-N-Ninylpyrrolidone–Agarose Composites for Medical Application, *ACS Omega*, 9(41), 42297 - 42308. <https://doi.org/10.1021/acsomega.4c04828>
20. Ismail, M. A., & Nasr, G. M. (2024). Organo-modified nanoclays induce changes in the physical properties of polyamide 66. *Polymer Bulletin*, 81(1), 549-575. <https://doi.org/10.1007/s00289-023-04675-y>
21. Altaf, M., Ahmed, M. N., Iqbal, A., & Khan, A. A. (2024). Synthesis and characterization of novel organoclay-epoxy based flame retardant nanocomposites. *Journal of Reinforced Plastics and Composites*, 07316844241272956. <https://doi.org/10.1177/07316844241272956> Web of Science
22. e Silva, M. D. C. S., de Sousa, G. F., das Virgens Santana, M., Tsumura, W. G., Stocco, T. D., & Lobo, A. O. (2024). Tailoring mechanical properties of printed GelMA scaffolds with multilayers of PLA/Laponite nanocomposite fibers. *Materials Letters*, 364, 136314. <https://doi.org/10.1016/j.matlet.2024.136314>
23. Hasan, R., Pande, S., Bhalerao, P., & Sinha, D. K. (2024). A study of UHMWPE-MMT composite on mechanical and biocompatibility properties. *Journal of Polymer Research*, 31(7), 196. <https://doi.org/10.1007/s10965-024-04049-6>
24. Kordzangeneh, D., Khoramishad, H., & Fatolahi, A. R. (2024). Post-creep residual tensile properties of multi-walled carbon nanotube/epoxy nanocomposites. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, 238(11), 14644207241239587. <https://doi.org/10.1177/14644207241239587> Web of Science
25. Kamal, R. S., Farag, R. K., Raju, G., & Appaturi, J. N. (2024). A nanocopper oxide supported on montmorillonite: synthesis and characterization as a green viscosity index improver additive. *Chemical Papers*, 78(12), 7141-7149. <https://doi.org/10.1007/s11696-024-03595-z> Web of Science
26. Hernández, O., Hernández, M. L., Castillo, R., Campillo, B. F., Verduzco, J. A., Sedano, A., & Villanueva, H. (2024). Effects of plasma accelerated ageing on a co-polymer reinforced with nanoclay. *Bulletin of Materials Science*, 47(3), 177. <https://doi.org/10.1007/s12034-024-03171-x> Web of Science
27. Atanasova, M. T., Focke, W. W., & Loots, T. (2024). Self-assembled rectorite films with remarkable mechanical performance: preparation, structural characterization, and properties. *Journal of Materials Science: Materials in Engineering*, 19(1), 17. <https://doi.org/10.1186/s40712-024-00161-z>

28. Mandour, H. S., Akelah, A., Rehab, A., & Abdelhakem, H. (2024). Encapsulation of organomontmorillonite platelets through miniemulsion polymerization inside poly (methyl methacrylate) latex particles: synthesis and thermal properties. *Delta Journal of Science*, 49(2), 82-98.
29. Bakhsandeh, B., Mohammadzadeh, F., Haghighi, D., & Mohammadpour, Z. (2024). Clay-reinforced PVC composites and nanocomposites. *Helijon*, 10(7), e29196. <https://doi.org/10.1016/j.helijon.2024.e29196>
8. A Ene, O Bogdevich, A Sion, **Levels and distribution of organochlorine pesticides (OCPs) and polycyclic aromatic hydrocarbons (PAHs) in topsoils from SE Romania**, *Science of the total environment* 439, 76-86, 2012 (85) [Web of Science](#)
Web of Science:
1. Alqarni, A. M. (2024). Analytical Methods for the Determination of Pharmaceuticals and Personal Care Products in Solid and Liquid Environmental Matrices: A Review. *Molecules*, 29(16), 3900. <https://doi.org/10.3390/molecules29163900> [Web of Science](#)
 2. Pănescu, V. A., Begy, R., Enel, A., Timar-Gabor, A., & Beldean-Galea, M. S. (2024). Polyaromatic hydrocarbon and chlorinated pesticides pollution in Iacob Lake of Romania: radionuclide-dated sediments and chromatographic analysis. *Toxicological & Environmental Chemistry*, 106, issue 1-10, Pages 146-167. <https://doi.org/10.1080/02772248.2024.2430286> [Web of Science](#)
 3. Tang, S. Z., Chen, Z. X., Hao, Q. R., Hu, Y. P., Wang, J. L., Qin, D. L., Peng Wang & Wang, H. T. (2024). Detection of PCBs and OCPs in the Irtysh River Water (GC-MS/MS) and Ecological Risk Assessment. *MethodsX*, 13, 102944. <https://doi.org/10.1016/j.mex.2024.102944>
 4. M. Hagner, S. Rämö, H. Soinne, V. Nuutilainen, R. Muili-Mäkelä, J. Heikkilä, J. Hyvönen, K. Ohralahti, V. Silva, R. Osman, V. Geissen, C.J. Ritsema, R. Keskinen, Pesticide residues in boreal arable soils: Countrywide study of occurrence and risks, *Environmental Pollution*, Volume 357, 2024, 124430, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2024.124430>
 5. Pănescu, V.-A., Bocoș-Bîntințan, V., Herghelegiu, M.-C., Coman, R.-T., Berg, V., Lyche, J. L., & Beldean-Galea, M. S. (2024). Pollution Assessment with Persistent Organic Pollutants in Upper Soil of a Series of Rural Roma Communities in Transylvania, Romania, Its Sources Apportionment, and the Associated Risk on Human Health. *Sustainability*, 16(1), 232. <https://doi.org/10.3390/su16010232>
9. E Zubcov, N Zubcov, A Ene, L Biletschi, **Assessment of copper and zinc levels in fish from freshwater ecosystems of Moldova**, *Environmental Science and Pollution Research* 19 (6), 2238-2247, 2012 (76) [Web of Science](#)
Web of Science
1. Younis, A. M., Hanafy, S., Elkady, E. M., Alluhayb, A. H., & Alminderej, F. M. (2024). Assessment of health risks associated with heavy metal contamination in selected fish and crustacean species from Temsah Lake, Suez Canal. *Scientific Reports*, 14(1), 18706. <https://doi.org/10.1038/s41598-024-69561-7>
 2. Kumar, S., Das, D., Sarbjana, A., & Chakraborty, S. B. (2024). Zinc modulates hypothalamo-pituitary-gonadal-liver axis to impair reproduction in female *Mystus vittatus* (Bloch, 1794). *Environmental Science and Pollution Research*, volume 31, pages 42212-42229. <https://doi.org/10.1007/s11356-024-33884-9>
 3. Kumar, S., Sarbjana, A., & Chakraborty, S. B. (2024). Toxic Effects of Lead Exposure on Hypothalamo-Pituitary-Ovarian Axis in Striped Dwarf Catfish, *Mystus vittatus* (Bloch, 1794). In *Proceedings of the Zoological Society*, 77, pages: 199 – 213. <https://doi.org/10.1007/s12595-024-00522-8>
 4. Milošković, A., Radenković, M., Kojadinović, N., Veličković, T., Đuretanović, S. and Simić, V., 2024. Potentially toxic elements in pikeperch (*Sander lucioperca* L.) from the Gruža reservoir: Health risk assessment related to fish consumption by the general population and fishermen. *Journal of the Serbian Chemical Society*, 89(12), 1647-1659. <https://doi.org/10.2298/JSC240110044M>
10. HMH Zakaly, HA Saudi, HO Tekin, M Rashad, SAM Issa, YS Rammah, AI Elazaka, MM Hessien, **Antoaneta Ene, Glass fabrication using ceramic and porcelain recycled waste and lithium niobate: Physical, structural, optical and nuclear radiation attenuation properties**, *Journal of Materials Research and Technology* 15, 4074-4085, 2021 (69) [Web of Science](#)
Web of Science
1. Khatibani, A. B., Khoshhal, A. R., Tochaei, E. B., Jamnani, S. R., & Moghaddam, H. M. (2024). Physical and gamma radiation shielding features of Sm₂O₃/graphene nanoparticles: A comparison between experimental and simulated gamma shielding capability. *Inorganic Chemistry Communications*, 167, 112772. <https://doi.org/10.1016/j.jinoche.2024.112772> [Web of Science](#)
 2. Zakaly, H. M., Issa, S. A., Saudi, H. A., & Soliman, T. S. (2024). Decoding the role of bismuth oxide in advancing structural, thermal, and nuclear properties of [B₂O₃-Li₂O-SiO₂]-Nb₂O₅ glass systems. *Radiation Physics and Chemistry*, 223, 111984. <https://doi.org/10.1016/j.radphyschem.2024.111984> [Web of Science](#)
 3. Alajerami, Y. S., Mhareb, M. H. A., Sayyed, M. I., Hamad, M. K., Kodeh, F., Rashad, M., & Mitwalli, M. (2024). Comprehensive study for radiation shielding features for Bi₂O₃-B₂O₃-ZnO composite using computational radioanalytical Phy-X/PSD, MCNP5, and SRIM software. *Scientific Reports*, 14(1), 17700. <https://doi.org/10.1038/s41598-024-67571-z>
 4. Gouda, M. M., Osman, A. F., Awad, R., & Badawi, M. S. (2024). Enhanced radiation shielding efficiency of polystyrene nanocomposites with tailored lead oxide nanoparticles. *Scientific Reports*, 14(1), 19970. <https://doi.org/10.1038/s41598-024-69510-4> [Web of Science](#)
 5. Khalil, H. F., Issa, S. A., Elsharkawy, S. G., Boudaghi Malidarreh, R., Gad, S., Badawi, A., Fatma Fakhry & Zakaly, H. M. (2024). Advancing ZMF-spinel ferrites with Gd³⁺ doping: structural, magneto-optical enhancements, and superior gamma-ray shielding for high-tech applications. *Journal of Sol-Gel Science and Technology*, 112(3), 898-921. <https://doi.org/10.1007/s10971-024-06520-8> [Web of Science](#)
 6. Khoshhal, A. R., Khatibani, A. B., Tirehdast, Z., Shaddoust, M., & Nirouei, M. (2024). Evaluation of experimental and simulated gamma ray shielding ability of ZnCo₂O₄ and ZnCo₂O₄/graphene nanoparticles. *Optical Materials*, 156, 115953. <https://doi.org/10.1016/j.optmat.2024.115953> [Web of Science](#)
 7. Mhareb, M. H. A., Mekki, A., Alwabsi, A., Almaimouni, A., Thabit, H. A., Alshwaira, N., Istbrq Ahmad Alsaleh & Al-Dhahi, F. A. (2024). X-ray photoelectron spectroscopy, structural, and radiation shielding properties for transparent borosilicate glasses. *Optical Materials*, 152, 115488. <https://doi.org/10.1016/j.optmat.2024.115488> [Web of Science](#)
 8. Zakaly, H. M., Abouhaswa, A. S., Issa, S. A., Almousa, N., & Tekin, H. O. (2024). Synthesis, physical, optical, and transmission properties of terbium oxide-reinforced quinary borate glasses for radiation protection. *Ceramics International*, 50(24), 55546-55555. <https://doi.org/10.1016/j.ceramint.2024.10.415> [Web of Science](#)
 9. Alsharif, M. A., Darwish, A. A. A., Alghamdi, N., Alfadhl, S., Khasim, S., Ahmed, S., & Hamdalla, T. A. (2024). Synergistic Enhancements of Zn-ZIF with Nano Zinc Oxide for Hydrogen Adsorption, Energy Storage, and Photocatalytic Technologies. *Ceramics International*, Volume 50, Issue 22, Part C, Pages 47677-47686. <https://doi.org/10.1016/j.ceramint.2024.09.113> [Web of Science](#)
 10. Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Koubisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*, 5 (22) , pp.8864-8877 <https://doi.org/10.1039/d3ma01062g>
 11. Darwish, M. A., Salem, M. M., Zakaly, H. M., Abd-Elaziem, W., Abou Halaka, M. M., Eid, M. S., Eman N. Serag, M. Khalid Hossain, Osama M. Hemeda, H. M. Badran & Elmekawy, A. (2024). Perovskite ceramics: the impact of lanthanum doping on the structural, radiation shielding and vibrational characteristics of lead titanate. *Applied Physics A*, 130(5), 348. <https://doi.org/10.1007/s00339-024-07485-9> [Web of Science](#)
 12. El-Khayatt, A. M., & Saudi, H. A. (2024). Green approach for conversion of hazardous red mud into an efficient transparent neutron and gamma-ray shield. *Radiation Physics and Chemistry*, 215, 111339. <https://doi.org/10.1016/j.radphyschem.2023.111339>

13. Satyarthi, S. K., Singh, V. P., Verma, H., & Singh, A. K. (2024). Electrical and optical properties of environmental friendly Li (1-x) Sm x/NbO₃ ceramics for high-temperature energy storage applications. *Energy Storage*, 6(4), e642. <https://doi.org/10.1002/est.2.642> Web of Science
14. Biradar, S., Chandrashekara, M. N., Dinkar, A., Devidas, G. B., Bennal, A. S., Sayyed, M. I., & Es-soufi, H. (2024). A multifaceted study of BaO-PbO-WO₃ glasses doped with Bi₂O₃: Insights from physical, thermal, structural, mechanical and optical analyses towards improved shielding properties. *Ceramics International*, 50(17), Part A, pages 29332-29345. <https://doi.org/10.1016/j.ceramint.2024.05.227> Web of Science
15. Güler, Ö., Yilmaz, D., Kanca, M. S., Edalati, K., & Taşgin, Y. (2024). Radiation shielding properties of composites of TiZrNbHfTa refractory high entropy alloy reinforced with TiZrNbHfTaO_x high-entropy oxide. *Journal of Alloys and Compounds*, 995, 174815. <https://doi.org/10.1016/j.jallcom.2024.174815>
16. Mostafa, A. M. A., Uosif, M. A. M., Alrowaili, Z. A., Issa, S. A., Ivanov, V. Y., & Zakaly, H. M. (2024). Exploring the potential of strontium oxide-enriched borate bioactive glass as a bone graft material: Comprehensive analysis of physical characteristics and gamma shielding properties. *Radiation Physics and Chemistry*, 218, 111641. <https://doi.org/10.1016/j.radphyschem.2024.111641> Web of Science
17. Abulyazied, D. E., Issa, S. A., Saudi, H. A., Abomostafa, H. M., & Zakaly, H. M. (2024). Dysprosium-Enriched Polymer Nanocomposites: Assessing Radiation Shielding and Optical Properties. *Optical Materials*, 153, 115604. <https://doi.org/10.1016/j.optmat.2024.115604>
18. Hamdalla, T. A., Darwish, A. A. A., Khasim, S., Aljohani, M. M., Al-Ghamdi, S. A., El-Zaidia, E. F. M., & Alfadhl, S. (2024). Enhancing the optical and photoelectric efficiency of PEDOT/PSS thin film by incorporating activated biochar for photovoltaic applications. *Journal of Asian Ceramic Societies*, 1-10. <https://doi.org/10.1080/21870764.2024.2435091>
19. Saleh, A., Harqani, N. A., Al-Ghamdi, W., Osman, K. T., & Elshoukrof, A. S. M. (2024). The role of MoO₃ on the physical, elasto-mechanical and nuclear shielding efficiency of barium-boro-bismuthate glass system: Comparative investigation. *Materials Chemistry and Physics*, 322, 129574. <https://doi.org/10.1016/j.matchemphys.2024.129574> Web of Science
20. Nasaruddin, N. F. S., Radzi, N. A. M., Ramli, R. M., & Azman, N. Z. N. (2024). Fabrication of ZnO/Bi₂O₃/PVA coated glass for X-ray detection and measurement. *Radiation Physics and Chemistry*, 222, 111857. [Web of Science](#)
21. Bo, T. L., Yang, X. H., & Huang, Z. M. (2024). An empirical model for prediction of centimeter wave attenuation during haze event considering particle humidity and charge. *Journal of Atmospheric and Solar-Terrestrial Physics*, 261, 106296. <https://doi.org/10.1016/j.jastp.2024.106296>
22. Cao, D., Bourham, M., & Yang, G. (2024). Bi₂O₃-ZrO₂ Polymer Composites: Evaluation of Structural, Chemical, and γ-ray and Charged Particle Shielding Properties. *ACS Applied Engineering Materials*, 2(7), 1966-1975. <https://doi.org/10.1021/acsaenm.4c00337> Web of Science
23. Alam, A., Khattak, S. A., Rooh, G., Albargi, H. B., Khan, A., Khan, N., Irfan Ullah, Syed Zulfiqar, Tahirzeb Khan & Khan, G. (2024). Investigation of Strontium/Barium Silicate Glasses through MCNPX and Phy-X for X-rays Shielding. *Silicon*, 16(16), 5833-5839. <https://doi.org/10.1007/s12633-024-03109-2>
24. Gomaa, H. M., Saudi, H. A., AL-Maqate, F. G., Zahran, H. Y., & Yahia, I. S. (2024). Structural topology, optical properties, and radiation shielding of NiCl₂-doped lead arseborate glass. *Optical and Quantum Electronics*, 56(9), 1403. <https://doi.org/10.1007/s11082-024-07334-2>
25. Zhao, J., Sun, Y., Zhang, Y., Li, Z., Zhao, H., & Wang, Q. (2024). Theoretical Calculation of Gamma-Ray and Neutron Shielding Properties for CsPbBr₃-Polypropylene Composite Material. *Nuclear Technology*, 211(2), pages 214 - 244. <https://doi.org/10.1080/00295450.2024.2323257> Web of Science

11. G ALMisned, W Elshami, SAM Issa, G Susoy, HMH Zakaly, M Algethami, YS Rammah, Antoaneta Ene, SA Al-Ghamdi, Awad A Ibraheem, HO Tekin, Enhancement of gamma-ray shielding properties in cobalt-doped heavy metal borate glasses: the role of lanthanum oxide reinforcement, Materials 14 (24), 7703, 2021 (53) Web of Science

Web of Science

1. Alzahrani, A. S., Aloraini, D. A., Wahab, E. A., & Shaaban, K. S. (2024). Investigation of the structural, elastic, and radiation shielding properties of the SiO₂-Pb₃O₄-ZnO-Y₂O₃ glass system. *Silicon*, 16(6), 2401-2413. <https://doi.org/10.1007/s12633-024-02846-8> Web of Science
2. Sayyed, M. I., Mhareb, M. H. A., Hamad, M. K., Kadhim, A. J., Alsafi, H. M., Mahmoud, K. A., & Kaky, K. M. (2024). Effects of MoO₃ on the structural, physical, mechanical, optical, and ionizing shielding of borate-germanate-telluride glass system. *Ceramics International*, 50(22), 46008-46017. <https://doi.org/10.1016/j.ceramint.2024.08.442> Web of Science
3. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., Shaaban, S. M., Rammah, Y. S., Shams, M. S., R. A. Elsad, A. M. A. Mahmoud, Yehya I. Mesalam & Nabil, I. M. (2024). Optical and gamma-ray attenuation of cobalt and lanthanum-doped sodium zinc lead borate glass. *Journal of Materials Science: Materials in Electronics*, 35(21), 1458. <https://doi.org/10.1007/s10854-024-13168-1>
4. Shaaban, K. S., Alsaif, K., Aloraini, D. A., Al-Saleh, W. M., Almutairi, H. M., & Assem, E. E. (2024). Influence of La₂O₃ on Mechanical Properties and Radiation-Shielding Performance of Magnesium Beryllia-Borosilicate Glass System. *Silicon*, 16, pages 2899 – 2911. <https://doi.org/10.1007/s12633-024-02897-x> Web of Science
5. Zakaly, H. M., Issa, S. A., Saudi, H., Almousa, N., Shaaban, E. R., & Hassan, A. M. (2024). Evaluation of the structural, optical, and γ-attenuation properties of Holmium Dolomite Glass for high-transmittance optical devices. *Optical Materials*, 149, 114938. <https://doi.org/10.1016/j.optmat.2024.114938>
6. Almousa, N., Malidarreh, R. B., Issa, S. A. M., & Zakaly, H. M. (2024). Synergistic effects of Gd₂O₃ and SiO₂ in enhancing the acoustic, mechanical, and shielding qualities of borate glasses. *Radiation Physics and Chemistry*, 224, 112060. <https://doi.org/10.1016/j.radphyschem.2024.112060>
7. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
8. Hanfi, M. Y., Sayyed, M. I., Rashad, M., Mahmoud, K. A., & Maghrbi, Y. (2024). Influence of ZnO variation on glass characteristics: physical, mechanical properties and radiation shielding. *Ceramics International*, 50(24), 53073-53082. <https://doi.org/10.1016/j.ceramint.2024.10.156>
9. Al-Buraihi, M. S., Alzahrani, J. S., Alrowaili, Z. A., Hammoud, A., Stroganova, E. V., Alomairy, S., & Olarinoye, I. O. (2024). Effect of low concentrations of WO₃ on synthesis, structural, physical, optical, neutron attenuation, and charged particle absorption properties of B₂O₃+Na₂O+BaO glassy composites. *Ceramics International*, 50(24), 53162-53170. <https://doi.org/10.1016/j.ceramint.2024.10.166> Web of Science
10. Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Kouibisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*, 5 (22), pp.8864-8877 <https://doi.org/10.1039/d3ma01062g>
11. Alshehri, S. A., Maatouk, A., Almotawa, R. M., Basry, A. A. H., El Hassan, S. M. A., & Abu-Magd, A. A. (2024). Influence of La³⁺ ions on the structural, elastic, optical, and radiation shielding properties of Cr₂O₃-Doped heavy metal glasses. *Ceramics International*, volume 50, issue 21, Part C, pages 44467-44477. <https://doi.org/10.1016/j.ceramint.2024.08.294>
12. Tekin, H. O., ALMisned, G., Kilic, G. Ö. K. H. A. N., Ilik, E. R. K. A. N., Susoy, G., Elshami, W., & Issa, B. (2024). A critical assessment of the mechanical strength and radiation shielding efficiency of advanced Concrete composites and Vanadium Oxide-Glass container for enhanced nuclear waste management. *Results in Physics*, 64, 107901. <https://doi.org/10.1016/j.rinp.2024.107901>
13. Heiba, Z. K., Mohamed, M. B., Mouhammad, S. A., & Badawi, A. (2024). Controlling the structural, magnetic and shielding properties of Er₂O₃ nanostructures through cobalt doping. *Optical Materials*, 156, 115944. <https://doi.org/10.1016/j.optmat.2024.115944>

14. ALMisned, G. (2024). Exploring a monotonically non-decreasing behavioral function on shielding properties and transmission factors in borosilicate glasses through heavy metal oxide reinforcement. *Radiation Physics and Chemistry*, 214, 111262. <https://doi.org/10.1016/j.radphyschem.2023.111262>
15. Zenhom, K., Ebrahem, N. M., Mohammad, S. S., & Saudi, H. A. (2024). Role of La₂O₃ in enhancement the properties of the BaO–B₂O₃ glass system: optical and radiation shielding study. *Optical and Quantum Electronics*, 56(2), 167. <https://doi.org/10.1007/s11082-023-05692-x>
16. Alshehri, S. A., Siddiq, H. A., Madkhali, M. M., Almotawa, R. M., Zayed, H. S. S., & Abul-Magd, A. A. (2024). Optimization of Structural, Optical, and Shielding Properties of Ni²⁺/Ni³⁺-Doped Heavy Metal Borate Glasses via La³⁺ Doping. *Optical Materials*, 157, part 1, 116169. <https://doi.org/10.1016/j.optmat.2024.116169>
17. Kattel, R., Subedi, B., & Lamichhane, T. R. (2024). Evaluation of Sb₂O₃ influences on radiation shielding properties of Sb₂O₃–B₂O₃–Bi₂O₃–TeO₂ glass system using Phy-X/PSD and SRIM software. *International Journal of Environmental Science and Technology*, 21(3), 3317–3328. <https://doi.org/10.1007/s13762-023-05192-1>
18. Almousa, N., Issa, S. A., Salem, M. M., Darwish, M. A., Serag, E. N., Nazrin, S. N., & Zakaly, H. M. (2024). Tailoring perovskite ceramics for improved structure, vibrational behaviors and radiation protection: The role of lanthanum in PbTiO₃. *Optical Materials*, 152, 115543. <https://doi.org/10.1016/j.optmat.2024.115543>
19. Kheswa, B. V. Gamma radiation shielding properties of (x) BiO–(0.5–x) ZnO–0.2 BO–0.3 SiO glass system. *Nukleonika*, 69(1), 23–29. <https://doi.org/10.2478/nuka-2024-0003>
20. Almousa, N., Issa, S. A., Abouhaswa, A. S., & Zakaly, H. M. (2024). Improved radiation shielding efficiency and optical properties of borate glass by incorporating dysprosium (III) oxide. *Materials Today Communications*, 39, 109198. <https://doi.org/10.1016/j.mtcomm.2024.109198>
21. Devidas, A., Sankarappa, T., Malge, A., Heerasingh, M., Dyama, A., & Pallavi, J. (2024). Effect of Sm₂O₃ on thermal, optical, mechanical, gamma and neutron shielding properties of zinc-boro-vanadate glasses. *Physica Scripta*, 99(11), 115931. DOI 10.1088/1402-4896/ad8044
22. Kheswa, B. V. (2024). The study of the impact of Bi₂O₃ on the X-ray shielding efficacy of the new barium-magnesium-boro-tellurite ceramic system. *Physica Scripta*, 100(1). DOI 10.1088/1402-4896/ad94b0 Web of Science

12. HO Tekin, G ALMisned, G Susoy, HMH Zakaly, SAM Issa, G Kilic, Yasser Saad Rammah, Gandham Lakshminarayana, Antoaneta Ene, A detailed investigation on highly dense CuZr bulk metallic glasses for shielding purposes, Open Chemistry 20 (1), 69-80, 2022 (51) Web of Science

Web of Science

 1. Vedavyas, S., Nabil, I. M., Sekhar, K. C., Almousa, N., Issa, S. A., Shareefuddin, M., & Zakaly, H. M. (2024). Characterization and analysis of physical, optical, and radiation attenuation properties of vanadium-infused in cadmium lead borate tellurite glasses. *Optical Materials*, 150, 115157. <https://doi.org/10.1016/j.optmat.2024.115157>
 2. Alkarrani, H., ALMisned, G., & Tekin, H. O. (2024). Assessing the Efficacy of Some Heavy-Metal Infused Concrete Mixtures in Gamma-ray and Neutron Shielding applications. *Radiation Physics and Chemistry*, 223, 111988. <https://doi.org/10.1016/j.radphyschem.2024.111988> Web of Science
 3. ALMisned, G., Susoy, G., Baykal, D. S., Alomari, A. H., & Tekin, H. O. (2024). Evaluating the Efficacy of Multiple Concrete Compositions in Gamma Ray and Fast Neutron Shielding: Insights from MCNP 6.3 Monte Carlo Code. *Journal of Building Engineering*, 98, 111205. <https://doi.org/10.1016/j.jobe.2024.111205>
 4. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
 5. Tuncel, N., Akkurt, I., Atik, I., Malidarre, R. B., & Sayyed, M. I. (2024). Neutron-gamma shielding properties of chalcogenide glasses. *Radiation Physics and Chemistry*, 218, 111582. <https://doi.org/10.1016/j.radphyschem.2024.111582>
 6. Negm, H. H., Sdeek, A. A., & Ebrahim, A. A. (2024). A comprehensive investigation of the impact of NiO on the radiation attenuation characteristics of (CaO–Li₂O–NiO–SiO₂) glass structure. *Journal of Electronic Materials*, 53(2), 945–958. <https://doi.org/10.1007/s11664-023-10833-9>
 7. Alomari, A. H. (2024). Elucidating the multiple contributions of increasing Mo₃O₆ concentration on phosphate glasses for radiation safety applications. *Radiation Physics and Chemistry*, 218, 111593. <https://doi.org/10.1016/j.radphyschem.2024.111593> Web of Science
 8. Karpuz, N. (2024). Effect of La₂O₃ on Magnesium Borosilicate glasses glass for radiation shielding materials in nuclear application. *Radiation Physics and Chemistry*, 214, 111305. <https://doi.org/10.1016/j.radphyschem.2023.111305>
 9. ALMisned, G., Baykal, D. S., Alkarrani, H., Susoy, G., & Tekin, H. O. (2024). Advancing mechanical durability and radiation shielding properties in Silicon dioxide (SiO₂) glasses through various incorporations: A comparative analysis. *Results in Physics*, 61, 107717. <https://doi.org/10.1016/j.rinp.2024.107717>
 10. Baykal, D. S., Afaneh, F., Susoy, G., Al-Omari, S., ALMisned, G., Kilic, G. Ö. K. H. A. N., Z. Y. Khattari , Bashar Issa & Tekin, H. O. (2024). Enhancing mechanical, physical, radiation attenuation properties in alumino-barium-titanium-calcium-lithium glasses for nuclear applications: The pivotal role of TiO₂ additives. *Radiation Physics and Chemistry*, 217, 111507. <https://doi.org/10.1016/j.radphyschem.2023.111507>
 11. Bawazeer, O. (2024). Structure and gamma attenuation behavior of copper ions in host glass from the system (P₂O₅–LiF–CaF₂). *Radiation Physics and Chemistry*, 222, 111863. <https://doi.org/10.1016/j.radphyschem.2024.111863>
 12. Emikone, S., Akkurt, I., & Sayyed, M. I. (2024). The radiation attenuation coefficients (RAC) of barite coated fabric for 137Cs and 60Co sources. *Journal of Radiation Research and Applied Sciences*, 17(1), 100797.
 13. Alomari, A. H., & Al-Qahtani, S. M. (2024). Enhanced gamma shielding properties of borosilicate glasses with Gd₂O₃ addition: A theoretical study using Phy-X/PSD and XCOM programs. *Journal of Radiation Research and Applied Sciences*, 17(3), 100996.
 14. ALMisned, F. (2024). Computation of gamma-ray buildup factors for (25–x) CaF₂–xAl₂O₃–15Bi₂O₃–59B₂O₃–CuO glasses. *Radiation Physics and Chemistry*, 214, 111275. <https://doi.org/10.1016/j.jrras.2023.100797>

13. HO Tekin, G ALMisned, HMH Zakaly, A Zamil, D Khoucheich, G Bilal, Lubna Al-Sammarraie, Shams AM Issa, Mohammed Sultan Al-Buriabi, Antoaneta Ene, Gamma, neutron, and heavy charged ion shielding properties of Er³⁺-doped and Sm³⁺-doped zinc borate glasses, Open Chemistry 20 (1), 130-145, 2022 (49) Web of Science

Web of Science

 1. Shaaban, K. S., Alzahrani, A. S., Aloraini, D. A., & Ismail, Y. A. (2024). Radiation attenuation and optical behaviors of glass system: 21SiO₂–49B₂O₃–13ZnO–(17–x) Na₂O–xWO₃. *Optical Materials*, 148, 114852. <https://doi.org/10.1016/j.optmat.2024.114852>
 2. Vedavyas, S., Nabil, I. M., Sekhar, K. C., Almousa, N., Issa, S. A., Shareefuddin, M., & Zakaly, H. M. (2024). Characterization and analysis of physical, optical, and radiation attenuation properties of vanadium-infused in cadmium lead borate tellurite glasses. *Optical Materials*, 150, 115157. <https://doi.org/10.1016/j.optmat.2024.115157>
 3. Shaaban, K. S., Alsafi, K., Aloraini, D. A., Al-Saleh, W. M., Almutairi, H. M., & Assem, E. E. (2024). Influence of La₂O₃ on mechanical properties and radiation-shielding performance of magnesium beryllia-borosilicate glass system. *Silicon*, volume 16, pages 2899 – 2911. <https://doi.org/10.1007/s12633-024-02897-x> Web of Science
 4. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>

5. Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Koubisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*, 5 (22), pp.8864-8877 <https://doi.org/10.1039/d3ma01062g>
6. Tunçel, N., Akkurt, I., Atik, I., Malidarre, R. B., & Sayyed, M. I. (2024). Neutron-gamma shielding properties of chalcogenide glasses. *Radiation Physics and Chemistry*, 218, 111582. <https://doi.org/10.1016/j.radphyschem.2024.111582>
7. Dulal, A., Upadhyay, D. R., Tajudin, S. M., & Khanal, R. (2024). Behavior of silver tellurite glasses against gamma rays, neutrons, and ions using theoretical and the PHITS Monte Carlo method. *Materials Research Express*, 11(7), 075202. DOI 10.1088/2053-1591/ad63fe [Web of Science](#)
8. Karpuz, N. (2024). Effect of La₂O₃ on Magnesium Borosilicate glasses glass for radiation shielding materials in nuclear application. *Radiation Physics and Chemistry*, 214, 111305. <https://doi.org/10.1016/j.radphyschem.2023.111305>
9. Boontueng, P., Pencharee, S., Mutuwong, C., Kaewkha, J., Thongjerm, P., Wonglee, S., S. Kothan, N., Intachai & Kobdaj, C. (2024). Optimizing the Composition of Barium-Borate Glasses for Enhancing Thermal Neutron Shielding Efficiency: Monte Carlo Simulation. *Radiation Physics and Chemistry*, 223, 111937. <https://doi.org/10.1016/j.radphyschem.2024.111937> [Web of Science](#)
10. Kheswa, B. V. (2024). Gamma radiation shielding properties of (x) BiO-(0.5-x) ZnO-0.2 BO-0.3 SiO glass system. *Nukleonika*, 69(1), 23-29. <https://doi.org/10.2478/nuka-2024-0003>
11. Emikonel, S., Akkurt, I., & Sayyed, M. I. (2024). The radiation attenuation coefficients (RAC) of barite coated fabric for 137Cs and 60Co sources. *Journal of Radiation Research and Applied Sciences*, 17(1), 100797. <https://doi.org/10.1016/j.jrras.2023.100797>
12. ALMISNED, F. (2024). Computation of gamma-ray buildup factors for (25-x) CaF₂-xAl₂O₃-15Bi₂O₃-59B₂O₃-CuO glasses. *Radiation Physics and Chemistry*, 214, 111275. <https://doi.org/10.1016/j.radphyschem.2023.111275>
13. Kheswa, B. V. (2025). The study of the impact of Bi₂O₃ on the X-ray shielding efficacy of the new barium-magnesium-boro-tellurite ceramic system. *Physica Scripta*, 100(1), 015902. [Web of Science](#)
14. ALMISNED, G., Sen Baykal, D., Elshami, W., Susoy, G., Kilic, G., & Tekin, H. O. (2024). A comparative analysis of shielding effectiveness in glass and concrete containers. *Open Physics*, 22(1), 20240019.
15. Wahab et al., [Role of MoO₃/ZnO substitutions on radiation shielding and mechanical characteristics of lead silicate glasses](#), JOURNAL OF OVONIC RESEARCH 20 (5) , pp.731-744

15. T Spanos, A Ene, C Stylianou Patronidou, C Xatzixristou, [Temporal variability of sewage sludge heavy metal content from Greek wastewater treatment plants](#), Ecological Chemistry and, Engineering. S 23 (2), 271-283, 2016 (45) [Web of Science](#)
[Web of Science](#)
 1. Paoliacci, B., Campo, R., Carretti, E., Severi, M., Lubello, C., & Lotti, T. (2024). Towards resource recovery-oriented solutions in agriculture exploiting structural extracellular polymeric substances (sEPS) extracted from aerobic granular sludge (AGS). *Chemical Engineering Journal*, 485, 149819. <https://doi.org/10.1016/j.cej.2024.149819>
 2. Madesh, S., Sudhakaran, G., Meenatchi, R., Guru, A., & Arockiaraj, J. (2024). Interconnected environmental challenges: heavy metal-drug interactions and their impacts on ecosystems. *Drug and Chemical Toxicology*, 47(6), 1-18. <https://doi.org/10.1080/01480545.2024.2342956> [Web of Science](#)
 3. Olejnik, D. (2024). Evaluation of the Heavy Metals Content in Sewage Sludge from Selected Rural and Urban Wastewater Treatment Plants in Poland in Terms of Its Suitability for Agricultural Use. *Sustainability*, 16(12), 5198. <https://doi.org/10.3390/su16125198>
 4. Ma, M., Zhang, S., Chen, Y., Chen, B., & Guo, L. (2024). Optimization of hydrogen-rich syngas from coal and sewage sludge co-gasification in supercritical water. *Chemical Engineering Journal*, 497, 154792. <https://doi.org/10.1016/j.cej.2024.154792> [Web of Science](#)
 5. Espinoza-Guillen, J. A., Alderete-Malpartida, M. B., Gallegos-Huamán, R. L., Paz-Rosales, Y. M., Domínguez-Vivar, R. M., & Bujaico-León, C. (2024). Ecological risk assessment and identification of sources of heavy metals contamination in sewage sludge from municipal wastewater treatment plants in the Metropolitan Area of Lima-Callao, Peru. *Environment, Development and Sustainability*, 26(1), 1559-1590. <https://doi.org/10.1007/s10668-022-02774-w>

16. G ALMISNED, HO Tekin, E Kavaz, G Bilal, SAM Issa, HMH Zakaly, A Ene, [Gamma, fast neutron, proton, and alpha shielding properties of borate glasses: a closer look on lead \(II\) oxide and bismuth \(III\) oxide reinforcement](#), Applied Sciences 11 (15), 6837, 2021 (42) [Web of Science](#)
[Web of Science](#)
 1. Sayyed, M. I., Abdel-Gawad, E. H., Hanafy, T. A., & Elsaifi, M. (2024). Experimental evaluation of radiation shielding characteristics of borate-based-glass system reinforced with titanium oxide. *Optical Materials*, 154, 115738. <https://doi.org/10.1016/j.optmat.2024.115738>
 2. Alomari, A. H. (2024). BaO-Doped Na₂O-CaO-P₂O₅ Bioactive Glasses: A closer look at radiation attenuation properties for medical applications. *Radiation Physics and Chemistry*, 223, 112019. <https://doi.org/10.1016/j.radphyschem.2024.112019>
 3. ALMISNED, G., Susoy, G., Baykal, D. S., Alomari, A. H., & Tekin, H. O. (2024). Evaluating the Efficacy of Multiple Concrete Compositions in Gamma Ray and Fast Neutron Shielding: Insights from MCNP 6.3 Monte Carlo Code. *Journal of Building Engineering*, 98, 111205. <https://doi.org/10.1016/j.jobe.2024.111205>
 4. Zakaly, H. M., Abouhaswa, A. S., Issa, S. A., Almousa, N., & Tekin, H. O. (2024). Synthesis, Physical, Optical, and Transmission Properties of Terbium oxide-reinforced Quinary Borate Glasses for Radiation Protection. *Ceramics International*, 50(24), 55546-55555. <https://doi.org/10.1016/j.ceramint.2024.10.415> [Web of Science](#)
 5. Alkarrani, H., ALMISNED, G., & Tekin, H. O. (2024). A benchmarking analysis on different rubber materials: towards customisation of lightweight and effective radiation protection solutions for aerospace and electronic applications. *Journal of Rubber Research*, 1-13. <https://doi.org/10.1007/s42464-024-00272-4>
 6. Alan, H. Y., ALMISNED, G., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., E. Ilik, Bahar Tuysuz, Selin Ece Topuzlar, Baki Akkus & Tekin, H. O. (2024). Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation. *Journal of the Australian Ceramic Society*, 60(3), 823-832. <https://doi.org/10.1007/s41779-023-00984-7>
 7. Mansy, M. S., El-Shamy, E. A., Khalil, K. F., Elawady, M. E., Abd El-Kader, H., & Malek, K. A. (2024). Impact of natural aggregates and some industrial wastes on radiation shielding properties of heavyweight concrete: experimental and theoretical study. *Radiation Physics and Chemistry*, 223, 112007. <https://doi.org/10.1016/j.radphyschem.2024.112007> [Web of Science](#)
 8. Alharshan, G. A., I. Elamy, M., Said, S. A., Mahmoud, A. M. A., Elsad, R. A., & Ebrahem, N. M. (2024). Dielectric and gamma ray shielding properties of lead-doped lithium-zinc-borosilicate glasses. *Journal of Electronic Materials*, 53(9), 5671-5681. <https://doi.org/10.1007/s11664-024-11234-2>
 9. Mursheed, M. N., El Sayed, M. E., Saleh, E. E., Alresheedi, F., & Algradee, M. A. (2024). Novel Li₂O-BaO-PbO-B₂O₃ glasses: physical, structural, optical, gamma ray shielding, and fast neutron features. *Optical and Quantum Electronics*, 56(4), 620. <https://doi.org/10.1007/s11082-024-06304-y>
 10. Güler, Ö, Kilic, G., Kavaz, E., Ilik, E., Guler, S. H., ALMISNED, G., & Tekin, H. O. (2024). First-ever Fusion of High Entropy Alloy (HEA) with Glass: Enhancing of critical properties of Zinc-Tellurite Glass through TiZrNbHfTaO_x incorporation. *Ceramics International*, volume 50, issue 20, part B, Pages 39927-39939. <https://doi.org/10.1016/j.ceramint.2024.07.375> [Web of Science](#)
 11. ALMISNED, G., Baykal, D. S., Alkarrani, H., Susoy, G., & Tekin, H. O. (2024). Advancing mechanical durability and radiation shielding properties in Silicon dioxide (SiO₂) glasses through various incorporations: A comparative analysis. *Results in Physics*, 61, 107717. <https://doi.org/10.1016/j.rinp.2024.107717>
 12. Alan, H. Y., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., Ilik, E., Sener Oktik, Baki Akkus, Ghada ALMISNED & Tekin, H. O. (2024). KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses. *Radiation Physics and Chemistry*, 218, 111637. <https://doi.org/10.1016/j.radphyschem.2024.111637>

13. Celik, I. C., Kamislioglu, M., Yorulmaz, N., Yasar, M. M., & Durgun, M. (2024). Case study of Er-and Dy-doped boron-aluminosilicate glasses on radiation shielding performance in the energy range 0.015–10 MeV with MCNP6. 2. *Radiation Physics and Chemistry*, 218, 111551. <https://doi.org/10.1016/j.radphyschem.2024.111551>
14. Alomari, A. H., & Al-Qahtani, S. M. (2024). Enhanced gamma shielding properties of borosilicate glasses with Gd2O3 addition: A theoretical study using Phy-X/PSD and XCOM programs. *Journal of Radiation Research and Applied Sciences*, 17(3), 100996. <https://doi.org/10.1016/j.jrras.2024.100996> Web of Science
15. D'Souza, A. N., Murari, M. S., Sayyed, M. I., Al-Ghamdi, H., Almuqrin, A. H., & Kamath, S. D. (2024). Comprehensive study on structural, optical, mechanical and radiation blocking nature of Eu³⁺-doped bismuth tellurite glasses. *Chemical Papers*, 78, pages 5773 - 5791. <https://doi.org/10.1007/s11696-024-03430-5>

17. A Ene, O Bogdevich, A Sion, T Spanos, **Determination of polycyclic aromatic hydrocarbons by gas chromatography-mass spectrometry in soils from Southeastern Romania**, *Microchemical Journal* 100, 36-41, 2012 (41) Web of Science
Web of Science

 1. Amiri, F. A., Amiri, N. A., Karimi, P., Eslami, A., Faravardeh, L., Rafiee, M., & Ghasemi, A. (2024). Bioaugmentation of Bio-Slurry Reactor Containing Pyrene Contaminated Soil by Engineered *Pseudomonas putida* KT2440. *Water, Air, & Soil Pollution*, 235(6), 355. <https://doi.org/10.1007/s11270-024-07186-2> Web of Science

18. G ALMIsned, DS Baykal, G Susoy, G Kilic, HMH Zakaly, A Ene, HO Tekin, **Determination of gamma-ray transmission factors of WO₃–TeO₂–B₂O₃ glasses using MCNPX Monte Carlo code for shielding and protection purposes**, *Applied Rheology* 32 (1), 166-177, 2022 (40) Web of Science
Web of Science

 1. Thabit, H. A., Sayyed, M. I., Okoh, F. O., Yasmin, S., & Kamislioglu, M. (2024). Impact of Bi2O3 on the glass system B2O3–TeO2–MgO–PbO on the purpose of radiation shielding efficacy. *Progress in Nuclear Energy*, 173, 105240. <https://doi.org/10.1016/j.pnucene.2024.105240>
 2. Alsaif, N. A., Al-Ghamdi, H., Elsad, R. A., Abdelghany, A. M., Shaaban, S. M., Rammah, Y. S., & Nabil, I. M. (2024). Fabrication, physical properties and γ-ray shielding factors of high dense B2O3–PbO–Na2O–CdO–ZnO glasses: impact of B2O3/PbO substitution. *Journal of Materials Science: Materials in Electronics*, 35(7), 534. <https://doi.org/10.1007/s10854-024-12290-4>
 3. Ekinci, N., Alsaif, N. A., Khattari, Z. Y., Rammah, Y. S., Aygün, B., Kurucu, Y., & Saritaş, S. (2024). Evaluation of lithium tetra borate glass-ceramics: Structural, physical and radiation safety properties using experimental and theoretical methods. *Nuclear Engineering and Technology*, 56(11), 4887-4894. <https://doi.org/10.1016/j.net.2024.06.053>
 4. Alfryyan, N., Alsaif, N. A., Al-Ghamdi, H., Abouhaswa, A. S., Rammah, Y. S., & El-Sayed, M. A. (2024). Boro-tellurite glasses reinforced with ZrO₂: Synthesis, structure, physical, optical characteristics as well as γ-ray shielding capacity. *Optical Materials*, 156, 115998. <https://doi.org/10.1016/j.optmat.2024.115998> Web of Science
 5. ALMIsned, G. (2024). Exploring a monotonically non-decreasing behavioral function on shielding properties and transmission factors in borosilicate glasses through heavy metal oxide reinforcement. *Radiation Physics and Chemistry*, 214, 111262. <https://doi.org/10.1016/j.radphyschem.2023.111262>
 6. Issa, S. A., Khandaker, M. U., Badawi, A., & Zakaly, H. M. (2024). Enhanced gamma-ray shielding capabilities of Bi–Se–Ge chalcogenide glasses: analytical and simulation insights. *Physica Scripta*, 99(9), 095308. DOI 10.1088/1402-4896/ad6c89
 8. Karpuz, N. (2024). Effect of La₂O₃ on Magnesium Borosilicate glasses glass for radiation shielding materials in nuclear application. *Radiation Physics and Chemistry*, 214, 111305. <https://doi.org/10.1016/j.radphyschem.2023.111305>
 9. Al-Ghamdi, H., Alsaif, N. A., Afaneh, F., El-Refaey, A. M., Elsad, R. A., Shams, M. S., & Khattari, Z. Y. (2024). Effect of iron ion doping on mechanical, dielectric properties, and radiation protection effectiveness of lead barium borate glasses. *Applied Physics A*, 130(1), 6. <https://doi.org/10.1007/s00339-023-07168-x>
 10. Irfan, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Investigation of the Optoelectronic, γ-Attenuation, and Thermodynamic Properties of Novel MnGa₂P₃H₄NO₁₄ for Energy Applications: A DFT Study. *International Journal of Quantum Chemistry*, 124(22), e27512. <https://doi.org/10.1002/qua.27512> Web of Science
 11. Alsaif, N. A., Alrebdwi, H. I., Elsad, R. A., Shams, M. S., El-Refaey, A. M., & Rammah, Y. S. (2024). PVC doped with BiNi0.1Fe0.9O₃ nano-sized perovskites: Preparation, physical, dielectric properties as well as γ-ray absorption and buildup factors. *Radiation Physics and Chemistry*, 219, 111681. <https://doi.org/10.1016/j.radphyschem.2024.111681> Web of Science
 12. Alfryyan, N., Al-Ghamdi, H., Alsaif, N. A., Sadeq, M. S., Abouhaswa, A. S., & Rammah, Y. S. (2024). Gd₂O₃-doped calcium borophosphate glasses for optical and medical applications: experimental and theoretical studies. *Applied Physics A*, 130(11), 1-15. <https://doi.org/10.1007/s00339-024-07941-6>
 13. Almisned, F. (2024). Computation of gamma-ray buildup factors for (25-x) CaF₂-xAl2O₃-15Bi2O₃-59B2O₃-CuO glasses. *Radiation Physics and Chemistry*, 214, 111275. <https://doi.org/10.1016/j.radphyschem.2023.111275>
 14. Ekinci, N., Kavaz, E., Alsaif, N. A., Rammah, Y. S., Saritaş, S., & Aygün, B. (2024). Investigation of structural, physical and radiation attenuation properties of lithium tetra-borate with Cr₂O₃ glass-ceramics: experimental and theoretical methods. *Journal of the Australian Ceramic Society*, 1-10. <https://doi.org/10.1007/s41779-024-01094-8>
 15. Khattari, Z. Y., Alfryyan, N., Alsaif, N. A., Al-Ghamdi, H., El-Hamalawy, A. A., Zakaly, H. M., Shams A.M. Issa & Rammah, Y. S. (2024). Physical, elasto-mechanical and neutron-radiation shielding of barium borate glasses with distinct PtO₂ concentrations. *Journal of the Australian Ceramic Society*, 1-8. <https://doi.org/10.1007/s41779-024-01092-w> Web of Science
 16. ALMIsned, G., Sen Baykal, D., Elshami, W., Susoy, G., Kilic, G., & Tekin, H. O. (2024). A comparative analysis of shielding effectiveness in glass and concrete containers. *Open Physics*, 22(1), 20240019. <https://doi.org/10.1515/phys-2024-0019>

 19. AE Abdel Gawad, A Ene, SG Skublov, AK Gavrilchik, MA Ali, MM Ghoneim, AV Nastavkin, **Trace element geochemistry and genesis of beryl from Wadi Nugrus, South Eastern Desert, Egypt**, *Minerals* 12 (2), 206, 2022 (39) Web of Science
Web of Science

 1. Fan, Z. W., Xiong, Y. Q., Brzozowski, M. J., Shao, Y. J., Gu, X. P., Anwar, M., & Ghoneim, S. M. (2024). Crystallographic insights and crystal fractionation simulations of alkali-and water-bearing beryl: Implications for magmatic-hydrothermal evolution and Be enrichment mechanisms. *Ore Geology Reviews*, 174, 106278. <https://doi.org/10.1016/j.oregeorev.2024.106278>
 2. Gawad, A. E. A., Hanfi, M. Y., Tawfik, M. N., Alqahtani, M. S., & Mira, H. I. (2024). Assessment of radioactivity levels and radiation hazards in building materials in Egypt. *Nuclear Engineering and Technology*, 56(2), 707-714. <https://doi.org/10.1016/j.net.2023.11.006> Web of Science
 3. Zhang, Z., Ji, Z., Ge, W., Yang, H., Wu, H., Zhu, Y., & Wang, Y. (2024). Linking beryllium mineralization to fluid-rock reactions: A case study of the Madumeng quartz vein-type beryllium mineralization in the Southern Great Xing'an Range, Northeast China. *Lithos*, volume 484 – 485, 107744. <https://doi.org/10.1016/j.lithos.2024.107744> Web of Science
 4. Nikopoulou, M., Karampelas, S., Hennebois, U., Gruss, P., Gaillou, E., Fritsch, E., ... & Delaunay, A. (2024). Microscopic, Spectroscopic and Chemical Analysis of Emeralds from Habachtal, Austria. *Minerals*, 15(1), 22. <https://doi.org/10.3390/min15010022>
 5. Khedr, M. Z., Saleh, G. M., Abdelfadil, K. M., Takazawa, E., Abdelrahman, K., Tamura, A., & El-Shafei, S. A. (2024). The Geology and Mineral Chemistry of Beryl Mineralization, South Eastern Desert, Egypt: A Deeper Insight into Genesis and Distribution. *Minerals*, 14(5), 465. <https://doi.org/10.3390/min14050465>

6. Ghoneim, M. M., Abdel Gawad, A. E., El-Dokouny, H. A., Dawoud, M., Panova, E. G., El-Lithy, M. A., & Mahmoud, A. S. (2024). Petrogenesis and Geodynamic Evolution of A-Type Granite Bearing Rare Metals Mineralization in Egypt: Insights from Geochemistry and Mineral Chemistry. *Minerals*, 14(6), 583. <https://doi.org/10.3390/min14060583>
7. Nikopoulou, M., Karampelas, S., Tsangaraki, E., Papadopoulou, L., Katsifas, C., Nazlis, I., Annareta Touloumtzidou, Vasilios Mellos & Kantiranis, N. (2024). Study of green-coloured gems of the Roman period from the collections of the Archaeological Museum of Thessaloniki (Greece) and their possible geographic origin. *Journal of Raman Spectroscopy*. <https://doi.org/10.1002/jrs.6701>

20. V Pintilie, A Ene, LP Georgescu, L Moraru, C Iticescu, **Measurements of gross alpha and beta activity in drinking water from Galati region, Romania**, Romanian Reports in Physics 68 (3), 1208-1220,2016 (39) [Web of Science](#)
Web of Science
 1. Iannone, A., Albanese, S., Guarino, A., Ambrosino, M., Germano, G., De Tullio, G., & Cicchella, D. (2024). Variation of total alpha and beta activities and Rn-222 concentrations in the water supply system of an Italian volcanic region: How safe is tap water for human consumption? *Journal of Hazardous Materials*, 470, 134229. <https://doi.org/10.1016/j.jhazmat.2024.134229> [Web of Science](#)
 2. Ho, P. L., Hung, L. D., Minh, V. T., Thanh, N. T. B., Van Chinh, D., Minh, L. H., Tran Thien Thanh& Van Tao, C. (2024). Assessment of physicochemical properties and radioactivity in groundwater at households living in bac Lieu province, vietnam. *Environmental Geochemistry and Health*, 46(10), 412. <https://doi.org/10.1007/s10653-024-02203-z> [Web of Science](#)
 3. Tăban, C. I., Sandu, A., Oancea, S., & Stoia, M. (2024). Gross alpha/beta radioactivity of drinking water and relationships with quality parameters of water from Alba county, Romania. *Romanian Jurnal of Physics*, 69(7-8). <https://doi.org/10.5927/RomJPhys.2024.69.806>
 4. Valli, N. S., Raju, M. K., Satyanarayana, G. V. V., Rathnaraju, M., VidyaSagar, D., & Das, N. L. (2024). Assessment of radioactivity levels and dose metrics in coastal drinking water sources of Odisha and Andhra Pradesh, India. *Journal of Radioanalytical and Nuclear Chemistry*, 1-13. <https://doi.org/10.1007/s10967-024-09840-9>

21. NM Moghazy, AM El-Tohamy, MM Fawzy, HA Awad, HMH Zakaly, Shams AM Issa, Antoaneta Ene, **Natural radioactivity, radiological hazard and petrographical studies on aswan granites used as building materials in Egypt**, Applied Sciences 11 (14), 6471, 2021 (37) [Web of Science](#)
Web of Science
 1. Zakaly, H. M., Awad, H. A., El Saeed, R. L., Issa, S. A., Elsaman, R., Khandaker, M. U., Hezam Al-awah, Douaa Fathy & Sami, M. (2024). Radiometric and petrographic characterization of El-Yatima granite: Evaluating radiological risks and mineralogical features. *Radiation Physics and Chemistry*, 224, 111992. <https://doi.org/10.1016/j.radphyschem.2024.111992>
 2. Seif, R. A., Ene, A., Zakaly, H. M., Sallam, A. M., Taalab, S. A., Fnais, M. S., Diaa A. Saadawi, Shaimaa A. Amer & Awad, H. A. (2024). Distribution of Heavy Metals along the Mediterranean Shoreline from Baltim to El-Burullus (Egypt): Consequences for Possible Contamination. *Minerals*, 14(9), 931. <https://doi.org/10.3390/min14090931>
 3. Azeem, U., Younis, H., Mehboob, K., Ajaz, M., Ali, M., Hidayat, A., & Muhammad, W. (2024). Radionuclide concentrations in agricultural soil and lifetime cancer risk due to gamma radioactivity in district Swabi, KPK, Pakistan. *Nuclear Engineering and Technology*, 56(1), 207-215. <https://doi.org/10.1016/j.net.2023.09.026> [Web of Science](#)
 4. Zakaly, H. M., Elsaman, R., Kamal, M., Issa, S. A., Abbasi, A., Shen, J., Atef El-Taher, Chee Kong Yap, Elsayed Abdelbaky & Seleem, E. M. M. (2024). Natural radiological risk assessment around archaeological sites, El-Dakhla Oasis (EDO), Egypt. *Journal of Radioanalytical and Nuclear Chemistry*, 333, 5335 - 5346. <https://doi.org/10.1007/s10967-024-09618-z> [Web of Science](#)
 5. El-Nahal, M. A., Alawy, M. K., & Elsaifi, M. (2024). Evaluation of radiological hazards associated with some Egyptian marble and granite rocks. *Scientific Reports*, 14(1), 28838. <https://doi.org/10.1038/s41598-024-80298-1>
 6. Gawad, A. E. A., Masoud, M. S., Khandaker, M. U., & Hanfi, M. Y. (2024). Radiological hazards assessment of associated with granitoid rocks in Egypt. *Nuclear Engineering and Technology*, Volume 56, Issue 6, pages 2239-2246. <https://doi.org/10.1016/j.net.2024.01.032>
 7. Abbasi, A., Issa, S. A., Mirekhtiary, F., Algethami, M., & Zakaly, H. M. (2024). Radioactivity concentration levels and potential radiotoxicity risk assessment of aquatic superfoods case study of algae supplements. *Marine Pollution Bulletin*, 205, 116610. <https://doi.org/10.1016/j.marpolbul.2024.116610> [Web of Science](#)
 8. Khasanov, S., Tukhtaev, U., Mamakulov, O., Safarov, A., & Afsharipour, S. (2024). Natural radionuclide profiles and radiological risks in soils and rocks of the Koytash–Ugam Range, Uzbekistan. *Environmental Monitoring and Assessment*, 196(9), 847. <https://doi.org/10.1007/s10661-024-13015-0>

22. SAM Issa, HMH Zakaly, HO Tekin, HA Saudi, A Badawi, M Pyshkina, Guljem Susoy, Ahmed I. Elazaka, Antoaneta Ene, **Exploring the FTIR, Optical and Nuclear Radiation Shielding Properties of Samarium-Borate Glass: A Characterization through Experimental and Simulation Methods**, Nanomaterials 11 (7), 1713, 2021 (37) [Web of Science](#)
Web of Science
 1. Khatibani, A. B., Khoshhal, A. R., Tochaei, E. B., Jamnani, S. R., & Moghaddam, H. M. (2024). Physical and gamma radiation shielding features of Sm₂O₃/graphene nanoparticles: A comparison between experimental and simulated gamma shielding capability. *Inorganic Chemistry Communications*, 167, 112772. <https://doi.org/10.1016/j.inoche.2024.112772> [Web of Science](#)
 2. Al-Buraihi, M. S., Kurtulus, R., Eke, C., Alomairy, S., & Olarinoye, I. O. (2024). An insight into advanced glass systems for radiation shielding applications: A review on different modifiers and heavy metal oxides-based glasses. *Heliyon*, 10, e40249
 3. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., Shaaban, S. M., Rammah, Y. S., Shams, M. S., ... & Nabil, I. M. (2024). Optical and gamma-ray attenuation of cobalt and lanthanum-doped sodium zinc lead borate glass. *Journal of Materials Science: Materials in Electronics*, 35(21), 1458. S. Al-Buraihi). Contents lists available at ScienceDirect Heliyon journal homepage: www.cell.com/heliyon <https://doi.org/10.1016/j.heliyon.2024.e40249>
 4. Almousa, N., Nabil, I. M., Issa, S. A., & Zakaly, H. M. (2024). Enhancing Radiation Shielding with Gadolinium (III) Oxide in Cerium (III) Fluoride-Doped Silica Borate Glass. *Science and Technology of Nuclear Installations*, 2024(1), 8910531. <https://doi.org/10.1155/2024/8910531>
 5. Hammoud, A., Alshahrani, B., Stroganova, E. V., Klimenko, V. A., Alomaryah, N., Alrowaili, Z. A., I.O. Olarinoye, Chahkrit Sriwunkum & Al-Buraihi, M. S. (2024). Synthesis, photoluminescence, Judd-Ofelt parameters, and high energy neutron/charged particle transmission efficiencies of Nd³⁺ ion-activated sodium-borate glasses. *Ceramics International*, 50(23), 49624-49633. <https://doi.org/10.1016/j.ceramint.2024.09.307> [Web of Science](#)
 6. Alghamdi, A. A., Sadeq, M. S., Abdel-Fattah, E., Qutub, M. A., & Abdo, M. A. (2024). Cr-substituted Mn-Zn ferrite nanoparticles: A study of optical, photocatalytic degradation, and radiation shielding evolution. *Optical Materials*, 155, 115904. <https://doi.org/10.1016/j.optmat.2024.115904>
 7. Rezoug, M. H., Zegadi, C., Nouri, A., & Nasr-Eddine, H. A. M. D. A. D. O. U. (2024). Enhancing Low-Temperature Sensor Applications: Synergistic Effects of Ni Doping and SnO₂ Interlayer on Spin-Coated ZnO Thin Films on Glass Substrate. *Optical Materials*, 157, part 2, 116272. <https://doi.org/10.1016/j.optmat.2024.116272>
 8. Zenhom, K., Ebrahem, N. M., Mohammad, S. S., & Saudi, H. A. (2024). Role of La₂O₃ in enhancement the properties of the BaO–B₂O₃ glass system: optical and radiation shielding study. *Optical and Quantum Electronics*, 56(2), 167.
 9. Sayyed, M. I., Almuqrin, A. H., & Mahmoud, K. A. (2024). Detailed investigations for mechanical and gamma-ray attenuation characteristics of B₂O₃-ZnO-BaO-TiO₂ glasses doped with PbO. *Journal of Materials Research and Technology*, 30, 3011- 3020. <https://doi.org/10.1016/j.jmrt.2024.04.035>

10. Althobaiti, M. G., Alosaimi, M. A., Alharthi, S. S., Alotaibi, A. A., & Badawi, A. (2024). Tailoring the optical performance of sprayed NiO nanostructured films through cobalt doping for optoelectronic device applications, *Optical Materials*, 151, 115341. <https://doi.org/10.1016/j.optmat.2024.115341>
11. Heiba, Z. K., Abozied, A. M., Badawi, A., Mouhammad, S. A., & Mohamed, M. B. (2024). The impact of sulfur deficiency on the structural, optical and photoluminescence properties of Zn0.75Cd0.25S quantum dots. *Applied Physics A*, 130(7), 503. <https://doi.org/10.1007/s00339-024-07667-5>
12. Badawi, A., Alharthi, S. S., Alotaibi, A. A., & Althobaiti, M. G. (2024). Investigation the Structure and Linear/Nonlinear Spectroscopic Performance of Fe: Co3O4/TiO2 Nanostructured Heterojunctions, *ECS Journal of Solid State Science and Technology*, 13(9), 093010. DOI 10.1149/2162-8777/abd79f
13. Kotb, I. E., Okasha, A., Zidan, N. A., & Marzouk, S. Y. (2024). Structural, photoluminescence, and optical characteristics of a Sm³⁺-doped lead borate–strontium–tungsten glass system: Evaluation of Judd–Ofelt intensity parameters and radiative properties, *Luminescence*, 39(3), e4714. <https://doi.org/10.1002/bio.4714> Web of Science

23. HO Tekin, Gulferm Susoy, Shams AM Issa, Antoaneta Ene, Ghada ALMisned, YS Rammah, Fatema T Ali, Merfat Algethami, Hesham MH Zakaly, **Heavy Metal Oxide (HMO) glasses as an effective member of glass shield family: A comprehensive characterization on gamma ray shielding properties of various structures**, *Journal of Materials Research and Technology* 18, 231-244, 2022 (36) Web of Science

Web of Science

1. Kanagaraj, B., Anand, N., Raj, S., & Lubloy, E. (2024). Advancements and environmental considerations in portland cement-based radiation shielding concrete: Materials, properties, and applications in nuclear power plants–review. *Cleaner Engineering and Technology*, 19, 100733. <https://doi.org/10.1016/j.clet.2024.100733> Web of Science
2. Shah, A. Z., Zaid, M. H. M., Matori, K. A., Yaakob, Y., Sarmani, A. R., & Hisam, R. (2024). Comprehensive study on structural, elastic and radiation shielding abilities of novel quaternary Bi2O3–TeO2–Li2O–Al2O3 glasses. *Progress in Nuclear Energy*, 171, 105191. <https://doi.org/10.1016/j.pnucene.2024.105191> Web of Science
3. Bakri, F., Gareso, P. L., Armynah, B., & Tahir, D. (2024). A Comparative Study of Glass-Based Material Counter to X-ray, Gamma-ray, and Proton and Neutron Radiation: A Review. *Radiation Physics and Chemistry*, 226, 112270. <https://doi.org/10.1016/j.radphyschem.2024.112270>
4. Alkarrani, H., ALMisned, G., & Tekin, H. O. (2024). Assessing the efficacy of some heavy-metal infused concrete mixtures in gamma-ray and neutron shielding applications. *Radiation Physics and Chemistry*, 223, 111988. <https://doi.org/10.1016/j.radphyschem.2024.111988> Web of Science
5. Aloraini, D. A., Abu-raia, W. A., & Saeed, A. (2024). An efficient attenuator for gamma rays and slow neutrons of elastic and transparent lead sodium zinc calcium borate glass. *Optical and Quantum Electronics*, 56(3), 340. <https://doi.org/10.1007/s11082-023-06000-3>
6. Kumari, S., Mishra, R. K., Parveen, S., Avinashi, S. K., Hussain, A., Kumar, S., Rakesh Kumar Gautam & Gautam, C. (2024). Fabrication, structural, and enhanced mechanical behavior of MgO substituted PMMA composites for dental applications. *Scientific Reports*, 14(1), 2128. <https://doi.org/10.1038/s41598-024-52202-4> Web of Science
7. Aldawood, S., Asemi, N. N., Kassim, H., Aziz, A. A., Saeed, W. S., & Al-Odayni, A. B. (2024). Gamma radiation shielding by titanium alloy reinforced by polymeric composite materials. *Journal of Radiation Research and Applied Sciences*, 17(1), 100793. <https://doi.org/10.1016/j.jrras.2023.100793>
8. ALMisned, G. (2024). Exploring a monotonically non-decreasing behavioral function on shielding properties and transmission factors in borosilicate glasses through heavy metal oxide reinforcement. *Radiation Physics and Chemistry*, 214, 111262. <https://doi.org/10.1016/j.radphyschem.2023.111262>
9. Thabit, H. A., Saeed, A., Abdulmalik, D. A., Bafeeqer, A., Naeem, H. S., & Sayyed, M. I. (2024). Enhancing gamma-ray shielding with Bi2O3-Enriched BTBi glasses: Optimal balance of attenuation and glass transparency. *Ceramics International*, 50(16), pages 28652-28661. <https://doi.org/10.1016/j.ceramint.2024.05.176> Web of Science
10. Wu, S., Zhang, W., & Yang, Y. (2024). Progress in Flexible and Wearable Lead-Free Polymer Composites for Radiation Protection. *Polymers*, 16(23), 3274 <https://doi.org/10.3390/polym16233274>. Web of Science
11. Abou Hussein, E. M., & Madbouly, A. M. (2024). Fabrication and characterization of different PbO borate glass systems as radiation-shielding containers. *Scientific Reports*, 14(1), 2638. <https://doi.org/10.1038/s41598-024-52071-x>
12. Alharshan, G. A., Ebrahem, N. M., Shaaban, S. M., Said, S. A., Elsad, R. A., Altohamy, A. A., Y. S. Rammah, & Ibraheem, F. (2024). Manufacturing, Optical, Dielectric, and Gamma-Attenuation Characteristics of Phosphate Glasses Doped with Lanthanum and Erbium. *Journal of Inorganic and Organometallic Polymers and Materials*, 1-28. <https://doi.org/10.1007/s10904-024-03441-5>
13. Mutuwong, C., Chaiphaksa, W., Rachniyom, W., Bootjomchai, C., Intachai, N., Cheewasukhanont, W., S. Tuscharoen, K. Srivongsa, S. Kothan & Kaewkha, J. (2024). Comparative study of radiation ionizing on the MRCP-AM phantom before and after using the Bi2O3 AlF3 CaO B2O3 shielding glass by PHITS Monte Carlo simulation. *Radiation Physics and Chemistry*, 223, 111881. <https://doi.org/10.1016/j.radphyschem.2024.111881>
14. Alharshan, G. A., Shaaban, S. M., Ebrahem, N. M., Said, S. A., Mesalam, Y. I., Mahmoud, A. M. A., ... & Mimouni, A. (2024). The antimony-doped phosphate glasses system's optical, radiation-shielding, and physical properties. *Optical and Quantum Electronics*, 57(1), 31. <https://doi.org/10.1007/s11082-024-07930-2>
15. Saudi, H. A., Anber, M. F., & Algendi, A. M. M. A. S. (2024). A Framework for Studying the Possibility of Using Basalt Cement as a Cladding Material for Indoor Spaces, *Inf. Sci. Lett.* 13, No. 2, 377-386.
16. Balamurali Kanagaraj, N. Anand, Samuel Raj, Eva Lubloy, Advancements and environmental considerations in portland cement-based radiation shielding concrete: Materials, properties, and applications in nuclear power plants– review, *Cleaner Engineering and Technology*, 19, 100733. <https://doi.org/10.1016/j.clet.2024.100733>
17. da Silva Gomes, L. M., de Araújo, A. L. S., Lavorante, A. F., Silva, W. E., & Belian, M. F. (2024). Aspectos Ambientais, Toxicológicos e Tecnológicos quanto à Utilidade Contemporânea do Cromo. *Revista Virtual de Química*, 16(6). <http://dx.doi.org/10.21577/1984-6835.20240050>

25. MM Salem, ER Kenawy, HMH Zakaly, A Ene, MM Azaam, TB Edries, Di Zhou, Marwa M Hussein, Anwer S Abd El-Hameed, Islam M Nabil, Moustafa A Darwish, **Electrospun PVDF/Barium hexaferrite fiber composites for enhanced electromagnetic shielding in the X-band range**, *Results in Physics* 53, 106975, 2023 (33)

Web of Science

1. Khalil, A., Bondouk, I. I., Allam, E. A., Nabil, I. M., Al-Abiad, M., Saudi, H., Atef El-Taher, Mohamed E. Mahmoud & Amar, A. (2024). A binary composite material of nano polyaniline intercalated with Nano-Fe2O3 for enhancing gamma-radiation-shielding properties: Experimental and simulation study. *Progress in Nuclear Energy*, 169, 105067. <https://doi.org/10.1016/j.pnucene.2024.105067>
2. Al-Ghamdi, H., Alsaif, N. A., Alfryyan, N., Rammah, Y. S., & Nabil, I. M. (2024). Investigation of gamma-ray and neutron protection competence of oxyfluoride aluminosilicate glasses reinforced with TbF3: Comparative study. *Radiation Physics and Chemistry*, 224, 112105. <https://doi.org/10.1016/j.radphyschem.2024.112105>
3. Vedavyas, S., Nabil, I. M., Sekhar, K. C., Almousa, N., Issa, S. A., Shareefuddin, M., & Zakaly, H. M. (2024). Characterization and analysis of physical, optical, and radiation attenuation properties of vanadium-infused in cadmium lead borate tellurite glasses. *Optical Materials*, 150, 115157. <https://doi.org/10.1016/j.optmat.2024.115157>
4. Alsaif, N. A., Al-Ghamdi, H., Elsad, R. A., Abdelghany, A. M., Shaaban, S. M., Rammah, Y. S., & Nabil, I. M. (2024). Fabrication, physical properties and γ-ray shielding factors of high dense B2O3-PbO-Na2O-CdO-ZnO glasses: impact of B2O3/PbO substitution. *Journal of Materials Science: Materials in Electronics*, 35(7), 534. <https://doi.org/10.1007/s10854-024-12290-4>

5. Negm, H. H., Allam, E. A., Nabil, I. M., Abdeltwab, E., Mostafa, M., & El-Taher, A. (2024). Exploring the potential of attapulgite clay composites containing intercalated nano-cadmium oxide and nano-nickel oxide for efficient radiation shielding applications. *Radiation Physics and Chemistry*, 225, 112149. <https://doi.org/10.1016/j.radphyschem.2024.112149>
6. Nabil, I. M., El-Samrah, M. G., Zorainy, M. Y., Zahran, H. Y., Mosleh, A. T., & Yahia, I. S. (2024). Influence of aluminum and vanadium oxides on copper borate glass: A physical/radiological study. *Nuclear Engineering and Technology*, 56(8), pages 3335-3346. <https://doi.org/10.1016/j.net.2024.03.034>
7. Almousa, N., Abouhaswa, A. S., Issa, S. A., Nabil, I. M., & Zakaly, H. M. (2024). Influence of titanium dioxide doping on the attenuation and optical characteristics of magnesium borate glass systems. *Ceramics International*, 50(13), 24156-24166. <https://doi.org/10.1016/j.net.2024.03.034>
8. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi2O3 modification: A comprehensive study. *Radiation Physics and Chemistry*, volume 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
9. Darwish, M. A., Hussein, M. M., Saafan, S. A., Abosheisha, H. F., Abd-Elaziem, W., Klygach, D. S., Sergei V. Trukhanov, Tatiana I. Zubar & Trukhanov, A. V. (2024). Modulating microwave attributes of Ba_{1-x}Sr_xTiO₃ nanoparticles: Insights into strontium concentration, structural intricacies and electromagnetic dynamics. *Nano-Structures & Nano-Objects*, 37, 101096. <https://doi.org/10.1016/j.nanoso.2024.101096>
10. Nabil, I. M., Mosleh, A. T., Allam, E. A., Alqahtani, F. F., Alzoubi, A. S., Alqahtani, M. S., M. S. Al-Kotb & Yahia, I. S. (2024). Lithium magnesium borosilicate glass: the impact of alternate doping with nano copper oxide and nano hematite on its structural, optical, and nuclear radiation shielding characteristics. *Journal of Materials Science: Materials in Electronics*, 35(12), 826. <https://doi.org/10.1007/s10854-024-12554-z>
11. Alsaif NA, Alfryyan N, Al-Ghamdi H, El-Refaei AM, Elsad RA, Shams MS, Rammah YS, Sadeq MS, Shaaban SM, Nabil IM. The impact of TiO₂ on physical, optical characteristics and shielding qualities against γ-ray features of titanium bismo-borate glasses. *Optical and Quantum Electronics*. 2024, 56(5):816. <https://doi.org/10.1007/s11082-024-06702-2>
12. Mostafa, A. M. A., Uosif, M. A. M., Issa, S. A., Zhukovsky, M., Alrowaili, Z. A., & Zakaly, H. M. (2024). Evaluation of photon, proton, and alpha interaction parameters of EDTMP_{Lu} and MDP_{Lu} medications used for some bone cancer. *Radiation Physics and Chemistry*, 216, 111419. <https://doi.org/10.1016/j.radphyschem.2023.111419>
13. Darwish, M. A., Salem, M. M., Zakaly, H. M., Abd-Elaziem, W., Abou Halaka, M. M., Eid, M. S., H.M.Badran & Elmekawy, A. (2024). Perovskite ceramics: the impact of lanthanum doping on the structural, radiation shielding and vibrational characteristics of lead titanate. *Applied Physics A*, 130(5), 348. <https://doi.org/10.1007/s00339-024-07485-9>
14. Darwish, M. A., Salem, M. M., Trukhanov, A. V., Abd-Elaziem, W., Hamada, A., Zhou, D., Anwer S. Abd El-Hameed , M. Khalid Hossain & El-Ghazzawy, E. H. (2024). Enhancing electromagnetic interference mitigation: A comprehensive study on the synthesis and shielding capabilities of polypyrrole/cobalt ferrite nanocomposites. *Sustainable Materials and Technologies*, 42, e01150. <https://doi.org/10.1016/j.susmat.2024.e01150>
15. Ali, E. S., Issa, S. A., Zakaly, H. M., El-Shamy, N. T., Saudi, H. A., & Abuylazied, D. E. (2024). Exploration of optical and gamma radiation shielding characteristics of zinc oxide nanoparticles doped functionalized multi-walled carbon nanotubes nanohybrids based polyaniline ternary nanocomposites. *Diamond and Related Materials*, 143, 110882. <https://doi.org/10.1016/j.diamond.2024.110882>
16. Al-Saleh, W. M., Elsafi, M., Almutairi, H. M., Nabil, I. M., & El-Nahal, M. A. (2024). A comprehensive study of the shielding ability from ionizing radiation of different mortars using iron filings and bismuth oxide. *Scientific Reports*, 14(1), 10014. <https://doi.org/10.1038/s41598-024-60188-2>
17. Darwish, M. A., Torad, N. L., Zhou, D., Maafa, I. M., Yousef, A., Uddin, A., & Salem, M. M. (2024). Optimizing BHF/PVDF Composites via Compression Molding for High-Frequency Applications and Electromagnetic Shielding. *Ceramics International*, 50(23), 50263-50270. <https://doi.org/10.1016/j.ceraint.2024.09.371>
18. El-Khatib, A. M., Abbas, M. I., Mahmoud, M. E., Fayed-Hassan, M., Khalil, M. H., & Abd El Aal, A. (2024). Polyurethane reinforced with micro/nano waste slag as a shielding panel for photons (experimental and theoretical study). *Scientific Reports*, 14(1), 10548. <https://doi.org/10.1038/s41598-024-60482-z>
19. Vinnik, D. A., Sherstyuk, D. P., Zhivulin, V. E., Gudkova, S. A., Zezulyina, P. A., Petrov, D. A., A.O. Shiryaev, Yuan Yao, S.V. Trukhanov, T.I. Zubar & Trukhanov, A. V. (2024). Effect of the chemical substitution on structural parameters and microwave properties of the Co-Ni-Zn spinels. *Journal of Materials Research and Technology*, 33, 204-211. <https://doi.org/10.1016/j.jmrt.2024.09.055>
20. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., Abdelghany, A. M., Tharwat, M., Abouhaswa, A. S., Islam M. Nabil, & Rammah, Y. S. (2024). Influence of WO₃ replacement for CaO on physical, optical, and γ-ray protection properties of borotellurite glasses: a comparative study. *Ceramics International*, 8, part A, pages 32687-32698. <https://doi.org/10.1016/j.ceraint.2024.06.076>
21. Almousa, N., Issa, S. A., Salem, M. M., Darwish, M. A., Serag, E. N., Nazrin, S. N., & Zakaly, H. M. (2024). Tailoring perovskite ceramics for improved structure, vibrational behaviors and radiation protection: The role of lanthanum in PbTiO₃. *Optical Materials*, 152, 115543. <https://doi.org/10.1016/j.optmat.2024.115543>
22. Alsaif, N. A., Al-Ghamdi, H., Khattari, Z. Y., Alfryyan, N., Abdelghany, A. M., Abouhaswa, A. S., & Rammah, Y. S. (2024). High dense cadmium lead-borate glasses: fabrication, physical properties and capability for γ-ray and neutron shields. *Optical and Quantum Electronics*, 56(12), 1941. <https://doi.org/10.1007/s11082-024-06751-7>
23. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., El-Seidy, A. M., Abdelghany, A. M., Rammah, Y. S., & Abouhaswa, A. S. (2024). Raman Spectroscopy, Physical Parameters and γ-Ray Shielding Competence of Newly Lu³⁺ Ions Doped Borosilicate Glasses. *Journal of Inorganic and Organometallic Polymers and Materials*, 34, pages 3623 - 3631. <https://doi.org/10.1007/s10904-024-03054-y>
24. Alsaif, N. A., El-Refaei, A. M., Elsad, R. A., Shams, M. S., Almutairi, W. M., & Rammah, Y. S. (2024). Effect of titanium ion doping on γ-ray shielding, structure and dielectric characteristics of glasses made of barium zinc borate. *Optical and Quantum Electronics*, 56(7), 1098. <https://doi.org/10.1007/s11082-024-06809-6>
25. Alharshan, G. A., El-Seidy, A. M., Elamy, M. I., Nabil, I. M., El-Refaei, A. M., Elsad, R. A., M. S. Shams, A. M. Abdelghany & Rammah, Y. S. (2024). CeO₂ additive to bismo-borate glasses: synthesis, structure, physical characteristics, and radiation protection competence. *Journal of Materials Science: Materials in Electronics*, 35(12), 862. <https://doi.org/10.1007/s10854-024-12610-8>
26. Abouhaswa, A. S., Abdelghany, A. M., Alfryyan, N., Alsaif, N. A., Rammah, Y. S., & Nabil, I. M. (2024). The impact of B₂O₃/Al₂O₃ substitution on physical properties and γ-ray shielding competence of aluminum-borate glasses: comparative study. *Journal of Materials Science: Materials in Electronics*, 35(12), 1-13. <https://doi.org/10.1007/s10854-024-12629-x>
27. Cao, R., Li, G., Hu, D., Wang, Y., Wang, L., Li, H., Yuxiong Xue & Zeng, X. (2024). Simulation of γ-Ray Radiation Shielding Utilizing Gd₂O₃/Bi₂O₃/Epoxy Resin. *Journal of Inorganic and Organometallic Polymers and Materials*, 34, 4894 - 4905. <https://doi.org/10.1007/s10904-024-03161-w>
26. A Pantelica, A Ene, II Georgescu, Instrumental neutron activation analysis of some fish species from Danube River in Romania, Microchemical Journal 103, 142-147, 2012 (32)
1. Nurcahyani, F., Yusuf, S., Istianto, I., Suprapti, S., Alfian, A., Mulyaningsih, T. R., Ferly Hermana, Firda Amalia & Dewi, S. H. (2024). Determination of Chromium Mineral in Foodstuffs in Indonesia using INAA Method. In *E3S Web of Conferences* (Vol. 481, p. 06001). EDP Sciences. <https://doi.org/10.1051/e3sconf/202448106001>
27. G ALMISned, DS Baykal, G Kilic, G Susoy, HMH Zakaly, A Ene, HO Tekin, Assessment of the usability conditions of Sb₂O₃-PbO-B₂O₃ glasses for shielding purposes in some medical radioisotope and a wide gamma-ray energy spectrum, Applied Rheology 32 (1), 178-189, 2022 (31) [Web of Science](#)
[Web of Science](#)

- Kurtulus, R. (2024). Recent developments in radiation shielding glass studies: A mini-review on various glass types. *Radiation Physics and Chemistry*, 220, 111701. <https://doi.org/10.1016/j.radphyschem.2024.111701>
- Al-Ghamdi, H., Alsaif, N. A., Alfryyan, N., Rammah, Y. S., & Nabil, I. M. (2024). Investigation of gamma-ray and neutron protection competence of oxyfluoride aluminosilicate glasses reinforced with TbF₃: Comparative study. *Radiation Physics and Chemistry*, 224, 112105. <https://doi.org/10.1016/j.radphyschem.2024.112105> Web of Science
- Alomari, A. H. (2024). BaO-Doped Na₂O-CaO-P₂O₅ Bioactive Glasses: A closer look at radiation attenuation properties for medical applications. *Radiation Physics and Chemistry*, 223, 112019. <https://doi.org/10.1016/j.radphyschem.2024.112019> Web of Science
- Al-Ghamdi, H., Alfryyan, N., Alsaif, N. A., Rammah, Y. S., Abo-Mosallam, H. A., & Mahdy, E. A. (2024). Efficiency of K₂WO₄ containing a newly synthesized phosphate based glasses: Physical, thermal properties, FTIR spectroscopy and γ-ray shielding parameters. *Radiation Physics and Chemistry*, 224, 112068. <https://doi.org/10.1016/j.radphyschem.2024.112068> Web of Science
- Alsaif, N. A., Al-Ghamdi, H., Alfryyan, N., Alharbi, F. F., Abouhaswa, A. S., Elsad, R. A., & Rammah, Y. S. (2024). Tailoring the FTIR, magnetic properties and neutron attenuation capacity of borosilicate glass: Role of Co₃O₄. *Optical Materials*, 157, part 3, 116439. <https://doi.org/10.1016/j.optmat.2024.116439>
- Karpuz, N. (2024). Effect of La₂O₃ on Magnesium Borosilicate glasses glass for radiation shielding materials in nuclear application. *Radiation Physics and Chemistry*, 214, 111305. <https://doi.org/10.1016/j.radphyschem.2023.111305>
- Alan, H. Y., Yilmaz, A., Susam, L. A., Ozturk, C., Kilic, C., Illek, E., Sener Oktik, Baki Akkus, Ghada ALMisned & Tekin, H. O. (2024). KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses. *Radiation Physics and Chemistry*, volume 218, 111637. <https://doi.org/10.1016/j.radphyschem.2024.111637>
- ALMisned, F. (2024). Computation of gamma-ray buildup factors for (25-x) CaF₂-xAl₂O₃-15Bi₂O₃-59B₂O₃-CuO glasses. *Radiation Physics and Chemistry*, 214, 111275. <https://doi.org/10.1016/j.radphyschem.2023.111275>
- Hordieiev, Y. S., & Zaichuk, A. V. (2024). Impact of aluminum fluoride addition on crystallization, structure and thermal properties of lead borate glasses. *Chalcogenide Letters*, 21(3), 243-253.

28. Ghada ALMisned, Hesham MH Zakaly, Shams AM Issa, **Antoaneta Ene**, Gokhan Kilic, Omemh Bawazeer, Albandari Almatar, Dalal Shamsi, Elaf Rabaa, Zuhal Sideig, Huseyin O Tekin, **Gamma-ray protection properties of bismuth-silicate glasses against some diagnostic nuclear medicine radioisotopes: a comprehensive study**, Materials 14 (21), 6668, 2021 (31) [Web of Science](#)

Web of Science

- Shah, A. Z., Zaid, M. H. M., Matori, K. A., Yaakob, Y., Sarmani, A. R., & Hisam, R. (2024). Comprehensive study on structural, elastic and radiation shielding abilities of novel quaternary Bi₂O₃-TeO₂-Li₂O-Al₂O₃ glasses. *Progress in Nuclear Energy*, 171, 105191. <https://doi.org/10.1016/j.pnucene.2024.105191> Web of Science
- Al-Ghamdi, H., Alfryyan, N., Alsaif, N. A., Rammah, Y. S., Abo-Mosallam, H. A., & Mahdy, E. A. (2024). Efficiency of K₂WO₄ containing a newly synthesized phosphate based glasses: Physical, thermal properties, FTIR spectroscopy and γ-ray shielding parameters. *Radiation Physics and Chemistry*, 224, 112068. <https://doi.org/10.1016/j.radphyschem.2024.112068> Web of Science
- Alsaif, N. A., Al-Ghamdi, H., Alfryyan, N., Alharbi, F. F., Abouhaswa, A. S., Elsad, R. A., & Rammah, Y. S. (2024). Tailoring the FTIR, magnetic properties and neutron attenuation capacity of borosilicate glass: Role of Co₃O₄. *Optical Materials*, 157, part 3, 116439. <https://doi.org/10.1016/j.optmat.2024.116439>
- Negm, H. H., Sdeek, A. A., & Ebrahim, A. A. (2024). A Comprehensive Investigation of the Impact of NiO on the Radiation Attenuation Characteristics of (CaO-Li₂O-NiO-SiO₂) Glass Structure. *Journal of Electronic Materials*, 53(2), 945-958. <https://doi.org/10.1007/s11664-023-10833-9>
- Alomari, A. Elucidating the Multiple Contributions of Increasing MoO₃ Concentration on Phosphate Glasses for Radiation Safety Applications. *Radiation Physics and Chemistry*, Volume 218, May 2024, 111593. <https://doi.org/10.1016/j.radphyschem.2024.111593> Web of Science
- Zakaly, H. M., Issa, S. A., Saudi, H. A., Algethami, M., & Soliman, T. S. (2024). Enhancing optical and radiation shielding properties: A dive into Bi₂O₃-Infused glasses. *Optical Materials*, 152, 115496. <https://doi.org/10.1016/j.optmat.2024.115496>
- Ekinci, N., Kavaz, E., Alsaif, N. A., Rammah, Y. S., Saritaş, S., & Aygün, B. (2024). Investigation of structural, physical and radiation attenuation properties of lithium tetra-borate with Cr₂O₃ glass-ceramics: experimental and theoretical methods. *Journal of the Australian Ceramic Society*, 1-10. <https://doi.org/10.1007/s41779-024-01094-8>

30. CL Chiteescu, **A Ene**, EI Geana, AM Vasile, CT Ciucure. **Emerging and persistent pollutants in the aquatic ecosystems of the lower Danube Basin and North West Black Sea Region—A review**, Applied Sciences 11 (20), 9721, 2021 (30) [Web of Science](#)

- Oros, A., Coatu, V., Damir, N., Danilov, D., & Ristea, E. (2024). Recent Findings on the Pollution Levels in the Romanian Black Sea Ecosystem: Implications for Achieving Good Environmental Status (GES) Under the Marine Strategy Framework Directive (Directive 2008/56/EC). *Sustainability*, 16(22), 9785. <https://doi.org/10.3390/su16229785>
- de Campos Júnior, E. O., de Campos, J. M. S., Dias, R. J. P., & Barros, N. O. (2024). Novelties on tradescantia: Perspectives on water quality monitoring. *Chemosphere*, 368, 143732. <https://doi.org/10.1016/j.chemosphere.2024.143732>
- Grmasha, R. A., Stenger-Kovács, C., Al-Sareji, O. J., Al-Juboori, R. A., Meiczinger, M., Andredaki, M., Ibijoke A. Idowu, Hasan Sh. Majdi, Khalid Hashim, & Al-Ansari, N. (2024). Temporal and spatial distribution of polycyclic aromatic hydrocarbons (PAHs) in the Danube River in Hungary. *Scientific Reports*, 14, 8318. <https://doi.org/10.1038/s41598-024-58793-2> Web of Science
- Alexandrova, A. V., Tsvetanova, E. R., Georgieva, A. P., Andreeva, M. N., Pramatarov, G. I., Kanzova, H. G., Georgi K. Petrov & Chipev, N. H. Redox Status as a Health Indicator of Economically Important Fish from the Northern Shelf of the Bulgarian Black Sea, *Acta Zool. Bulg.*, Supplement 20 (August 2024), 15-25.
- G ALMisned, F Akman, WS AbuShanab, HO Tekin, MR Kaçal, SAM Issa, Hasan Polat, Meral Oltulu, **Antoaneta Ene**, Hesham MH Zakaly, **Novel Cu/Zn reinforced polymer composites: Experimental characterization for radiation protection efficiency (rpe) and shielding properties for alpha, proton, neutron, and Gamma Radiations**, Polymers 13 (18), 3157, 2021 (28) [Web of Science](#)
- Khoshhal, A. R., Khatibani, A. B., Tirehdast, Z., Shaddoust, M., & Nirouei, M. (2024). Evaluation of experimental and simulated gamma ray shielding ability of ZnCo₂O₄ and ZnCo₂O₄/graphene nanoparticles. *Optical Materials*, 156, 115953.
- <https://doi.org/10.1016/j.optmat.2024.115953> Web of Science
- Güler, S. H., Güler, Ö., Kavaz, E., ALMisned, G., Albayrak, M. G., Issa, B., & Tekin, H. O. (2024). Fabrication and structural, physical, and nuclear radiation shielding properties for Oxide Dispersion-Strengthened (ODS) alloys through Erbium (III) oxide, Samarium (III) oxide, and Praseodymium (III) oxide into 316L matrix. *Ceramics International*, 50(3), 5443-5452. <https://doi.org/10.1016/j.ceramint.2023.11.295>
- Alabsy, M. T., Abbas, M. I., Sharaby, M. A., Elzaher, M. A., Doma, A. S., & El-Khatib, A. M. (2024). Exploring green environmental composites as hosts for shielding materials using experimental, theoretical and Geant4 simulation methods. *Scientific Reports*, 14(1), 18046. <https://doi.org/10.1038/s41598-024-68028-z>
- Ali, E. S., Issa, S. A., Zakaly, H. M., El-Shamy, N. T., Saudi, H. A., & Abulyazied, D. E. (2024). Exploration of optical and gamma radiation shielding characteristics of zinc oxide nanoparticles doped functionalized multi-walled carbon nanotubes nanohybrids based polyaniline ternary nanocomposites. *Diamond and Related Materials*, 143, 110882. <https://doi.org/10.1016/j.diamond.2024.110882>

6. Alan, H. Y., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., Ilik, E., Sener Oktik, Baki Akkus, Ghada ALMisned & Tekin, H. O. (2024). KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses. *Radiation Physics and Chemistry*, volume 218, 111637. <https://doi.org/10.1016/j.radphyschem.2024.111637>
7. Özdogan, H., Üncü, Y. A., Akman, F., Polat, H., & Kaçal, M. R. (2024). Investigation of Gamma Ray Shielding Characteristics of Binary Composites Containing Polyester Resin and Lead Oxide. *Polymers*, 16(23), 3324. <https://doi.org/10.3390/polym16233324> Web of Science
8. Alanaizi, S. F., Alotaibi, N. M., Alsuhaybani, M., Alnassar, N., Almasoud, F. I., & Almurayshid, M. (2024). Fabrication, Structural Characterization, and Photon Attenuation Efficiency Investigation of Polymer-Based Composites. *Polymers*, 16(9), 1212. <https://doi.org/10.1016/j.ceramint.2023.11.295> Web of Science
9. Kim, S. C., Yun, J. H., Byun, H. S., & Hou, J. (2024). Verification of Optimal X-Ray Shielding Properties Based on Material Composition and Coating Design of Shielding Materials. *Coatings*, 14(11), 1450. <https://doi.org/10.3390/coatings14111450>
10. Malidarreh, R. B., Akkurt, I., Almousa, N., & Zakaly, H. M. (2024). Exploring the impact of sulfur-antimony incorporation on the radiation shielding, structural, physical, and electrical properties of (S3Sb2) x (S2Ge) 100-x chalcogenide composites. *Optical and Quantum Electronics*, 56(5), 736. [Web of Science](#)
11. Rajanna Ambika, M., Kutukaran, S. S., Nagaiah, N., Melavanki, R., Shashi Kumar, S. K., & Kumar Suman, S. (2024). Multifiller-based polymer composites for shielding high energy ionising radiation. *Radiation Protection Dosimetry*, 200(11-12), 1178-1182. <https://doi.org/10.1093/rpd/nca010>

34. El Saeed R Lasheen, Mokhles K Azer, **Antoaneta Ene**, Wael Abdelwahab, Hesham MH Zakaly, Hamdy A Awad, Nilly A Kawady, **Radiological Hazards and Natural Radionuclide Distribution in Granitic Rocks of Homrit Wagga Area, Central Eastern Desert, Egypt**, *Materials* 15 (12), 4069, 2022 (28) [Web of Science](#)
Web of Science
 1. Khaleal, F. M., Lentz, D. R., Kamh, S. Z., Saleh, G. M., Abdalla, F., & El Saeed, R. L. (2024). Remote sensing analysis and geodynamic setting of magmatic spessartine-almandine-bearing leucogranites, Um Addebaa area, southeastern Desert, Egypt: Bulk rock and mineral chemistry. *Physics and Chemistry of the Earth, Parts A/B/C*, 136, 103749. <https://doi.org/10.1016/j.pce.2024.103749> Web of Science
 2. Zakaly, H. M., Awad, H. A., El Saeed, R. L., Issa, S. A., Elsaman, R., Khandaker, M. U., Hezam Al-awah, Douaa Fathy & Sami, M. (2024). Radiometric and petrographic characterization of El-Yatima granite: Evaluating radiological risks and mineralogical features. *Radiation Physics and Chemistry*, 224, 111992. <https://doi.org/10.1016/j.radphyschem.2024.111992>
 3. El Saeed, R. L., Elyaseer, M. H., Mohamed, W. H., Azer, M. K., Rashwan, M. A., & Thabet, I. A. (2024). Economic feasibility of Gabal Um Takha leucogranitic intrusion, South Sinai, Egypt: Integrated remote sensing, geochemical, aeromagnetic, and geotechnical approach. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103531. <https://doi.org/10.1016/j.pce.2023.103531>
 4. Saleh, G. M., Kamh, S. Z., Abdalla, F., Kilias, A., & El Saeed, R. L. (2024). A new occurrence of rift-related damtjernite (ultramafic) lamprophyre, Gebel Anweiyb area, Arabian Nubian shield: Insights from bulk rock geochemistry and remote sensing data analysis. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103530. <https://doi.org/10.1016/j.pce.2023.103530>
 5. Heikal, M. T. S., Shereif, A. S., & Azer, M. K. (2024). Gamma activity concentrations (226Ra, 232Th, 40K) of mineralized Homret Akarem composite granitic pluton, Egyptian Nubian Shield: environmental hazards assessment. *Euro-Mediterranean Journal for Environmental Integration*, 1-30. <https://doi.org/10.1007/s41207-024-00589-x>

36. T Spanos, **A Ene**, C Xatzixristou, A Papaioannou, **Assessment of groundwater quality and hydrogeological profile of Kavala area, Northern Greece**, *Environmental Physics* 60, 1139-1150, 2015 (27) [Web of Science](#)
Web of Science
 1. Okimiji OP, Simon JN, Aborisade MA, Adedeji OH, Okafor AT, Tope-Ajaiy OO, Ezennia JO. Integrated GIS-based and water quality index for evaluation of groundwater quality in the coastal slum settlements of Lagos, Nigeria. *Groundwater for Sustainable Development*. 2024, 25, 101170. <https://doi.org/10.1016/j.gsd.2024.101170> Web of Science

38. IV Ion, **A Ene**, **Evaluation of greenhouse gas emissions from reservoirs: A review**, *Sustainability* 13 (21), 11621, 2021 (26) [Web of Science](#)
Web of science
 1. Pan, Z., Yang, S., Lou, H., Gong, J., Zhou, B., Wang, H., Hao Li , Jiekang Li , Yunmeng Dai , Yin Yi , Chengcheng Gao & Huang, X. (2024). Small reservoirs can enhance the terrestrial carbon sink of controlled basins in karst areas worldwide. *Science of The Total Environment*, 951, 175517. <https://doi.org/10.1016/j.scitotenv.2024.175517> Web of Science
 2. De Sarkar, K., Ghosh, S., Bhattacharya, S., Chowdhury, A., & Holmatov, B. (2024). Assessing GHG Emissions of a Tropical Large Hydropower Reservoir Using G-res and GEE. *Journal of the Indian Society of Remote Sensing*, 1-12. <https://doi.org/10.1007/s12524-024-02045-3>
 3. Pérez-Cedeño, R. O., Ramírez-Pisco, R., Vásquez-Stanescu, C. L., Suárez-Matarrita, L., Gaitán-Ángulo, M., & Gómez-Caicedo, M. (2024). Estimation of methane emissions from reservoirs for hydroelectric generation in Costa Rica. *Revista Facultad de Ingeniería Universidad de Antioquia*, (110), 110-119.
 4. Ma, J. H., Yoo, C., Yun, T. S., & Jung, D. (2024). Dilemma of a small dam with large basin area under climate change condition. *Computers and Concrete*, 33(5), 559-572
 5. Diego G. Panique-Casso, Peter Goethals, Long Ho, Modeling greenhouse gas emissions from riverine systems: A review, *Water research*, Volume 250, 15 February 2024, 121012

39. GA Alharshan, MS Kamar, ESR Lasheen, **A Ene**, MAM Uosif, HA Awad, Shams AM Issa, Hesham MH Zakaly, **Distribution of Radionuclides and Radiological Health Assessment in Seih-Sidri Area, Southwestern Sinai**, *International Journal of Environmental Research and Public Health* 19 (17), 10717, 2022 (25) [Web of Science](#)
 1. Khaleal, F. M., Lentz, D. R., Kamh, S. Z., Saleh, G. M., Abdalla, F., & El Saeed, R. L. (2024). Remote sensing analysis and geodynamic setting of magmatic spessartine-almandine-bearing leucogranites,Um Addebaa area, southeastern Desert, Egypt: Bulk rock and mineral chemistry. *Physics and Chemistry of the Earth, Parts A/B/C*, 136, 103749. <https://doi.org/10.1016/j.pce.2024.103749> Web of Science
 2. Zakaly, H. M., Awad, H. A., El Saeed, R. L., Issa, S. A., Elsaman, R., Khandaker, M. U., Hezam Al-awah, Douaa Fathy & Sami, M. (2024). Radiometric and petrographic characterization of El-Yatima granite: Evaluating radiological risks and mineralogical features. *Radiation Physics and Chemistry*, 224, 111992. <https://doi.org/10.1016/j.radphyschem.2024.111992>
 3. El Saeed, R. L., Elyaseer, M. H., Mohamed, W. H., Azer, M. K., Rashwan, M. A., & Thabet, I. A. (2024). Economic feasibility of Gabal Um Takha leucogranitic intrusion, South Sinai, Egypt: Integrated remote sensing, geochemical, aeromagnetic, and geotechnical approach. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103531. <https://doi.org/10.1016/j.pce.2023.103531>
 4. Saleh, G. M., Kamh, S. Z., Abdalla, F., Kilias, A., & El Saeed, R. L. (2024). A new occurrence of rift-related damtjernite (ultramafic) lamprophyre, Gebel Anweiyb area, Arabian Nubian shield: Insights from bulk rock geochemistry and remote sensing data analysis. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103530. <https://doi.org/10.1016/j.pce.2023.103530>
 5. Sidique, E., Elhaddad, M. A., Sami, M., Sanislav, I. V., Alshehri, F., Ahmed, M. S., & Abbas, H. (2024). Geochemical characteristics, hazards impact assessment and radiogenic heat production of the alkaline rocks. *Scientific Reports*, 14(1), 1-21. <https://doi.org/10.1038/s41598-024-59627-x>

6. Yadav, J., Beniwal, R., Singh, P. P., Singh, P., & Dalal, R. (2024). Assessment of natural radioactivity in the Higher and Tethys Himalayan Rocks along Manali-Leh Highway, India. *Environmental Monitoring and Assessment*, 196(11), 1133. <https://doi.org/10.1007/s10661-024-13268-9>
7. El Tohamy, A. M. (2024). Hydrothermal alteration processes in monzogranite: a case study from the Eastern Desert of Egypt: implications from remote sensing, geochemistry and mineralogy. *Geochemical Transactions*, 25(1), 1-31. <https://doi.org/10.1186/s12932-024-00089-5>
8. Zakaly HM, Awad HA, Abbasi A, Almousa N, Elsaman R, El-Salam A, Lotfy M, Mostafa AM, Issa SA. Radioactive and mineralogical assessment of mediterranean black sands: a systematic analysis and health risk evaluation. *Journal of Radioanalytical and Nuclear Chemistry*. 2024, volume 333, pages 1937 – 1947, <https://doi.org/10.1007/s10967-024-09452-3> Web of Science

40. HM El-Desoky, AW Tende, AM Abdel-Rahman, A Ene, HA Awad, Wael Fahmy, Hamada El-Awny, Hesham MH Zakaly, **Hydrothermal alteration mapping using landsat 8 and ASTER data and geochemical characteristics of Precambrian rocks in the Egyptian shield: A Case Study from Abu Ghagala Southeastern Desert, Egypt**, *Remote Sensing* 14 (14), 3456, 2022 (24) [Web of Science](#)

Web of Science

1. Santos, D., Azzolini, A., Mendes, A., Cardoso-Fernandes, J., Lima, A., Müller, A., & Teodoro, A. C. (2024). Optimizing Exploration: Synergistic approaches to minimize false positives in pegmatite prospecting—A comprehensive guide for remote sensing and mineral exploration. *Ore Geology Reviews*, 175, 106347. <https://doi.org/10.1016/j.oregeorev.2024.106347>
2. Abdelkader, M. A., Watanabe, Y., Shebl, A., Badawi, M., Dawoud, M., El-Dokouny, H. A., Árpád Csámer & Abdellatif, M. (2024). Advanced exploration of rare metal mineralization through integrated remote sensing and geophysical analysis of structurally-controlled hydrothermal alterations. *Journal of Geochemical Exploration*, 267, 107598. [Web of Science](#)
3. El-Desoky, H. M., Bachri, I., El-Mezayen, A. M., Abdel-Rahman, A. M., El-Awny, H., El-Gammal, A. A., Fahad Alshehri & Almadani, S. (2024). An integrated remote sensing, petrology, and field geology analyses for Neoproterozoic basement rocks in some parts of the southern Egyptian-Nubian Shield. *Scientific Reports*, 14(1), 14761. <https://doi.org/10.1038/s41598-024-62093-0>
4. Fangary, I. H., Kamel, M. A., Tolba, A. S., Orabi, A. M., & Abdel-Salam, L. M. (2024). Integration of Remotely Sensed Data and the Petrographic Analysis for Lithological Mapping of Neoproterozoic Basement Rocks at Um Had Area, Central Eastern Desert, Egypt. *Journal of the Indian Society of Remote Sensing*, 52, pages 2531 - 2564. <https://doi.org/10.1007/s12524-024-01960-9> [Web of Science](#)
5. Salem, M. M., Yehia, M. A., Omran, A. A., Sundoly, H. I. E., Soliman, M. A., & Abdelmalik, K. (2024). Space/ground-borne techniques and petrographic microscopic dissection for geologic mapping in Gabal Ras Abda area, Northeastern Desert, Egypt. *Beni-Suef University Journal of Basic and Applied Sciences*, 13(1), 44. [Web of Science](#)
6. Tshanga M, M., Ncube, L., & van Niekerk, E. (2024). Remote sensing insights into subsurface-surface relationships: Land Cover Analysis and Copper Deposits Exploration. *Earth Science Informatics*, 17, 3979 - 4000. <https://doi.org/10.1007/s12145-024-01423-2> [Web of Science](#)
7. El-Harairey, M. A., Saad, H. R., Moawed, E. A., Elafndi, R. K., Eissa, M. S., El-Zahed, M. M., & El Sadda, R. R. (2024). Evaluation of titanium dioxide/catechol polyurethane composite for antimicrobial resistance and wastewater treatment. *Discover Materials*, 4(1), 1-20. <https://doi.org/10.1007/s43939-024-00135-0>

41. Huseyin Ozan Tekin, Ghada ALMisned, Yasser Saad Rammah, Gulferm Susoy, Fatema T Ali, Duygu Sen Baykal, Hesham MH Zakaly, Shams AM Issa, Antoaneta Ene, **Mechanical properties, elastic moduli, transmission factors, and gamma-ray-shielding performances of Bi2O3-P2O5-B2O3-V2O5 quaternary glass system**, *Open Chemistry* 20 (1), 314-329, 2022 (25) [Web of Science](#)

Web of science

1. Biradar, S., Chandrashekara, M. N., Dinkar, A., Devidas, G. B., Bennal, A. S., Rajaramakrishna, R., & Sayyed, M. I. (2024). Synergistic optimization of physical, thermal, structural, mechanical, optical and radiation shielding characteristics in borate glasses doped with Bi2O3. *Optical Materials*, 155, 115815. <https://doi.org/10.1016/j.optmat.2024.115815>
2. Almisned, G., Susoy, G., Baykal, D. S., & Tekin, H. O. (2024). A comparative investigation on mechanical, gamma-ray and neutron shielding properties of some Iron and Boron containing concretes samples for nuclear safety applications. *Radiation Physics and Chemistry*, 223, 111987. [Web of Science](#)
3. Aloraini, D. A., Almuqrin, A. H., & Saeed, A. (2024). Impact of Bi3+, Ba2+, and Pb2+ ions on the structural, thermal, mechanical, optical, and gamma ray shielding performance of borosilicate glass. *Optical and Quantum Electronics*, 56(1), 126. <https://doi.org/10.1007/s11082-023-05688-7>
4. ALMisned, G., Baykal, D. S., Alkarrahi, H., Kilic, G., Zakaly, H. M., Issa, S. A., & Tekin, H. O. (2024). Mechanical and, photon transmission properties of rare earth element (REE) doped BaO-B2O3-Li2O-Al2O3-P2O5 glasses for protection applications. *Journal of Radiation Research and Applied Sciences*, 17(3), 101041. <https://doi.org/10.1016/j.jrras.2024.101041>
5. Mwakuna, A. E., Laxmikanth, C., & Manepalli, R. K. N. R. (2024). Effect of replacing B2O3 with CuO on the structural, optical absorption, thermal, mechanical, and gamma-ray shielding properties of B2O3-Bi2O3-K2O glass. *Optical Materials*, 157, 116282. <https://doi.org/10.1016/j.optmat.2024.116282>
6. Bondzior, B., & Lisiecki, R. (2024). Divalent tin activator for Nd3+/Yb3+ emission in lanthanum borate glass and its impact on inter-ionic phenomena and thermometry. *Journal of Alloys and Compounds*, 1007, 176471. [Web of Science](#)
7. Sayyed, M. I., Kumar, A., Hanafy, T. A., & Maghrbi, Y. (2024). A detailed study on the physical, mechanical, structural and gamma ray shielding properties of Al2O3-Na2O-SiO2-B2O3-Bi2O3glass system. *Journal of Science: Advanced Materials and Devices*, 9(4), 100809. [Web of Science](#)
8. Tharwat, M., Semary, M. M., & El-Mesady, I. A. (2024). Investigation of the structural, optical and shielding parameters of B2O3-Na2O-Bi2O3-CdO-V2O5 glasses. *Optical Materials*, 149, 115090. <https://doi.org/10.1016/j.optmat.2024.115090>
9. Biradar, S., Chandrashekara, M. N., Dinkar, A., Devidas, G. B., Bennal, A. S., Sayyed, M. I., & Es-soufi, H. (2024). A multifaceted study of B2O3-BaO-PbO-WO3 glasses doped with Bi2O3: Insights from physical, thermal, structural, mechanical and optical analyses towards improved shielding properties. *Ceramics International*, 50(17), part A, pages 29332-29345. [Web of Science](#)
10. Al-Ghamdi, H., Alsaif, N. A., Khattari, Z. Y., Rammah, Y. S., Elsad, R. A., Alhashem, Z. H., Hasna Abdullah Alali, Ashraf H. Farha & Elamy, M. I. (2024). Mechanical, dielectric properties and gamma-ray buildup factors of CaO-Li2O-B2O3-As2O3 glasses: Significant role of As2O3. *Radiation Physics and Chemistry*, 215, 111355. <https://doi.org/10.1016/j.radphyschem.2023.111355>
11. ALMisned, G., Susoy, G., Zakaly, H. M., Rabaa, E., Kilic, G., Baykal, D. S., & Tekin, H. O. (2024). Customization of silver (I) oxide incorporation ratio to enhance radiation attenuation properties in chalcogenide oxide reinforced glass-ceramics. *Journal of the Australian Ceramic Society*, 60, pages 1447 - 1460. <https://doi.org/10.1007/s41779-024-01053-3>

42. C Stihă, IV Popescu, M Frontasyeva, C Radulescu, A Ene, O Culicov , Inga Zinicovscaia, Ioana Daniela Dulama, Simona Cucu-Man, Radu Todoran, Anca Irina Gheboianu, Alin Bucurica, Iulian Bancuta, Gabriel Dima, **Characterization of heavy metal air pollution in Romania using moss biomonitoring, neutron activation analysis, and atomic absorption spectrometry**, *Analytical Letters* 50 (17), 2851-2858, 2017 (26)

Web of science

1. Gezahegn, A., Bohnett, E., & Mammo, S. (2024). The role of mosses in 'clean and green' phytoremediation technology: a review paper. *BioMetals*, 1-13. <https://doi.org/10.1007/s10534-024-00649-3>

43. Hamdy A Awad, Ibrahim Abu El-Leil, Aleksey V Nastavkin, Abdellah Tolba, Mostafa Kamel, Refaey M El-Wardany, Abdalla Rabie, **Antoaneta Ene**, Huseyin O Tekin, Shams AM Issa, Hesham MH Zakaly, **Statistical analysis on the radiological assessment and geochemical studies of granite rocks in the north of Um Taghir area, Eastern Desert, Egypt**, Open Chemistry 20 (1), 254-266, 2022 (25) [Web of Science](#)

Web of science

1. Abdelwahab, W., & El-Shamy, A. M. (2024). Exploring Talc Deposits: Physical Characteristics, Geological Factors, and Formation in Ultramafic and Mafic Rocks—A Comprehensive Review. *Chemistry Africa*, 1-41. <https://doi.org/10.1007/s42250-024-01151-6>
2. Tuncel, N., Akkurt, I., Atik, I., Malidarre, R. B., & Sayyed, M. I. (2024). Neutron-gamma shielding properties of chalcogenide glasses. *Radiation Physics and Chemistry*, 218, 111582. [Web of Science](#)
3. Abd El-Naby, H. H., & Dawood, Y. H. (2024). The Geochemistry, Petrogenesis, and Rare-Metal Mineralization of the Peralkaline Granites and Related Pegmatites in the Arabian Shield: A Case Study of the Jabal Sayid and Dayheen Ring Complexes, Central Saudi Arabia. *Applied Sciences*, 14(7), 2814. [Web of Science](#)
4. Almisned, F. (2024). Computation of gamma-ray buildup factors for (25-x) CaF₂-xAl₂O₃-15Bi₂O₃-59B₂O₃-CuO glasses. *Radiation Physics and Chemistry*, 214, 111275. <https://doi.org/10.1016/j.radphyschem.2023.111275>
5. Salem, M. M., Yehia, M. A., Omran, A. A., Sundoly, H. I. E., Soliman, M. A., & Abdelmalik, K. (2024). Space/ground-borne techniques and petrographic microscopic dissection for geologic mapping in Gabal Ras Abda area, Northeastern Desert, Egypt. *Beni-Suef University Journal of Basic and Applied Sciences*, 13(1), 44. [Web of Science](#)
6. El-Naby, A., Hamdy, H., & Dawood, Y. H. (2024). Geochemical Constraints on the Evolution of Late-to Post-Orogenic Granites in the Arabian Shield, with a Specific Focus on Jabal Al Bayda Area in the Central Hijaz Region, Saudi Arabia. *Applied Sciences*, 14(2), 735. [Web of Science](#)

44. S Nickel, W Schröder, R Schmalfuss, M Saathoff, H Harmens, G Mills, Marina V Frontasyeva, Lambe Barandovski, Oleg Blum, Alejo Carballera, Ludwig De Temmerman, Anatoly M Dunaev, **Antoaneta Ene**, Hilde Fagerli, Barbara Godzik, Ilia Ilyin, Sander Jonkers, Zvonka Jeran, Pranvera Lazo, Sébastien Leblond, Siiri Liiv, Blanka Mankovska, Encarnación Núñez-Olivera, Juha Piispanen, Jarmo Poikolainen, Ion V Popescu, Flora Qarri, Jesus Miguel Santamaría, Martijn Schaap, Mitja Skudnik, Zdravko Špirić, Trajce Stafilov, Eiliv Steinnes, Claudia Stihl, Ivan Suchara, Hilde Thelle Uggerud, Harald G Zechmeister **Modelling spatial patterns of correlations between concentrations of heavy metals in mosses and atmospheric deposition in 2010 across Europe**, *Environmental Sciences Europe* 30 (1), 1-17, 2018 (24) [Web of Science](#)

Web of science

1. Nurkassimova, M., Omarova, N., Zinicovscaia, I., Chaligava, O., & Yushin, N. (2024). Mosses as bioindicators of air pollution with potentially toxic elements in area with different level of anthropogenic load in Karaganda region, Kazakhstan. *Journal of Radioanalytical and Nuclear Chemistry*, 333(2), 961-970. [Web of Science](#)

45. M Sami, MMA Adam, X Lv, ESR Lasheen, **A Ene**, HMH Zakaly, SS Alarifi, Nasser M Mahdy, Abdel Rahman A Abdel Rahman, Adil Saeed, Esam S Farahat, Douaa Fathy, Shehata Ali, **Petrogenesis and Tectonic Implications of the Cryogenian I-Type Granodiorites from Gabgaba Terrane (NE Sudan)**, *Minerals* 13 (3), 331, 2023 (23) [Web of Science](#)

Web of science

1. Abdelwahab, W., & El-Shamy, A. M. (2024). Exploring Talc Deposits: Physical Characteristics, Geological Factors, and Formation in Ultramafic and Mafic Rocks—A Comprehensive Review. *Chemistry Africa*, 1-41. <https://doi.org/10.1007/s42250-024-01151-6> [Web of Science](#)
2. Sami, M., Faisal, M., Leybourne, M., Sanislav, I. V., Ahmed, M. S., & Lasheen, E. S. R. (2024). Unravelling the genesis and depositional setting of Neoproterozoic banded iron formation from central Eastern Desert, Egypt. *Frontiers in Earth Science*, 12, 1359617. <https://doi.org/10.3389/feart.2024.1359617>
3. El Saeed, R. L., Elyaseer, M. H., Mohamed, W. H., Azer, M. K., Rashwan, M. A., & Thabet, I. A. (2024). Economic feasibility of Gabal Um Takha leucogranitic intrusion, South Sinai, Egypt: Integrated remote sensing, geochemical, aeromagnetic, and geotechnical approach. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103531. <https://doi.org/10.1016/j.pce.2023.103531>
4. Zi, F., Xiao, W., Sami, M., Zhang, C., Xie, F., Liu, Y., & Li, S. (2024). Understanding the genesis of ore-bearing and ore-barren adakitic rocks: insights from geochronology and geochemical analysis of the Tuncang intrusion and enclaves along the South Tan-Lu Fault. *International Journal of Earth Sciences*, 113, 1579 -1598. <https://doi.org/10.1007/s00531-024-02465-z> [Web of Science](#)
5. Saleh, G. M., Kamh, S. Z., Abdalla, F., Kilias, A., & El Saeed, R. L. (2024). A new occurrence of rift-related damtjernite (ultramafic) lamprophyre, Gebel Anweiyib area, Arabian Nubian shield: Insights from bulk rock geochemistry and remote sensing data analysis. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103530. <https://doi.org/10.1016/j.pce.2023.103530>
6. Sidique, E., Elhaddad, M. A., Sami, M., Sanislav, I. V., Alshehri, F., Ahmed, M. S., & Abbas, H. (2024). Geochemical characteristics, hazards impact assessment and radiogenic heat production of the alkaline rocks. *Scientific Reports*, 14(1), 9121. <https://doi.org/10.1038/s41598-024-59627-x>
7. Nopeia, M., Imai, A., Yonezu, K., Takahashi, R., Agangi, A., & Jamal, D. (2024). Timing and Origin of Gold Mineralization in the Neoproterozoic Xixano Complex, Mozambique Belt, Northeastern Mozambique: Case Study of the Nanlia and Makorongo Prospects. *Journal of African Earth Sciences*, 218, 105350. <https://doi.org/10.1016/j.jafrearsci.2024.105350>
8. Mashaal, S., Abdel-Bary, A., & Ragab, A. (2024). Origin of the post-orogenic dyke swarms of Saharan Metacraton, at Qaret El-Maiyit-Bir Safsaf area, southwest Egypt: Constraints on the magmatic-tectonic processes at the end of the Precambrian. *Journal of African Earth Sciences*, 219, 105378. [Web of Science](#)
9. El-Awady, A., Sami, M., Abari, R., Fathy, D., Farahat, E. S., Ahmed, M. S., & Ragab, A. (2024). Petrogenesis and Tectonic Evolution of I-and A-Type Granites of Mount Abu Kibash and Tulayah, Egypt: Evidence for Transition from Subduction to Post-Collision Magmatism. *Minerals*, 14(8), 806. <https://doi.org/10.3390/min14080806>
10. Abdel-Karim, A. A. M., Ali, S., El-Afandy, A. H., El-Awady, A., Khedr, M. Z., Tamura, A., & Elwan, W. (2024). Hamama volcanogenic massive sulfide deposits, central Eastern Desert, Egypt: mineralogical and tectonic implications. *Euro-Mediterranean Journal for Environmental Integration*, 9(1), 235-254. <https://doi.org/10.1007/s41207-023-00442-7>

46. HMH Zakaly, YS Rammah, HO Tekin, **A Ene**, A Badawi, SAM Issa, **Nuclear shielding performances of borate/sodium/potassium glasses doped with Sm³⁺ ions**, *Journal of Materials Research and Technology* 18, 1424-1435, 2022 (23)

Web of Science

1. Al Huwayz, M., Basha, B., Alalawi, A., Alrowaili, Z. A., Sriwunkum, C., Alsaiari, N. S., & Al-Buriali, M. S. (2024). Influence of BaO addition on gamma attenuation and radiation shielding performance of SiO₂-B₂O₃-SrO-ZrO₂ glasses. *Journal of Radiation Research and Applied Sciences*, 17(4), 101119. <https://doi.org/10.1016/j.jrras.2024.101119>
2. Dhinakaran, A. P., Vinothkumar, P., Senthil, T. S., & Kalpana, S. (2024). Investigation on structural, optical properties of Sm³⁺ doped antimony boro-phosphate glass for warm white light emitting diode and radiation shielding applications. *Journal of Optics*, 1-15. <https://doi.org/10.1007/s12596-024-02113-4>
3. Ifran, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Principles-based investigation of lithium-based halide perovskite X₂LiAlH₆ (X= K, Mn) for hydrogen storage, optoelectronic, and radiation shielding applications. *International Journal of Hydrogen Energy*, 91, 775-786. <https://doi.org/10.1016/j.ijhydene.2024.10.081>
4. Kubati, K. M., Alrowaili, Z. A., Olarinoye, I. O., & Al-Buriali, M. S. (2024). Optical properties and radiation protection applications of B₂O₃: Na₂O: PbO: Tb₂O₃: Bi₂O₃ glass system. *Optical and Quantum Electronics*, 56(4), 625.

5. Sayyed, M. I., Almuqrin, A. H., & Mahmoud, K. A. (2024). Detailed investigations for mechanical and gamma-ray attenuation characteristics of B2O3-ZnO-BaO-TiO2 glasses doped with PbO. *Journal of Materials Research and Technology*, 30, 3011-3020. <https://doi.org/10.1007/s11082-024-06329-3>
6. Althobaiti, M. G., Alosaimi, M. A., Alharthi, S. S., Alotaibi, A. A., & Badawi, A. (2024). Tailoring the optical performance of sprayed NiO nanostructured films through cobalt doping for optoelectronic device applications. *Optical Materials*, 151, 115341. <https://doi.org/10.1016/j.optmat.2024.115341>
7. Negm, H. H., Sdeek, A. A., & Ebrahim, A. A. (2024). The Role of Ytterbium (Yb2O3) in the Radiation Shielding Properties of Barium Titanium Borate Glasses (B2O3-TiO2-BaO) in Terms of γ and β Radiations. *Journal of Electronic Materials*, 53, pages 3965 – 3979. <https://doi.org/10.1007/s11664-024-11073-1> Web of Science
8. Devidas, A., Sankarappa, T., Malge, A., Heerasingh, M., Dyama, A., & Pallavi, J. (2024). Effect of Sm2O3 on thermal, optical, mechanical, gamma and neutron shielding properties of zinc-boro-vanadate glasses. *Physica Scripta*, 99(11), 115931. DOI 10.1088/1402-4896/ad8044 Web of Science

47. Huseyin O. Tekin, Ghaida Bilal, Hesham H.M. Zakaly, Gokhan Kilic, Shams A.M. Issa, Emad M. Ahmed, Yasser S. Rammah, Antoaneta Ene, Newly Developed Vanadium-Based Glasses and Their Potential for Nuclear Radiation Shielding Aims: A Monte Carlo Study on Gamma Ray Attenuation Parameters, *Materials* 14 (14), 3897, 2021 (25) Web of science

Web of Science

1. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi2O3 modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
2. Mansy, M. S., El-Shamy, E. A., Khalil, K. F., Elawady, M. E., Abd El-Kader, H., & Malek, K. A. (2024). Impact of natural aggregates and some industrial wastes on radiation shielding properties of heavyweight concrete: experimental and theoretical study. *Radiation Physics and Chemistry*, 223, 112007. <https://doi.org/10.1016/j.radphyschem.2024.112007>
3. Güler, Ö, Kilic, G., Kavaz, E., Ilik, E., Guler, S. H., ALMIsned, G., & Tekin, H. O. (2024). First-ever Fusion of High Entropy Alloy (HEA) with Glass: Enhancing of critical properties of Zinc-Tellurite Glass through TiZrNbHfTaOx incorporation. *Ceramics International*, 50(20), pages 39927-39939. <https://doi.org/10.1016/j.ceramint.2024.07.375>
4. Kilic, G., Güler, Ö., Kavaz, E., Ilik, E., Guler, S. H., ALMIsned, G., & Tekin, H. O. (2024). A first-time fusion of TiNbWMoZrOx high entropy oxide (HEO) with zinc-tellurite glass: Toward superior physical properties. *Journal of Non-Crystalline Solids*, 642, 123161. <https://doi.org/10.1016/j.jnoncrysol.2024.123161> Web of Science
5. Mansy, M. S., Ghobashy, M. M., & Aly, M. I. (2024). Enhancing gamma and neutron radiation shielding efficiency of LDPE/PVC polymers using cobalt, aluminum, and magnesium oxide fillers. *Radiation Physics and Chemistry*, 222, 111862. <https://doi.org/10.1016/j.radphyschem.2024.111862> Web of Science
6. Devidas, A., Sankarappa, T., Malge, A., Heerasingh, M., Dyama, A., & Pallavi, J. (2024). Effect of Sm2O3 on thermal, optical, mechanical, gamma and neutron shielding properties of zinc-boro-vanadate glasses. *Physica Scripta*, 99(11), 115931. DOI 10.1088/1402-4896/ad8044

48. SS Moraru, A Ene, A Badila, Physical and hydro-physical characteristics of soil in the context of climate change. A case study in Danube river basin, SE Romania, *Sustainability* 12 (22), 9174, 2020 (23) Web of Science

Web of Science

1. Fadl, M. E., Sayed, Y. A., El-Desoky, A. I., Shams, E. M., Zekari, M., Abdelsamie, E. A., Marios Drosos & Scopa, A. (2024). Irrigation Practices and Their Effects on Soil Quality and Soil Characteristics in Arid Lands: A Comprehensive Geomatic Analysis. *Soil Systems*, 8(2), 52. <https://doi.org/10.3390/soilsystems8020052>
2. Iordache, M., Brei, L., Radulov, I., Gaica, I., Dicu, D., & Chis, C. (2024). The water repellency of earthworm (*Lumbricus terrestris*) casts depends on their particle size composition, organic carbon content and calcium carbonate content. *Soil and Water Research*, X:X | DOI: 10.17221/93/2023-SWR
3. Andonova-Katsarski, M., Varbanov, V., Kazakov, S., Dedov, I., & Vladova, D. (2024). Plant Remains and What Else? Environmental Archaeology of the Late Hellenistic Pit Fills of Sexaginta Prista, Northern Bulgaria. *Environmental Archaeology*. <https://doi.org/10.1080/14614103.2024.2322865> Web of Science
4. Muhammad Riaz Ejaz, Kareem Badr, Zahoor Ul Hassan, Roda Al-Thani, Samir Jaoua, mMetagenomic approaches and opportunities in arid soil research, *Science of The Total Environment*, Volume 953, 25 November 2024, 176173, <https://doi.org/10.1016/j.scitotenv.2024.176173>

49. G ALMIsned, HO Tekin, SAM Issa, MC Ersundu, AE Ersundu, G Kilic, Hesham MH Zakaly, Antoaneta Ene, Novel HMO-Glasses with Sb₂O₃ and TeO₂ for Nuclear Radiation Shielding Purposes: A Comparative Analysis with Traditional and Novel Shields, *Materials* 14 (15), 4330, 2021 (22) Web of Science

Web of science

1. Almousa, N., Abouhaswa, A. S., Issa, S. A., Nabil, I. M., & Zakaly, H. M. (2024). Influence of Titanium Dioxide Doping on the Attenuation and Optical Characteristics of Magnesium Borate Glass Systems. *Ceramics International*, 50(13), 24156-24166. <https://doi.org/10.1016/j.ceramint.2024.04.147>
2. Hannachi, E., Sayyed, M. I., Slimani, Y., & Mahmoud, K. A. (2024). Assessment of shielding efficiency of highly energetic electromagnetic radiation for lead-free cuprate-class material: Effect of MnFe2O4 ratios. *Inorganic Chemistry Communications*, 169, 112996. <https://doi.org/10.1016/j.inoche.2024.112996> Web of Science
3. ALMIsned, G. (2024). Exploring a monotonically non-decreasing behavioral function on shielding properties and transmission factors in borosilicate glasses through heavy metal oxide reinforcement. *Radiation Physics and Chemistry*, 214, 111262.
4. ALMIsned, G., Sen Baykal, D., Elshami, W., Susoy, G., Kilic, G., & Tekin, H. O. (2024). A comparative analysis of shielding effectiveness in glass and concrete containers. *Open Physics*, 22(1), 20240019. <https://doi.org/10.1515/phys-2024-0019>

50. Marina Frontasyeva, Harry Harmens, Alexander Uzhinskiy, Omar Chaligava, and participants of the moss survey, Mosses as biomonitor of air pollution: 2015/2016 survey on heavy metals, nitrogen and POPs in Europe and beyond, 2020 (22) Web of science

Web of science

1. Gatina, E., Zinicovscaia, I., Yushin, N., Chaligava, O., Frontasyeva, M., & Sharipova, A. (2024). Assessment of the Atmospheric Deposition of Potentially Toxic Elements Using Moss Pleurozium schreberi in an Urban Area: The Perm (Perm Region, Russia) Case Study. *Plants*, 13(17), 2353. <https://doi.org/10.3390/plants13172353>
2. Lazarus, M., Sergiel, A., Orct, T., Ferencaković, M., Lovaković, B. T., Žunec, S., Dubravka Rašić, Ena Oster, Slaven Reljić, Joanna Macur, & Huber, Đ. (2024). Apex carnivores coping with metal (loid) pollution and oxidative stress: Biological and environmental drivers of variation in kidney of European brown bear. *Environmental Pollution*, 363, 125285. <https://doi.org/10.1016/j.envpol.2024.125285>
3. Warczyk, A., Gruba, P., Józefowska, A., Wanic, T., Warczyk, A., Świątek, B., Julita Bujak & Pietrzkyowski, M. (2024). Accumulation of Heavy Metals in Blueberry (*Vaccinium myrtillus* L.) and Dominant Mosses (*Pleurozium schreberi* (Willd. ex Brid.) Mitt.) as Bioindicators of the Expressway Influence on Forest Ecosystems. *Atmosphere*, 15(8), 971. <https://doi.org/10.3390/atmos15080971>

4. Barandovski, L., Stafilov, T., Šajn, R., Bačeva Andonovska, K., Frontasyeva, M., & Zinicovscaia, I. (2024). Assessment of atmospheric deposition of potentially toxic elements in macedonia using a moss biomonitoring technique. *Sustainability*, 16(2), 748. <https://doi.org/10.3390/su16020748>
5. Chaligava, O., Zinicovscaia, I., Peshkova, A., Yushin, N., Frontasyeva, M., Vergel, K., Makhabbat Nurkassimova & Cepoi, L. (2024). Major and Trace Airborne Elements and Ecological Risk Assessment: Georgia Moss Survey 2019–2023. *Plants*, 13(23), 3298. <https://doi.org/10.3390/plants13233298>
6. Ianiri, G., Fratianni, A., Avino, P., & Panfilii, G. (2024). Determination of Polycyclic Aromatic Hydrocarbons from Atmospheric Deposition in *Malva sylvestris* Leaves Using Gas Chromatography with Mass Spectrometry (GC-MS). *Atmosphere*, 15(12), 1402. <https://doi.org/10.3390/atmos15121402>
7. Sfetsas, T., Ghoghoberidze, S., Karnoutsos, P., Tziakas, V., Karagiovanidis, M., & Katsantonis, D. (2024). Spatial and Temporal Patterns of Trace Element Deposition in Urban Thessaloniki: A Syntrichia Moss Biomonitoring Study. *Atmosphere*, 15(11), 1378.
8. Bačeva Andonovska, K., Stafilov, T., Šajn, R., Jordanoska Shishkoska, B., Pelivanoska, V., & Barandovski, L. (2024). Trends in Atmospheric Nitrogen Deposition in Macedonia Studied by Using the Moss Biomonitoring Technique. *Atmosphere*, 15(11), 1297. <https://doi.org/10.3390/atmos15111297>
9. Vergel, K., Zinicovscaia, I., Yushin, N., Chaligava, O., Cepoi, L., & Kravtsova, A. (2024). Moss Biomonitoring in the Evaluation of Air Pollution in the Tver Region, Russia. *Atmosphere*, 15(10). DOI: <https://doi.org/10.3390/atmos15101191>

51. ESR Lasheen, WH Mohamed, A Ene, HA Awad, MK Azer, **Implementation of petrographical and aeromagnetic data to determine depth and structural trend of Homrit Wagga area, central Eastern Desert, Egypt**, Applied Sciences 12 (17), 8782, 2022 (21) [Web of Science](#)
Web of Science
 1. Abdelwahab, W., & El-Shamy, A. M. (2024). Exploring Talc Deposits: Physical Characteristics, Geological Factors, and Formation in Ultramafic and Mafic Rocks—A Comprehensive Review. *Chemistry Africa*, 1-41. <https://doi.org/10.1007/s42250-024-01151-6> [Web of Science](#)
 2. Hamed, M., Khaled, M. A., Said, R. E., Ghoneim, S. M., Saad, E., Abd El-Aal, M., & Sayed, A. E. D. H. (2024). Patterns distribution, concentrations and sources of radioactive elements from black sand in the Red Sea coast, Egypt. *Journal of Hazardous Materials*, 480, 136051. [Web of Science](#)
 3. Khaleal, F. M., Lentz, D. R., Kamh, S. Z., Saleh, G. M., Abdalla, F., & El Saeed, R. L. (2024). Remote sensing analysis and geodynamic setting of magmatic spessartine-almandine-bearing leucogranites, Um Addebaa area, southeastern Desert, Egypt: Bulk rock and mineral chemistry. *Physics and Chemistry of the Earth, Parts A/B/C*, 103749. <https://doi.org/10.1016/j.pce.2024.103749>
 4. El Saeed, R. L., Elyaseer, M. H., Mohamed, W. H., Azer, M. K., Rashwan, M. A., & Thabet, I. A. (2024). Economic feasibility of Gabal Um Takha leucogranitic intrusion, South Sinai, Egypt: Integrated remote sensing, geochemical, aeromagnetic, and geotechnical approach. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103531. <https://doi.org/10.1016/j.pce.2023.103531>

53. ESR Lasheen, HMH Zakaly, BM Alotaibi, DA Saadawi, A Ene, D Fathy, Hamdy A Awad, Raafat M El Attar **Radiological Risk Parameters of the Phosphorite Deposits, Gebel Qulu El Sabaya: Natural Radioactivity and Geochemical Characteristics**, Minerals 12 (11), 1385, 2022 (20) [Web of Science](#)
Web of Science
 1. Khaleal, F. M., Lentz, D. R., Kamh, S. Z., Saleh, G. M., Abdalla, F., & El Saeed, R. L. (2024). Remote sensing analysis and geodynamic setting of magmatic spessartine-almandine-bearing leucogranites, Um Addebaa area, southeastern Desert, Egypt: Bulk rock and mineral chemistry. *Physics and Chemistry of the Earth, Parts A/B/C*, 136, 103749. <https://doi.org/10.1016/j.pce.2024.103749>
 2. Fathy, D., Farouk, S., Oteishat, A., Ahmad, F., Sami, M., El-Kahtany, K., & Lee, E. Y. (2024). Geochemical characterization of Upper Cretaceous organic-rich deposits: Insights from the Azraq Basin in Jordan. *Journal of Asian Earth Sciences*, 276, 106365. [Web of Science](#).
 3. Podgórska, M., & Jóźwiak, M. (2024). Heavy metals contamination of post-mining mounds of former iron-ore mining activity. *International Journal of Environmental Science and Technology*, 21(4), 4645-4652. <https://doi.org/10.1007/s13762-023-05206-y>
 4. Sidique, E., Elhaddad, M. A., Sami, M., Sanislav, I. V., Alshehri, F., Ahmed, M. S., & Abbas, H. (2024). Geochemical characteristics, hazards impact assessment and radiogenic heat production of the alkaline rocks. *Scientific Reports*, 14(1), 1-21. <https://doi.org/10.1038/s41598-024-59627-x>
 5. Diab, I., Laouar, R., Bosch, D., Tili, A., Degachia, A., Bruguer, O., Mourad Zaabat, Salah Bouhlel & Kechiched, R. (2024). The Ain Dibba and Ain Kissa phosphorites, Tebessa (NE Algeria): REE depletion versus shallow, open depositional environment during the Paleocene-Eocene phosphogenesis in North Africa. *Journal of African Earth Sciences*, 220, 105433. [Web of Science](#)

54. HO Tekin, G ALMisned, YS Rammah, EM Ahmed, FT Ali, DS Baykal, Wiam Elshami, Hesham MH Zakaly, Shams AM Issa, G Kilic, **Antoaneta Ene, Transmission factors, mechanical, and gamma ray attenuation properties of barium-phosphate-tungsten glasses: Incorporation impact of WO₃**, Optik 267, 169643, 2022 (20)
 1. Solak, B. B., Aktas, B., Yilmaz, D., Kalecik, S., Yalcin, S., Acikgoz, A., & Demircan, G. (2024). Exploring the radiation shielding properties of B2O3-PbO-TeO2-CeO2-WO3 glasses: a comprehensive study on structural, mechanical, gamma, and neutron attenuation characteristics. *Materials Chemistry and Physics*, 312, 128672. <https://doi.org/10.1016/j.matchemphys.2023.128672>
 2. Bakri, F., Gareso, P. L., Armynah, B., & Tahir, D. (2024). A Comparative Study of Glass-Based Material Counter to X-ray, Gamma-ray, and Proton and Neutron Radiation: A Review. *Radiation Physics and Chemistry*, 226, 112270.
 3. Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Koubisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*.
 4. Negm, H., Abd-Allah, H., Abdel-Latif, A. Y., Abdel-Rahim, M. A., El-Taher, A., & Shaalan, N. M. (2024). Fabrication and characterization of structured Zn1-xCdxWO4 (0≤ x≤ 1) with tunable photoluminescent and promising applicable heterometallic nanocomposites in shielding properties. *Radiation Physics and Chemistry*, 215, 111335. <https://doi.org/10.1016/j.radphyschem.2023.111335>
 5. Tekin, H. O., ALMisned, G., Kilic, G. Ö. K. H. A. N., Ilik, E. R. K. A. N., Susoy, G., Elshami, W., & Issa, B. (2024). A critical assessment of the mechanical strength and radiation shielding efficiency of advanced Concrete composites and Vanadium Oxide-Glass container for enhanced nuclear waste management. *Results in Physics*, 64, 107901. <https://doi.org/10.1016/j.rinp.2024.107901>
 6. Alharshan, G. A., Shaaban, S. M., Said, S. A., Ebrahem, N. M., Mahmoud, A. M. A., Mesalam, Y. I., & Elsad, R. A. (2024). Impact of europium oxide on structural, dielectric, and radiation-shielding properties of zinc lithium borate glasses. *Optical and Quantum Electronics*, 56(8), 1354. [Web of Science](#)
 7. Boontueng, P., Pencharee, S., Mutuwong, C., Kaewkhaeo, J., Thongjerm, P., Wonglee, S., S. Kothan, N. Intachai & Kobdaj, C. (2024). Optimizing the Composition of Barium-Borate Glasses for Enhancing Thermal Neutron Shielding Efficiency: Monte Carlo Simulation. *Radiation Physics and Chemistry*, 223, 111937. [Web of Science](#)
 8. Al Huwayz, M., Almuqrin, A. H., Shaaban, S. M., Ebrahem, N. M., Said, S. A., Elsad, R. A., & Mahmoud, A. M. A. (2024). Synthesis, optical, and gamma attenuation properties of lead-doped borosilicate glasses. *Journal of Materials Science: Materials in Electronics*, 35(16), 1082. <https://doi.org/10.1007/s10854-024-12845-5>

9. Almuqrin, A. H., Sayyed, M. I., Aloraini, D. A., & Kumar, A. (2024). Physical, optical and mechanical properties of BaO-WO₃-P₂O₅ (BWP) glass system for radiation shielding. *Optical and Quantum Electronics*, 56(6), 914. <https://doi.org/10.1007/s11082-024-06718-8>
10. Alan, H. Y., ALMisned, G., Yilmaz, A., Susam, L. A., Ilk, E. R. K. A. N., Kilic, G., ... & Tekin, H. O. (2024). An investigation on protection properties of Tantalum (V) oxide reinforced glass screens on unexposed breast tissue for mammography examinations. *Radiography*, 30(1), 282-287. <https://doi.org/10.1016/j.radi.2023.11.020>
11. Maryam, N., Hossein, T. A., & Ehsan, E. (2024). Investigation of nano MgO loaded polyvinyl chloride polymer in protective clothing as a nonlead materials. *Heliyon*, volume 10, issue 12, e32711. <https://doi.org/10.1016/j.heliyon.2024.e32711>

55. Huseyin O Tekin, Ghada ALMisned, Gulferm Susoy, Fatema T Ali, Duygu Sen Baykal, **Antoaneta Ene**, Shams AM Issa, Yasser S Rammah, Hesham MH Zakaly, **Transmission Factor (TF) Behavior of Bi₂O₃-TeO₂-Na₂O-TiO₂-ZnO Glass System: A Monte Carlo Simulation Study**, *Sustainability* 14 (5), 2893, 2022 (20) [Web of Science](#)

[Web of Science](#)

1. ALMisned, G., Susoy, G., Baykal, D. S., & Tekin, H. O. (2024). A comparative investigation on mechanical, gamma-ray and neutron shielding properties of some iron and boron containing concretes samples for nuclear safety applications. *Radiation Physics and Chemistry*, 223, 111987. <https://doi.org/10.1016/j.radphyschem.2024.111987> [Web of Science](#)
2. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi2O3 modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
3. Alomari, A. H. (2024). Elucidating the multiple contributions of increasing MoO₃ concentration on phosphate glasses for radiation safety applications. *Radiation Physics and Chemistry*, 218, 111593. [Web of Science](#)
4. Shi, J., Wang, L., Xie, H., Yao, S., Pu, X., Liu, Z., Xiaojiang Chen & Ding, Y. (2024). Effect of PbO on the chemical durability of low-temperature PbO-B2O₃-ZnO glass for cesium immobilization. *Ceramics International*, 50(12), 20851-20859.
5. <https://doi.org/10.1016/j.ceramint.2024.02.349>
6. ALMisned, G., Rammah, Y. S., Zakaly, H. M., Baykal, D. S., Issa, S. A., Ene, A., & Tekin, H. O. (2024). Sodium metaphosphate-tungsten trioxide glasses: a characterization study on gamma-ray shielding properties and transmission factors (TFs). *Journal of the Australian Ceramic Society*, 60(4), 1005-1017. <https://doi.org/10.1007/s41779-023-00980-x>
7. Biradar, S., Chandrashekara, M. N., Dinkar, A., Devidas, G. B., Bennal, A. S., Sayyed, M. I., & Es-soufi, H. (2024). A multifaceted study of B2O₃-BaO-PbO-WO₃ glasses doped with Bi2O₃: Insights from physical, thermal, structural, mechanical and optical analyses towards improved shielding properties. *Ceramics International*, Volume 50(17), part A, pages 29332-29345. [Web of Science](#)
8. ALMisned, G., Sen Baykal, D., Elshami, W., Susoy, G., Kilic, G., & Tekin, H. O. (2024). A comparative analysis of shielding effectiveness in glass and concrete containers. *Open Physics*, 22(1), 20240019.

57. AA Alluhaybi, A Alharbi, AM Hameed, AA Gouda, FS Hassen, Hassan S El-Gendy, Bahig M Atia, Amany R Salem, Mohamed A Gado, **Antoaneta Ene**, Hamdy A Awad, Hesham MH Zakaly, **A Novel Triazole Schiff Base Derivatives for Remediation of Chromium Contamination from Tannery Waste Water**, *Molecules* 27 (16), 5087, 2022 (21) [Web of Science](#)

[Web of science](#)

1. Mahmoud, S. A., Atia, B. M., & Abdalla, M. (2024). Polyvinyl alcohol-conjugated L-cysteine: a novel metal pincer for efficient heavy metal ions removal from wastewater. *ChemistrySelect*, 9(26), e202401169. <https://doi.org/10.1002/slct.202401169>
2. Awwad, N. S., Younis, H. M., Ibrahim, H. A., Atia, B. M., & Gado, M. A. (2024). Efficient and sustainable design of pyridyl-bis-thiourea pincer ligand-immobilised Merrifield polymer precursor for arsenic ions adsorption. *International Journal of Environmental Analytical Chemistry*, 1-32. <https://doi.org/10.1080/03067319.2024.2371999>
3. Mahmoud, S. A., Mohamed, B., Galal Amin, L., & Abdalla, M. (2024). Innovative pyrazole-phosphoramidate derivative for effective mercury adsorption and their application for Egyptian industrial waste samples. *International Journal of Environmental Analytical Chemistry*, 1-29. [Web of Science https://doi.org/10.1080/03067319.2024.2385030](https://doi.org/10.1080/03067319.2024.2385030)
4. Gholami, M. D., Alzubaidi, F. M., Liu, Q., Izake, E. L., & Sonar, P. (2024). Rapidly and Simply Detecting Cr (VI) in Aqueous Media via A Diketopyrrolopyrrole-Based Chemosensor with Both High Selectivity and Low LOD. *Analytica Chimica Acta*, 1316, 342861. <https://doi.org/10.1016/j.aca.2024.342861>
5. Mahmoud, S. A., Atia, B. M., Amin, L. G., & Abdalla, M. (2024). Innovative preparation of multi-dentate Schiff base adsorbent for the adsorption of silver and its application on nano silver particles preparation from liquid photographic wastes. *Journal of Chemical Technology & Biotechnology*. <https://doi.org/10.1002/ictb.7787>
6. Alghandi, A. A., Hanfi, M. Y., Sakr, A. K., Sayyed, M. I., & Almuqrin, A. (2024). Effective and sustainable removal of Pb²⁺ ions from wastewater by a new synthetic bis-thiosemicarbazone derivative immobilized in amberlite XAD-2: Kinetic, isotherm and thermodynamic aspects. *Separation Science and Technology*, 59, issue 15. <https://doi.org/10.1080/01496395.2024.2386539>
7. Amin, A. M., Ibrahim, H. A., Gouda, A. A., Sheikh, R. E., Atia, B. M., Gado, M. A., & Awwad, N. S. (2024). Design and utilisation of a novel poly imino-phosphorane composite for the effective removal of Pb²⁺ and Cr³⁺ ions from contaminated water sources. *International Journal of Environmental Analytical Chemistry*, 1-28. <https://doi.org/10.1080/03067319.2024.2420827> [Web of Science](#)
8. Younis, H. M. (2024). Thiocarbamoyl sulfamic acid-derived mesoporous silica: a comprehensive study on selective adsorption of cobalt and lithium from spent lithium-ion batteries. *Journal of Chemical Technology & Biotechnology*, 99(6), 1308-1324. <https://doi.org/10.1002/ctb.7625>
9. Younis, H. M., & Mohamed, A. A. (2024). A promising modified polyvinyl chloride for adsorption of boron: Preparation, adsorption kinetics, isotherm, and thermodynamic studies. *Journal of Vinyl and Additive Technology*, 30(1), 326-348. <https://doi.org/10.1002/vnl.22052>

58. HA Saudi, HT Abedelkader, SAM Issa, HM Diab, GA Alharshan, Mohamed AM Uosif, Ibrahim I Bashter, **Antoaneta Ene**, M El Ghazaly, Hesham MH Zakaly, **An In-Depth Examination of the Natural Radiation and Radioactive Dangers Associated with Regularly Used Medicinal Herbs**, *International Journal of Environmental Research and Public Health* 19 (13), 8124, 2022 (18) [Web of Science](#)

[Web of Science](#)

1. Zakaly, H. M., Awad, H. A., El Saeed, R. L., Issa, S. A., Elsaman, R., Khandaker, M. U., Hezam Al-awah, Douaa Fathy & Sami, M. (2024). Radiometric and petrographic characterization of El-Yatima granite: Evaluating radiological risks and mineralogical features. *Radiation Physics and Chemistry*, 224, 111992. <https://doi.org/10.1016/j.radphyschem.2024.111992>
2. Seif, R. A., **Ene, A.**, Zakaly, H. M., Sallam, A. M., Taalab, S. A., Fnais, M. S., Diaa A. Saadawi, Shaimaa A. Amer & Awad, H. A. (2024). Distribution of Heavy Metals along the Mediterranean Shoreline from Baltim to El-Burullus (Egypt): Consequences for Possible Contamination. *Minerals*, 14(9), 931. <https://doi.org/10.3390/min14090931>
3. Zakaly, H. M., Elsaman, R., Kamal, M., Issa, S. A., Abbasi, A., Shen, J., Atef El-Taher, Chee Kong Yap, Elsayed Abdelbaky & Seleem, E. M. M. (2024). Natural radiological risk assessment around archaeological sites, El-Dakhla Oasis (EDO), Egypt. *Journal of Radioanalytical and Nuclear Chemistry*, 333, 5335 – 5346. <https://doi.org/10.1007/s10967-024-09618-z>
4. AE Hamed, E. S., Uosif, M. M., Khalifa, M. M., Elgendi, A. R., Abbasi, A., Awad, H. A., **Antoaneta Ene** & Zakaly, H. M. (2024). The Heavy Metal Pollution Level and Risk Assessment in Marine Gastropods of Sediments of the Red Sea Coast. *Environmental Forensics*, 1-11. <https://doi.org/10.1080/15275922.2024.2431324>

5. Khanal, M., Acharya, A., Maharjan, R., Upadhyay, D. R., Dhobi, S. H., Shah, B. R., Rameshwar Adhikari, Deependra Das Mulmi, Tika Ram Lamichhane & Lamichhane, H. P. (2024). Investigation of naturally occurring radionuclides in selected medicinal plants and associated soils, and calculation of soil-to-plant transfer factors. *Journal of Environmental Radioactivity*, 280, 107556.
6. Zakaly HM, Awad HA, Abbasi A, Almousa N, Elsaman R, El-Salam A, Lotfy M, Mostafa AM, Issa SA. Radioactive and mineralogical assessment of mediterranean black sands: a systematic analysis and health risk evaluation. *Journal of Radioanalytical and Nuclear Chemistry*. 2024, 333(4), 1937- 1947. [Web of Science](#)
7. Hossen, M. J., Haydar, M. A., Rahman, M. A., Ali, M. I., Paul, D., Asaduzzaman, K., M. M. Hossain Miah & Khandaker, M. U. (2024). Committed effective dose due to the intake of medicinal plants and herbs by the Bangladeshi populace. *International Journal of Environmental Analytical Chemistry*, 1-13. <https://doi.org/10.1080/03067319.2024.2359647>
8. Suji, M., & Shanthi, G. (2024). Assessment of natural radioactivity and radiological hazards in rocks from Thiruvananthapuram, Kerala. *Journal of Radioanalytical and Nuclear Chemistry*, 1-12. <https://doi.org/10.1007/s10967-024-09720-2>
9. Ghalachyan, L., Mairapetyan, S., Tadevosyan, A., Hovhannisan, L., Vardanyan, A., Mairapetyan, K., Mahsa Daryadar, Ruben Siseryan, Anahit Tovmasyan, Anjelika Stepanyan, Armenuhi Asatryan & Hakobyan, A. (2024). The study of biologically active compounds and gross β -radioactivity of some vegetables and medicinal plants in conditions of outdoor hydroponic systems and soil culture in Ararat Valley. *Functional Foods in Health and Disease*, 14(8), 589-599. <https://doi.org/10.31989/ffhd.v14i8.1415>
60. R Lupu, A Nat, A Ene, **Determination of gold in Romanian auriferous alluvial sands and rocks by 14 MeV neutron activation analysis**, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2004 (19) <https://doi.org/10.1016/j.nimb.2003.09.031> [Web of Science](#)
1. Asadieraghi, M., Isfahani, T. M., & Senejani, M. A. (2024). Development of a novel method for determination of Ultra-Trace gold in cosmetics based on ion Pair-Dispersive Liquid-Liquid microextraction Assisted syringe to syringe coupled to Tailor-Made Quartz Atom Concentrator tube-flame atomic absorption Spectrometry: Experimental design optimization. *Microchemical Journal*, 205, 111. <https://doi.org/10.1016/j.microc.2024.111213> [Web of Science](#)
61. SAM Issa, AM Almutairi, K Albalawi, OK Dakhilallah, HMH Zakaly, A Ene, Dalia E Abulyazied, Sahar M Ahmed, Rasha A Youness, Mohammed A Taha, **Production of Hybrid Nanocomposites Based on Iron Waste Reinforced with Niobium Carbide/Granite Nanoparticles with Outstanding Strength and Wear Resistance for Use in Industrial Applications**, *Nanomaterials* 13 (3), 537 2023 (18) [Web of Science](#)
1. Youness, R. A., & Taha, M. A. (2024). Tuning biodegradability, bone-bonding capacity, and wear resistance of zinc-30% magnesium intermetallic alloy for use in load-bearing bone applications. *Scientific Reports*, 14(1), 2425. [Web of Science](#)
2. Khoshaim, A. B., Moustafa, E. B., & Youness, R. A. (2024). Antibacterial, mechanical, and dielectric properties of hydroxyapatite cordierite/zirconia porous nanocomposites for use in bone tissue engineering applications. *Nanotechnology Reviews*, 13(1), 20230175. [Web of Science](#)
3. Youness, R. A., & Taha, M. A. (2024). Relationship between ceramic additives and improved biodegradability, osseointegration, and surface roughness of Ni-Ti shape memory alloy for use in load-bearing bone site applications. *Ceramics International*, Volume 50, Issue 14, Pages 25434-25452. [Web of Science](#)
4. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
5. Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Koubisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*. 5 (22) , pp.8864-8877 <https://doi.org/10.1039/d3ma01062g>
6. El-Zaidia, M. M., Zaki, M. Z., Abomostafa, H. M., & Taha, M. A. (2024). Comprehensive studies for evaluating promising properties of Cu/graphene/fly ash nanocomposites. *Scientific Reports*, 14(1), 2236. <https://doi.org/10.1038/s41598-024-52563-w>
7. Arunprasath, K., Amuthakkannan, P., Sundarakannan, R., Manikandan, V., & Singh, L. K. (2024). Mechanical, Wear, and Low-Velocity Impact Studies of AL7075/Basalt/Mica Particle Hybrid Metal Matrix Composite through Stir Casting Route. *Journal of Materials Engineering and Performance*, 1-13. <https://doi.org/10.1007/s11665-024-09951-0>
8. Youness, R. A., Zawrah, M. F., & Taha, M. A. (2024). Fabrication of akermanite scaffolds with high bioactivity and mechanical properties suitable for bone tissue engineering application. *Ceramics International*. Volume 50, Issue 18, Part A, Pages 32253-32264. [Web of Science](#)
9. Işık, E., Taşkın, A., & Şenel, M. C. (2024). Investigation of Mechanical and Tribological Properties of Al7075-Al₂O₃-GNPs Hybrid Composites Produced by Powder Metallurgy and Induction Hot Pressing. *Journal of Materials Engineering and Performance*, 1-14. <https://doi.org/10.1007/s11665-024-09685-z> [Web of Science](#)
10. Moustafa, E. B., Said, M., Aljabri, A., Taha, M. A., Youness, R. A., & Hussein, H. (2024). Fabrication and Characterization of Functionally Graded Nanocomposites: Impact of Graphene and Vanadium Carbide on Aluminum Matrix. *ECS Journal of Solid State Science and Technology*, 13(5), 053012. <https://doi.org/10.1016/j.ceramint.2024.06.033>
62. G ALMisned, HO Tekin, HMH Zakaly, SAM Issa, G Kilic, HA Saudi, Merfat Algethami, Antoaneta Ene, **Fast Neutron and Gamma-Ray Attenuation Properties of Some HMO Tellurite-Tungstate-Antimonate Glasses: Impact of Sm³⁺ Ions**, *Applied Sciences* 11 (21), 10168, 2021 (17) [Web of Science](#)
1. Al-Ghamdi, H., Alsaif, N. A., Alfrayan, N., Rammah, Y. S., & Nabil, I. M. (2024). Investigation of gamma-ray and neutron protection competence of oxyfluoride aluminosilicate glasses reinforced with TbF₃: Comparative study. *Radiation Physics and Chemistry*, 224, 112105. [Web of Science](#)
2. Bassam, S. A., Naseer, K. A., Mahmoud, K. A., Sangeeth, C. S., Sayyed, M. I., Alqahtani, M. S., & El Shiekh, E. (2024). Examination of the ionizing radiation shielding behavior of the zinc boro-tellurite glasses doped with dysprosium oxide. *Radiation Physics and Chemistry*, 215, 111359 <https://doi.org/10.1016/j.radphyschem.2023.111359>
3. Al-Ghamdi, H., Alfrayan, N., Alsaif, N. A., Rammah, Y. S., Abo-Mosallam, H. A., & Mahdy, E. A. (2024). Efficiency of K₂WO₄ containing a newly synthesized phosphate based glasses: Physical, thermal properties, FTIR spectroscopy and γ -ray shielding parameters. *Radiation Physics and Chemistry*, 224, 112068. [Web of Science](#)
4. Almousa, N., Nabil, I. M., Issa, S. A., & Zakaly, H. M. (2024). Enhancing Radiation Shielding with Gadolinium (III) Oxide in Cerium (III) Fluoride-Doped Silica Borate Glass. *Science and Technology of Nuclear Installations*, 2024(1), 8910531. <https://doi.org/10.1155/2024/8910531>
5. Alan, H. Y., ALMisned, G., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., E. Ilk, Bahar Tuysuz, Selin Ece Topuzlar, Baki Akkus & Tekin, H. O. (2024). Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation. *Journal of the Australian Ceramic Society*, 60(3), 823-832. <https://doi.org/10.1007/s41779-023-00984-7>
6. Ennouri, M., Mechregui, I., Melhi, S., Sayyed, M. I., Trabelsi, A. B. G., Alkallas, F. H., & Elhouiche, H. (2024). New insights on luminescence properties and radiation shielding features of Ag/Sm³⁺ co-doped fluoro-tellurite glasses and glass-ceramics. *Optical Materials*, 149, 114989. [Web of Science](#)
7. Baselga, S., & Montbarbon, E. (2024). Neutron and Gamma Pulse Shape Discrimination by Robust Determination of the Decay Shape. *Applied Sciences*, 14(13), 5532. <https://doi.org/10.3390/app14135532>

63. ZY Khattari, HMH Zakaly, AW Alrowaili, A Ene, MS Shams, SAM Issa, RA Elsad, YS Rammah, **A comprehensive study on optical, physical, mechanical and radiation shielding properties of calcium bismuth borophosphate glass-ceramics with distinct V2O5 contents**, Optical and Quantum Electronics 56 (1), 10, 2024 (18)

Web of Science

1. Sallam, O. I., Rammah, Y. S., Nabil, I. M., & El-Seidy, A. M. (2024). Enhanced optical and structural traits of irradiated lead borate glasses via Ce³⁺ and Dy³⁺ ions with studying Radiation shielding performance. *Scientific Reports*, 14(1), 24478.
2. <https://doi.org/10.1038/s41598-024-73892-w>
3. Al-Ghamdi, H., Alsaif, N. A., Alfryyan, N., Rammah, Y. S., & Nabil, I. M. (2024). Investigation of gamma-ray and neutron protection competence of oxyfluoride aluminosilicate glasses reinforced with TbF₃: Comparative study. *Radiation Physics and Chemistry*, 224, 112105. **Web of science**
4. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., Shaaban, S. M., Rammah, Y. S., Shams, M. S., R. A. Elsad, A. M. A. Mahmoud, Yehya I. Mesalam & Nabil, I. M. (2024). Optical and gamma-ray attenuation of cobalt and lanthanum-doped sodium zinc lead borate glass. *Journal of Materials Science: Materials in Electronics*, 35(21), 1458. <https://doi.org/10.1007/s10854-024-13168-1>
5. Alsaif, N. A., Al-Ghamdi, H., Elsad, R. A., Abdelghany, A. M., Shaaban, S. M., Rammah, Y. S., & Nabil, I. M. (2024). Fabrication, physical properties and γ-ray shielding factors of high dense B₂O₃-PbO-Na₂O-CdO-ZnO glasses: impact of B₂O₃/PbO substitution. *Journal of Materials Science: Materials in Electronics*, 35(7), 534. <https://doi.org/10.1007/s10854-024-12290-4>
6. Alzahrani, J. S., Alrowaili, Z. A., Olarinoye, I. O., Sriwunkum, C., & Al-Buraiha, M. S. (2024). Broad and Narrow Photon Transmission and Energy Absorption Parameters of SiO₂-Al₂O₃-Na₂O-NaF-YF₃ Silicate Glasses. *Silicon*, 16, pages 5405 - 5416. <https://doi.org/10.1007/s12633-024-03091-9>
7. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., El-Refaey, A. M., Elsad, R. A., Shams, M. S., Y. S. Rammah, M. S. Sadeq, Shaaban M. Shaaban & Nabil, I. M. (2024). The impact of TiO₂ on physical, optical characteristics and shielding qualities against γ-ray features of titanium bismo-borate glasses. *Optical and Quantum Electronics*, 56(5), 816.
8. Al-Syadi, A. M., Abaker, M., Dhahe, R., & Elkenny, E. B. (2024). Correlation between crystallite size and electrical transport in nano-crystallized Na₂O-TiO₂-V₂O₅-P₂O₅ glass-ceramics. *Journal of Materials Science: Materials in Electronics*, 35(28), 1-14. <https://doi.org/10.1007/s10854-024-13644-8>
9. Al-Ghamdi, H., Alfryyan, N., Alsaif, N. A., Mahdy, E. A., Abo-Mosallam, H. A., Nabil, I. M., & Rammah, Y. S. (2024). Assessment of γ-ray and neutron safeguard competence of phosphate glasses containing potassium tungstate: comparative study. *Journal of the Australian Ceramic Society*, 1-15. <https://doi.org/10.1007/s41779-024-01081-z>
10. Zakaly, H. M., Issa, S. A., Saudi, H. A., Algethami, M., & Soliman, T. S. (2024). Enhancing optical and radiation shielding properties: A dive into Bi₂O₃-Infused glasses. *Optical Materials*, 152, 115496.
11. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., Abdelghany, A. M., Tharwat, M., Abouhaswa, A. S., Islam M. Nabil & Rammah, Y. S. (2024). Influence of WO₃ replacement for CaO on physical, optical, and γ-ray protection properties of borotellurite glasses: a comparative study. *Ceramics International*, 50(18), part A, pages 32687-32698. **Web of Science**
12. Khalil, H. F., Malidarreh, R. B., Alabsy, M. T., Hassan, A. M., El-Khatib, A. M., Issa, S. A., & Zakaly, H. M. (2024). Structural, morphological, and γ-ray attenuation properties of m-type hexaferrite BaFe₁₂O₁₉ doped with V₂O₅, Ce₂O₃ and Bi₂O₃ for radiation shielding applications. *Ceramics International*, 50(18), Part B, pages 33771-33780. **Web of Science**
13. Alkhamis, K., Alghasham, H. A., Almahri, A., Alessa, H., Osra, O. A., Al-Ghamdi, S. A., Adel M. Binyaseen & El-Metwaly, N. M. (2024). Iron borophosphate glasses: Merging optical transparency, structural integrity, and radiation shielding efficacy for sustainable uses. *Arabian Journal of Chemistry*, 17 (9), 105875. <https://doi.org/10.1016/j.arabjc.2024.105875>
14. Al-Ghamdi, H., Alsaif, N. A., Nabil, I. M., Abdelghany, A. M., Rammah, Y. S., & Abouhaswa, A. S. (2024). Strontium Oxide-Reinforced Borotellurite Glasses: Synthesis, Structure, and Optical Characteristics and γ-Ray and Neutron Attenuation Capability. *Journal of Electronic Materials*, 53: 5647 – 5662.
15. Alharshan, G. A., El-Seidy, A. M., Elamy, M. I., Nabil, I. M., El-Refaey, A. M., Elsad, R. A., M. S. Shams, A. M. Abdelghany & Rammah, Y. S. (2024). CeO₂ additive to bismo-borate glasses: synthesis, structure, physical characteristics, and radiation protection competence. *Journal of Materials Science: Materials in Electronics*, 35(12), 862.
16. Malidarreh, R. B., Akkurt, I., Almousa, N., & Zakaly, H. M. (2024). Exploring the impact of sulfur-antimony incorporation on the radiation shielding, structural, physical, and electrical properties of (S₃Sb₂)_x(S₂Ge)_{100-x} chalcogenide composites. *Optical and Quantum Electronics*, 56(5), 736.
- 17.

64. AM Abdel-Rahman, HM El-Desoky, BNA Shalaby, H Awad, A Ene, MA Heikal, H El-Awny, W Fahmy, SA Taalab, HM Zakaly, **Ultramafic rocks and their alteration products from Northwestern Allaqi Province, South Eastern Desert, Egypt: Petrology, mineralogy, and geochemistry**, Frontiers in Earth Science 10, 894582, 2022 (17)

Web of Science

1. Mosalem, A., Redwan, M., Abdel Moneim, A. A., & Rizk, S. (2024). Distribution, speciation, and assessment of heavy metals in sediments from Wadi Asal, Red Sea, Egypt. *Environmental Monitoring and Assessment*, 196(2), 215.
2. Abdelfadil, K. M., Asran, A. M., Rehman, H. U., Sami, M., Ahmed, A., Sanislav, I. V., Mohammed S. Fnais & Mogahed, M. M. (2024). The Evolution of Neoproterozoic Mantle Peridotites Beneath the Arabian–Nubian Shield: Evidence from Wadi Sodmein Serpentinites, Central Eastern Desert, Egypt. *Minerals*, 14(11), 1157. **Web of Science**
3. Dong, Y., Sun, S., He, D., Hui, B., Qi, N., Sun, J., Bo Zhou , Rutao Zang , Bin Zhang & Liu, X. (2024). Early Paleozoic back-arc basin in the East Kunlun Orogen, northern Tibetan Plateau: Insight from the Wutumeiren ophiolitic mélange. *Lithos*, 464, 107460.
4. Taalab, S. A., Ismail, A. M., El Maadawy, W. M., Abdelrahman, K., Khandaker, M. U., Sakr, A. K., & Hanfi, M. Y. (2024). Natural radioactivity, mineralogy and hazard assessment of syenogranites (ornamental stones) using a statistical approach. *Nuclear Engineering and Technology*, 56(10), pages 4141-4148. **Web of Science**
5. Khattab, M. R., Mohamed, W. H., Shetaia, S. A., Ahmed, M. S., Taalab, S. A., Saadawi, D. A., Ahmed K. Sakr, Mayeen Uddin Khandaker, A.Sh.M. Elshoukrof & Hanfi, M. Y. (2024). Radiological, environmental, and structural investigations of Wadi El Markh granitic rocks, southeastern desert, Egypt. *Nuclear Engineering and Technology*, 56(11), 4522-4530.
65. A Nat, A Ene, R Lupu, **Rapid determination of gold in Romanian auriferous alluvial sands, concentrates and rocks by 14 MeV NAA**, Journal of Radioanalytical and Nuclear Chemistry 261 (1), 179-188, 2004 (16)
1.Silachyov, I., Glagolev, V. A., & Kokkuzova, M. N. (2024). Gold content determination in small core-samples by instrumental neutron activation analysis. *International Journal of Biology and Chemistry*, 17(1), 78-88.
66. MM El Dabe, AM Ismail, M Metwaly, SA Taalab, MY Hanfi, A Ene, **Hazards of Radioactive Mineralization Associated with Pegmatites Used as Decorative and Building Material**, Materials 15 (3), 1224, 2022 (16)
 1. Taalab, S. A., Ismail, A. M., El Maadawy, W. M., Abdelrahman, K., Khandaker, M. U., Sakr, A. K., & Hanfi, M. Y. (2024). Natural radioactivity, mineralogy and hazard assessment of syenogranites (ornamental stones) using a statistical approach. *Nuclear Engineering and Technology*, Volume 56, Issue 10, Pages 4141-4148. <https://doi.org/10.1016/j.net.2024.05.017> **Web of Science**

2. El Tohamy, A. M. (2024). Hydrothermal alteration processes in monzogranite: a case study from the Eastern Desert of Egypt: implications from remote sensing, geochemistry and mineralogy. *Geochemical Transactions*, 25(1), 6. <https://doi.org/10.1186/s12932-024-00089-5>
67. W Elshami, HO Tekin, HMH Zakaly, B Issa, A Ene, **Impact of Eye and Breast Shielding on Organ Doses during the Cervical Spine Radiography: Design and validation of MIRD computational phantom**, *Frontiers in Public Health*, 1580, 2021 (17) [Web of Science](#)
1. Almousa, N., Issa, S. A., Zakaly, H. M., Abulyazied, D. E., Abouhaswa, A. S., & Tekin, H. O. (2024). Impact of incremental zinc-oxide incorporation on optical, magnetic, mechanical and photon transmission properties of K2O, SrF2, PbO containing borate-glasses. *Optical Materials*, 154, 115770. <https://doi.org/10.1016/j.optmat.2024.115770>
 2. Rajabpour, S., Almisned, G., Tekin, H. O., & Mesbahi, A. (2024). Innovative nano-shielding for minimizing stray radiation dose in external radiation therapy: A promising approach to enhance patient safety. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 556, 165513. [Web of Science](#)
 3. Abulyazied, D. E., Issa, S. A., Saudi, H. A., Abomostafa, H. M., & Zakaly, H. M. (2024). Dysprosium-Enriched Polymer Nanocomposites: Assessing Radiation Shielding and Optical Properties. *Optical Materials*, 153, 115604. <https://doi.org/10.1016/j.optmat.2024.115604>
 4. Jafari, S., Alikarmani, A., Faraj, K., Rezaie, S., & Ghazikhaniou Sani, K. (2024). Lifetime Attributable Risk of Breast Cancer Incidence in Brain CT Scans. *Middle East Journal of Cancer*, 15(3), 217-225.
68. G ALMisned, HO Tekin, A Ene, SAM Issa, G Kilic, HMH Zakaly, **A Closer Look on Nuclear Radiation Shielding Properties of Eu³⁺ Doped Heavy Metal Oxide Glasses: Impact of Al₂O₃/PbO Substitution**, *Materials* 14 (18), 5334, 2021 (14)
1. ALMisned, G., Baykal, D. S., Alkarrani, H., Kilic, G., Zakaly, H. M., Issa, S. A., & Tekin, H. O. (2024). Mechanical and, photon transmission properties of rare earth element (REE) doped BaO-B2O3-Li2O-Al2O3-P2O5 glasses for protection applications. *Journal of Radiation Research and Applied Sciences*, 17(3), 101041. <https://doi.org/10.1016/j.jrras.2024.101041>
 2. Chandran, G. U., Kumar, A. A., Menon, S. K., Sambhudevan, S., & Shankar, B. (2024). The potential role of flavonoids in cellulose-based biopolymeric food packaging materials for UV radiation protection. *Cellulose*, 31, pages: 4733 - 4773. <https://doi.org/10.1007/s10570-024-05838-4>
 3. Negm, H. H., Sdeek, A. A., & Ebrahim, A. A. (2024). The Role of Ytterbium (Yb2O3) in the Radiation Shielding Properties of Barium Titanium Borate Glasses (B2O3-TiO2-BaO) in Terms of γ and β Radiations. *Journal of Electronic Materials*, 53, pages: 3965 - 3979. <https://doi.org/10.1007/s11664-024-11073-1> [Web of Science](#)
72. A ENE, ANA PANTELICĂ, F SLOATĂ, HMH ZAKALY, HO TEKIN, **GAMMA SPECTROMETRY ANALYSIS OF NATURAL AND MAN-MADE RADIOACTIVITY AND ASSESSMENT OF RADIOLOGICAL RISK IN SOILS AROUND STEEL INDUSTRY**, *Romanian Journal of Physics* 68 (7-8), 803, 2023 (13) [Web of Science](#)
- [Web of Science](#)
1. Zakaly, H. M., Elsaman, R., Kamal, M., Issa, S. A., Abbasi, A., Shen, J., Atef El-Taher, Chee Kong Yap, Elsayed Abdelbaky & Seleem, E. M. M. (2024). Natural radiological risk assessment around archaeological sites, El-Dakhla Oasis (EDO), Egypt. *Journal of Radioanalytical and Nuclear Chemistry*, 333, 5335 – 5346. <https://doi.org/10.1007/s10967-024-09618-z>
 2. Zlatanovska, I., Stafilov, T., Šajn, R., Gonovska, B. D., Dimovska, S., Janusheski, J., Shaban Memeti & Barandovski, L. (2024). Assessment of radiological hazards of soils from the city of Bitola (Macedonia) and its environs. *Isotopes in Environmental and Health Studies*, 60(4), 453-470. <https://doi.org/10.1080/10256016.2024.2377358>
 3. Zlatanovska, I., Stafilov, T., Šajn, R., Gonovska, B. D., Dimovska, S., Janusheski, J., & Barandovski, L. (2024). Distribution of some natural and artificial radionuclides in soil from the city of Bitola (Macedonia) and its environs. *Radiation Protection Dosimetry*, 200(10), Pages 901–918. <https://doi.org/10.1093/rpd/ncae139>
 4. Muthusamy, A., Deva Jayanthi, D. S., & Maniyar, C. G. (2024). Assessment of natural radioactivity in soil samples along the coastal villages of Tirunelveli District, Tamilnadu, India using gamma-ray spectroscopy. *International Journal of Environmental Analytical Chemistry*, 1-12. <https://doi.org/10.1080/03067319.2024.2353902>
73. HMH Zakaly, A Ene, Ol Olarinoye, SY Marzouk, SH Abdel-Hafez, Mohamed S Shams, Yasser S Rammah **Investigation of Er³⁺ Ions Reinforced Zinc-Phosphate Glasses for Ionizing Radiation Shielding Applications**, *Materials* 14 (22), 6769, 2021 <https://doi.org/10.3390/ma14226769> (13)
1. Sasirekha, C., Poojha, M. K., Marimuthu, K., Alqahtani, M. S., & Vijayakumar, M. (2024). Investigations on physical, structural, elastic, optical and radiation shielding properties of boro-phosphate glasses for radioactive waste management applications. *Progress in Nuclear Energy*, 175, 105327. <https://doi.org/10.1016/j.pnucene.2024.105327>
 2. Alsaif, N. A., Alfryyan, N., Al-Ghamdi, H., El-Refaey, A. M., Elsad, R. A., Shams, M. S., Y. S. Rammah, M. S. Sadeq, Shaaban M. Shaaba & Nabil, I. M. (2024). The impact of TiO₂ on physical, optical characteristics and shielding qualities against γ -ray features of titanium bismo-borate glasses. *Optical and Quantum Electronics*, 56(5), 816. <https://doi.org/10.1007/s11082-024-06702-2>
 3. Sivakumar, T., Panjanathan, V., & Dhinakaran, P. (2024). Predominance of Yb³⁺ and Ce³⁺ on the AlTaBaBO: Yb and BaTi₃BPO: ce glasses for effective photoluminescence and radiation shielding properties towards w-LED and γ -ray shielding applications. *Radiation Physics and Chemistry*, 224, 111995. <https://doi.org/10.1016/j.radphyschem.2024.111995> [Web of Science](#)
 4. Al-Ghamdi, H., Alsaif, N. A., Alfryyan, N., Shaaban, S. M., Rammah, Y. S., Shams, M. S., Adel M. El-Refaey & Elsad, R. A. (2024). Electrical and γ -Ray Attenuation Properties of Barium-Borate Sodium Glasses at Various Manganese Ion Concentrations. *Journal of Electronic Materials*, 53, 5728- 5737. <https://doi.org/10.1007/s11664-024-11299-z> [Web of Science](#)
 5. Alsaif, N. A., El-Refaey, A. M., Elsad, R. A., Shams, M. S., Almutairi, W. M., & Rammah, Y. S. (2024). Effect of titanium ion doping on γ -ray shielding, structure and dielectric characteristics of glasses made of barium zinc borate. *Optical and Quantum Electronics*, 56(7), 1098. <https://doi.org/10.1007/s11082-024-06809-6>
74. L Teodorof, A Ene, A Burada, C Despina, D Seceleanu-Odor, C Trifanov, Orhan Ibram, Edward Bratfanof, Mihaela-Iuliana Tudor, Marian Tudor, Irina Cernisencu, Lucian Puiu Georgescu, Catalina Iticescu, **Integrated Assessment of Surface Water Quality in Danube River Chilia Branch**, *Applied Sciences* 11 (19), 9172, 2021 (13)
- [Web of Science](#)
1. Topa, C., Murariu, G., Calmuc, V., Calmuc, M., Arseni, M., Serban, C., Cecilia Serban, Carmen Chitescu & Georgescu, L. (2024). A Spatial–Seasonal Study on the Danube River in the Adjacent Danube Delta Area: Case Study—Monitored Heavy Metals. *Water*, 16(17), 2490. <https://doi.org/10.1016/j.iclepro.2024.144593>
 2. Lwinga, N. A., Izdori, F. J., & Richard, E. N. (2024). Evaluating the potability of domestic water supply sources using water quality index in Kilombero district, Tanzania. *Water Quality Research Journal*, 59(4), 327-341. <https://doi.org/10.2166/wqr.2024.050>
 3. Kayadelen, H. A., & Demir, N. Evaluation of Water Quality in a Highly Impacted Urban Stream Using Water Quality Index (Ankara Stream, Türkiye). *Çanakkale Onsekiz Mart University Journal of Marine Sciences and Fisheries*, 7(2), 117-126. <https://doi.org/10.46384/jmsf.1501131>

75. A Ene, IV Popescu, T Badica, **Determination of carbon in steels using particle-induced gamma ray spectrometry**, Journal of optoelectronics and advanced materials 8, 222-224, 2006 (13)
- Jokar, A., & Aslani, H. T. (2024). Study of 3089 keV gamma-ray emission from the reaction of ^{12}C (d, $\text{p}y1-0$) ^{13}C for analytical applications. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 557, 165549. <https://doi.org/10.1016/j.nimb.2024.165549>
76. MAM Uosif, SAM Issa, A Ene, V Ivanov, AMA Mostafa, A Atta, EF El Agammy, Hesham MH Zakaly., **Optimal Composition for Radiation Shielding in BTCu-x Glass Systems as Determined by FLUKA Simulation**, Journal of Materials Research and Technology, 2023 (12)
- Web of Science**
- Fidan, M., Acikgoz, A., Yilmaz, D., Demircan, G., Kalecik, S., Aktas, B., & Isgor, S. (2024). Investigation of the structural, mechanical, radiation and neutron shielding properties of the $\text{TeO}_2\text{-B}_2\text{O}_3\text{-Li}_2\text{O}\text{-MoO}_3\text{-CuO}$ glass system. *Journal of Alloys and Compounds*, 976, 172981. <https://doi.org/10.1016/j.jallcom.2023.172981>
 - Alharshan, G. A., Elamy, M. I., Said, S. A., Mahmoud, A. M. A., Elsad, R. A., Nabil, I. M., & Ebrahem, N. M. (2024). Effect of lanthanum oxide on the radiation-shielding, dielectric, and physical properties of lithium zinc phosphate glasses. *Radiation Physics and Chemistry*, 224, 112053. <https://doi.org/10.1016/j.radphyschem.2024.112053>
 - Irfan, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Principles-based investigation of lithium-based halide perovskite $X\text{LiAlH}_6$ ($X = \text{K}, \text{Mn}$) for hydrogen storage, optoelectronic, and radiation shielding applications. *International Journal of Hydrogen Energy*, 91, 775-786. <https://doi.org/10.1016/j.ijhydene.2024.10.081>
 - El-Khatib, A. M., Zard, K., Abbas, M. I., & Gouda, M. M. (2024). Novel composite based on silicone rubber and a nano mixture of SnO_2 , Bi_2O_3 , and CdO for gamma radiation protection. *Scientific Reports*, 14(1), 1578.
 - Abulyazied, D. E., Issa, S. A., Saudi, H. A., Abomostafa, H. M., & Zakaly, H. M. (2024). Dysprosium-Enriched Polymer Nanocomposites: Assessing Radiation Shielding and Optical Properties. *Optical Materials*, 153, 115604.
 - Isazadeh, F., & Abdi Saray, A. (2024). A comparative Monte Carlo simulation study on shielding features of the $\text{CaF}_2\text{-CaO-B}_2\text{O}_3\text{-P}_2\text{O}_5\text{-SrO-Ta}_2\text{O}_5$ glass system against X-ray by GEANT4 and MCNPX codes. *Scientific Reports*, 14(1), 13588.
 - Ali, E. S., Abulyazied, D. E., Saudi, H. A., Abomostafa, H. M., Turky, G. M., Issa, S. A., Fatma M. Obiedallah & Zakaly, H. M. (2024). Synthesis and characterization of FMWCNTs/ZnO doped PVDF nanocomposites for enhanced mechanical, dielectric, and radiation shielding properties. *Diamond and Related Materials*, volume 145, 111148. <https://doi.org/10.1016/j.diamond.2024.111148>
 - Al-Ghamdi, H., Alsaif, N. A., Khattari, Z. Y., Shaaban, S. M., El-Refaey, A. M., Elsad, R. A., M. S. Shams, Y. S. Rammah, A. M. Abdellghany & Sadeq, M. S. (2024). Linear/nonlinear opto-gamma radiation attenuation hallmarks of high-density lead barium-borate glass blocks containing iron oxide additives. *Journal of Materials Science: Materials in Electronics*, 35(1), 70. <https://doi.org/10.1007/s10854-023-11751-6>
77. HMH Zakaly, HO Tekin, AMS Issa, AW Alrowaily, A Ene, YS Rammah, **Dual Impacts of $\text{Bi}_2\text{O}_3/\text{B}_2\text{O}_3$ Substitution on Mechanical and Attenuation Properties of Zinc–Bismuth–Borate Ternary Glasses for Diagnosis y-Rays Shielding Materials Application**, Journal of Inorganic and Organometallic Polymers and Materials, 1-12, 2023 (12)
- Web of Science**
- Akbar, M. I., Armynah, B., & Tahir, D. (2024). Comprehensive compilation and analysis of wood composite materials for X-ray, Gamma-ray, and neutron radiation shielding applications: A review. *Industrial Crops and Products*, 222, 119440. [Web of Science](#)
 - Aloraini, D. A., Ashour, A., & Shaaban, K. S. (2024). Effect of various Na_2O - MoO_3 concentrations on the thermal, mechanical, and radiation-resisting attributes of zinc-borosilicate glasses. *Silicon*, 16(4), 1837-1846.
 - Shaaban, K. S., Aloraini, D. A., Alsafi, K., Almutairi, H. M., Al-Saleh, W. M., & Alzahrani, A. S. (2024). Role of CeO_2 in the enhancement of the properties of the $\text{SiO}_2\text{-B}_2\text{O}_3\text{-BaO-Li}_2\text{O}$ -glass system: Structural, mechanical and radiation shielding study. *Materials Today Communications*, 38, 108309. [Web of Science](#)
 - Almousa, N., Malidarreh, R. B., Issa, S. A. M., & Zakaly, H. M. (2024). Synergistic effects of Gd_2O_3 and SiO_2 in enhancing the acoustic, mechanical, and shielding qualities of borate glasses. *Radiation Physics and Chemistry*, 224, 112060.
 - Zakaly, H. M., Issa, S. A., Ali, A. S., Almousa, N., Elsaman, R., Kubuki, S., & Atta, M. M. (2024). Exploring the potential of bismuth-containing silicate borate glasses for optoelectronic devices and radiation protection. *Optical Materials*, 156, 115956.
 - Aloraini, D. A., Almuqrin, A. H., & Saeed, A. (2024). Impact of Bi^{3+} , Ba^{2+} , and Pb^{2+} ions on the structural, thermal, mechanical, optical, and gamma ray shielding performance of borosilicate glass. *Optical and Quantum Electronics*, 56(1), 126.
 - Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi_2O_3 modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683
 - Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Koubisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*, 5 (22), pp.8864-8877 <https://doi.org/10.1039/d3ma01062g>
 - Mostafa, A. M. A., Uosif, M. A. M., Issa, S. A., Zhukovsky, M., Alrowaili, Z. A., & Zakaly, H. M. (2024). Evaluation of photon, proton, and alpha interaction parameters of EDTMPLu and MDPLu medications used for some bone cancer. *Radiation Physics and Chemistry*, 216, 111419.
 - Irfan, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Principles-based investigation of lithium-based halide perovskite $X\text{LiAlH}_6$ ($X = \text{K}, \text{Mn}$) for hydrogen storage, optoelectronic, and radiation shielding applications. *International Journal of Hydrogen Energy*, 91, 775-786. <https://doi.org/10.1016/j.ijhydene.2024.10.081>
 - Kumar, N. H., Edukondalu, A., & Ravinder, D. (2024). Structural, dielectric, and magnetic properties of Cu-doped Ni-Zn ferrites. *Journal of the Australian Ceramic Society*, 60(1), 275-289.
 - Dharshini, R., Kavitha, S., Dhivya, V., Karpagam, R., Sakthipandi, K., Karthikeyan, B. S., C. Manjula , R. Sivakumar, V. Rajendran, A. Kumaresan & Rajkumar, G. (2024). Evaluation of physico-chemical, antioxidant and antibacterial properties of ZnO added fluorophosphate glasses. *Ceramics International*, 50(22), part A, pages 45105-45113. [Web of Science](#)
78. HMH Zakaly, HO Tekin, YS Rammah, SAM Issa, AH Alomari, FT Ali, Duygu Sen Baykal, Wiam Elshami, DE Abulyazied, Ghada ALMisned, AMA Mostafa, Antoaneta Ene, **Physical Features of High-Density Barium–Tungstate–Phosphate (BTP) Glasses: Elastic Moduli, and Gamma Transmission Factors**, Electronics 11 (24), 4095, 2022 (12)
- Web of Science**
- Sasirekha, C., Poojha, M. K., Marimuthu, K., Alqahtani, M. S., & Vijayakumar, M. (2024). Investigations on physical, structural, elastic, optical and radiation shielding properties of boro-phosphate glasses for radioactive waste management applications. *Progress in Nuclear Energy*, 175, 105327. <https://doi.org/10.1016/j.pnucene.2024.105327>
 - Irfan, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Principles-based investigation of lithium-based halide perovskite $X\text{LiAlH}_6$ ($X = \text{K}, \text{Mn}$) for hydrogen storage, optoelectronic, and radiation shielding applications. *International Journal of Hydrogen Energy*, 91, 775-786.
 - Es-soufi, H., Ouachou, L., Sayyed, M. I., & Bih, L. (2024). Evaluating Mechanical, Durability, and Gamma Shielding Performance in Boro-Phosphate Glasses with Tungsten Oxide Replacements. *Optical Materials*, 15, part 3, 116424.

4. Alomari, A. H. (2024). Elucidating the multiple contributions of increasing MoO₃ concentration on phosphate glasses for radiation safety applications. *Radiation Physics and Chemistry*, 218, 111593.
5. Boontueng, P., Pencharee, S., Mutuwong, C., Kaewkhaos, J., Thongjerm, P., Wonglee, S., S. Kothan, N. Intachai & Kobdaj, C. (2024). Optimizing the Composition of Barium-Borate Glasses for Enhancing Thermal Neutron Shielding Efficiency: Monte Carlo Simulation. *Radiation Physics and Chemistry*, 223, 111937. [Web of Science](#)
6. Mwakuna, A. E., Manepalli, R. K. N. R., & Laxminarayana, C. (2024). Structural, Elastic and Gamma-ray Attenuation Properties of Potassium Borate Glasses Doped with BaO, Bi₂O₃, or Pb₃O₄: A Comparative Assessment. *Optical Materials*, 157, part 2, 116294. <https://doi.org/10.1016/j.optmat.2024.116294>
7. Alan, H. Y., ALMisned, G., Yilmaz, A., Susam, L. A., Ilik, E. R. K. A. N., Kilic, G., G. Ozturk, B. Tuysuz, B. Akkus & Tekin, H. O. (2024). An investigation on protection properties of Tantalum (V) oxide reinforced glass screens on unexposed breast tissue for mammography examinations. *Radiography*, 30(1), 282-287.
8. Sahin, M. C. (2024). The impact of Li₂O concentration on mechanical and radiation attenuation properties of lithium zinc borotellurite glasses: an in silico study. *Indian Journal of Physics*, 1-10. <https://doi.org/10.1007/s12648-024-03483-y>

79. RU Erdemir, G Kilic, DS Baykal, G ALMisned, SAM Issa, HMH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, **Diagnostic and therapeutic radioisotopes in nuclear medicine: Determination of gamma-ray transmission factors and safety competencies of high-dense and transparent glassy shields**, Open Chemistry 20 (1), 517-524, 2022 (12)

Web of Science

1. Nayak, N., Bhujle, R. R., Nanje-Gowda, N. A., Chakraborty, S., Silivri, K., Subbiah, J., & Brennan, C. (2024). Advances in the Novel and Green-Assisted Techniques for Extraction of Bioactive Compounds from Millets: A Comprehensive Review. *Heliyon*, 10(10), e30921
2. Al-Ghamdi, H., Alfryyan, N., Alsaif, N. A., Rammah, Y. S., Abo-Mosallam, H. A., & Mahdy, E. A. (2024). Efficiency of K₂WO₄ containing a newly synthesized phosphate based glasses: Physical, thermal properties, FTIR spectroscopy and γ-ray shielding parameters. *Radiation Physics and Chemistry*, 224, 112068.
3. Irfan, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Principles-based investigation of lithium-based halide perovskite X₂LiAlH₆ (X= K, Mn) for hydrogen storage, optoelectronic, and radiation shielding applications. *International Journal of Hydrogen Energy*, 91, 775-786.
4. ALMisned, G., Susoy, G., Baykal, D. S., Alomari, A. H., & Tekin, H. O. (2024). Evaluating the Efficacy of Multiple Concrete Compositions in Gamma Ray and Fast Neutron Shielding: Insights from MCNP 6.3 Monte Carlo Code. *Journal of Building Engineering*, 98, 111205.

BDI (baze de date internationale, altele decat WoS)

1. BAYKAL, D. S. (2024). A novel approach for Technetium-99m radioisotope transportation and storage in lead-free glass containers: A comprehensive assessment through Monte Carlo simulation technique. *International Journal of Computational and Experimental Science and Engineering*, 10(2).

80. G ALMisned, G Kilic, E Ilik, SAM Issa, HMH Zakaly, A Badawi, UG Issever, HO Tekin, Antoaneta Ene, **Structural characterization and Gamma-ray attenuation properties of rice-like α-TeO₂ crystalline microstructures (CMS) grown rapidly on free surface of tellurite-based glasses**, Journal of Materials Research and Technology 16, 1179-1189 (2022) (12)

Web of Science

1. Sayyed, M. I., Almuqrin, A. H., & Mahmoud, K. A. (2024). Detailed investigations for mechanical and gamma-ray attenuation characteristics of B₂O₃-ZnO-BaO-TiO₂ glasses doped with PbO. *Journal of Materials Research and Technology*, 30, 3011-3020.
2. Al-Ghamdi, H., Alsaif, N. A., Afaneh, F., El-Refaey, A. M., Elsad, R. A., Shams, M. S., Y. S. Rammah, Shaaban M. Shaaban & Khattari, Z. Y. (2024). Effect of iron ion doping on mechanical, dielectric properties, and radiation protection effectiveness of lead barium borate glasses. *Applied Physics A*, 130(1), 6.

81. RL El Saeed, HA Awad, A Ene, SS Alarifi, MA Rashwan, NA Kawady, Shams AM Issa, Hesham MH Zakaly, **Mineralogical constituents and radioactivity analysis of commercial granitic ornamental stones: Assessing suitability and radiation safety**, Journal of Radiation Research and Applied Sciences 16 (3), 100618, 2023 (12)

Web of Science

1. Khaleal, F. M., Lentz, D. R., Kamh, S. Z., Saleh, G. M., Abdalla, F., & El Saeed, R. L. (2024). Remote sensing analysis and geodynamic setting of magmatic spessartine-almandine-bearing leucogranites, Um Addebaa area, southeastern Desert, Egypt: Bulk rock and mineral chemistry. *Physics and Chemistry of the Earth, Parts A/B/C*, 136, 103749. [Web of Science](#)
2. El Saeed, R. L., Elyaseer, M. H., Mohamed, W. H., Azer, M. K., Rashwan, M. A., & Thabet, I. A. (2024). Economic feasibility of Gabal Um Takha leucogranitic intrusion, South Sinai, Egypt: Integrated remote sensing, geochemical, aeromagnetic, and geotechnical approach. *Physics and Chemistry of the Earth, Parts A/B/C*, 133, 103531.
3. Hamed, M., Khaled, M. A., Said, R. E., Ghoneim, S. M., Saad, E., Abd El-Aal, M., & Sayed, A. E. D. H. (2024). Patterns distribution, concentrations and sources of radioactive elements from black sand in the Red Sea coast, Egypt. *Journal of Hazardous Materials*, 480, 136051. [Web of Science](#)
4. Sidique, E., Elhaddad, M. A., Sami, M., Sanislav, I. V., Alshehri, F., Ahmed, M. S., & Abbas, H. (2024). Geochemical characteristics, hazards impact assessment and radiogenic heat production of the alkaline rocks. *Scientific Reports*, 14(1), 9121.
5. Yadav, J., Beniwal, R., Singh, P. P., Singh, P., & Dalal, R. (2024). Assessment of natural radioactivity in the Higher and Tethys Himalayan Rocks along Manali-Leh Highway, India. *Environmental Monitoring and Assessment*, 196(11), 1133.
6. Saleh, G. M., Khaleal, F. M., El-Bialy, M. Z., Kamar, M. S., Azer, M. K., Omar, M. M., Mohamed N. El Dawy, Ahmed Abdelaal & Lasheen, E. S. R. (2024). Origin and geochemical characteristics of beryllium mineralization in the Zabara-Wadi El Gemal region, South Eastern Desert, Egypt. *Acta Geochimica*, 43, 1105 - 1122. <https://doi.org/10.1007/s11631-024-00698-y>
7. Heikal, M. T. S., Shereif, A. S., & Azer, M. K. (2024). Gamma activity concentrations (226Ra, 232Th, 40K) of mineralized Homret Akarem composite granitic pluton, Egyptian Nubian Shield: environmental hazards assessment. *Euro-Mediterranean Journal for Environmental Integration*, 9, 1629 - 1658.

BDI (baze de date internationale, altele decat WoS)

1. Gelany, A., Ibrahim, A., Mohamed, O., Mabrouk, S., & Alaraby, R. (2024). Preserving Sunken Granite with Olive Oil for Sustainable Underwater Museums. <https://digitalcommons.aaru.edu.jo/erjeng/vol8/iss6/>

82. HMH Zakaly, HO Tekin, G ALMisned, EM Ahmed, SAM Issa, A Ene, **Mechanical properties as well as gamma-ray attenuation competence: a wide-ranging examination into Tb₃+ doped boro-germanate-aluminophosphate (BGAP) glasses**, Journal of Materials Research and Technology 18, 5062-5074, 2022 (11)

Web of Science

1. Sasirekha, C., Poojha, M. K., Marimuthu, K., Alqahtani, M. S., & Vijayakumar, M. (2024). Investigations on physical, structural, elastic, optical and radiation shielding properties of boro-phosphate glasses for radioactive waste management applications. *Progress in Nuclear Energy*, 175, 105327.
2. Almousa, N., Nabil, I. M., Issa, S. A., & Zakaly, H. M. (2024). Enhancing Radiation Shielding with Gadolinium (III) Oxide in Cerium (III) Fluoride-Doped Silica Borate Glass. *Science and Technology of Nuclear Installations*, 2024(1), 8910531.
3. Abd-Allah, W. M., Marzouk, S., Gaafar, M. S., & Salama, E. (2024). A Closer Look at the Fabrication of Some Doped Metal ions in Borophosphate Glass system and their Structural, Elastic, Optical, and Gamma-Ray Shielding Characteristics. *Ceramics International*, 50(22), Part B, pages 46429-46439.
4. Al-Buriahi, M. S., Alomaryah, N., Alomairy, S., Alrowaili, Z. A., Olarinoye, I. O., & Alalawi, A. (2024). Significantly improved optical and radiation transmission performance of borate glasses with a wide energy range via Tb and Yb rare earth doping. *Ceramics International*, 50(24), Part C, pages 55518-55527. [Web of Science](#)
5. Almousa, N., Hassan, A. M., Issa, S. A., Obiedallah, F. M., & Zakaly, H. M. (2024). Optimizing structural, morphological, optical, and photon attenuation properties of AZO nanocrystals for radiation shielding. *Optical Materials*, 153, 115600.

83. Hesham MH Zakaly Huseyin Ozan Tekin, Ghada Almisned, Shams AM Issa, Emel Serdaroglu Kasikci, Mahreen Arooj, **Antoaneta Ene**, MS Al-Buriahi, Muhsin Konuk, **Molecular polar surface area, total solvent accessible surface area (SASA), heat of formation and gamma ray attenuation properties of some flavonoids**, *Frontiers in Physics*, 2022, 16, 101838725 (12)

Web of Science

1. Hu, M., Lu, X., Qin, S., Liu, R., Wang, Q., Lu, C., & Li, W. (2024). Research progress on the biosynthesis, activity and application of natural tetrapyrrole compounds. *Arabian Journal of Chemistry*, 17(5), 105736.
2. Razavi, L., Raissi, H., Hashemzehi, O., & Farzad, F. (2024). Significantly enhanced performance for phenol compounds removal by MOF-5 nano-composite via its surface modification. *npj Clean Water*, 7(1), 44.
3. Alhuthali, A. M., Kalil, H., & Ibrahim, M. A. (2024). Evaluating the reactivity of polyvinyl alcohol/graphene nanocomposites. *Optical Materials*, 151, 115364.
4. Yan, Y., Chen, Y., Hu, H., Jiang, Y., Kang, Z., & Wu, J. (2024). Discovery of a New Class of Lipophilic Pyrimidine-Biphenyl Herbicides Using an Integrated Experimental-Computational Approach. *Molecules*, 29(11), 2409. <https://doi.org/10.3390/molecules29112409>
5. Refaata, A., & Ibrahim, M. (2024). Microspectroscopic, DFT and QSAR Study of PVP/CaCO₃ Blends as Potential Bone-Remineralization Membranes. *Egyptian Journal of Chemistry*, 67(2), 29-41. DOI: [10.21608/ejchem.2023.214822.8072](https://doi.org/10.21608/ejchem.2023.214822.8072)

85. EH El-Ghazzawy, HMH Zakaly, AW Alrowaily, SA Saafan, A Ene, **Delving into the properties of nanostructured Mg ferrite and PEG composites: A comparative study on structure, electrical conductivity, and dielectric relaxation**, *Heliyon* 9 (9), e19745, 2023 (10)

Web of Science

1. Hussein, M. M., Saafan, S. A., Abosheisha, H. F., Zhou, D., Tishkevich, D. I., Abmiotka, N. V., Ekaterina L. Trukhanova , Alex V. Trukhanov , Sergei V. Trukhanov & Darwishi, M. A. (2024). Preparation, structural, magnetic, and AC electrical properties of synthesized CoFe₂O₄ nanoparticles and its PVDF composites. *Materials Chemistry and Physics*, 317, 129041. <https://doi.org/10.1016/j.matchemphys.2024.129041>
2. Elbashir, A. M., Seada, M. M., Meaz, T. M., & El-Ghazzawy, E. H. (2024). The role of thermal treatment and formulation on modifying the structural nature and optimizing certain physical features of coprecipitated superparamagnetic Co–Mn–Cr spinel ferrite. *Heliyon*, 10(13).
3. Darwishi, M. A., Salem, M. M., Trukhanov, A. V., Abd-Elaziz, W., Hamada, A., Zhou, D., Anwer S. Abd El-Hameed, M. Khalid Hossain & El-Ghazzawy, E. H. (2024). Enhancing electromagnetic interference mitigation: A comprehensive study on the synthesis and shielding capabilities of polypyrrole/cobalt ferrite nanocomposites. *Sustainable Materials and Technologies*, 42, e01150. <https://doi.org/10.1016/j.susmat.2024.e01150>
4. Ibrahim, A., Tani, K., Hashi, K., Zhang, B., Homonnay, Z., Kuzmann, E., Arjeta Bafti, Luka Pavić, Stjepko Krehula, Marijan Marciuš & Kubuki, S. (2024). Debye Temperature Evaluation for Secondary Battery Cathode of α-Sn x Fe1-x OOH Nanoparticles Derived from the 57Fe-and 119Sn-Mössbauer Spectra. *International Journal of Molecular Sciences*, 25(5), 2488. <https://doi.org/10.3390/ijms25052488>
5. Ibrahim, B., Saafan, S. A., Shater, R. E., & Omar, M. K. (2024). Room temperature AC properties and impedance analysis of Mg ferrite/polypyrrole (PPy) and Mg ferrite/reduced graphene oxide (rGO) composites. *Indian Journal of Physics*, 1-11. <https://doi.org/10.1007/s12648-024-03372-4>
6. Ibrahim, A., Akiyama, K., Khan, I., Zhang, B., Ali, A.S., Sinkó, K., Janos Rohonczy, Zoltán Homonnay, Ernő Kuzmann, Marta Razum, Luka Pavić, Stjepko Krehula, Marijan Marciuš & Kubuki, S. (2024). Novel sol-gel route for expanding the glass forming region of tin phosphate glass for secondary battery electrode applications. *Journal of Alloys and Compounds*, 997, 174930.
7. Almousa, N., Issa, S. A., Salem, M. M., Darwishi, M. A., Serag, E. N., Nazrin, S. N., & Zakaly, H. M. (2024). Tailoring perovskite ceramics for improved structure, vibrational behaviors and radiation protection: The role of lanthanum in PbTiO₃. *Optical Materials*, 152, 115543.

86. D Fathy, HMH Zakaly, ESR Lasheen, R Elsaman, SS Alarifi, M Sami, Hamdy A Awad, **Antoaneta Ene**, **Assessing geochemical and natural radioactivity impacts of Hamadat phosphatic mine through radiological indices**, *Plos one* 18 (10), e0287422, 2023 (9)

Web of Science

1. Nabil, I. M., El-Samrah, M. G., Sayed, A. E., Shazly, A., & Omar, A. (2024). Radionuclides distribution and radiation hazards assessment of black sand separation plant's minerals: a case study. *Scientific Reports*, 14(1), 524. [Web of Science](#)
2. Fathy, D., Farouk, S., Qteishat, A., Ahmad, F., Sami, M., El-Kahtany, K., & Lee, E. Y. (2024). Geochemical characterization of Upper Cretaceous organic-rich deposits: Insights from the Azraq Basin in Jordan. *Journal of Asian Earth Sciences*, 276, 106365. [Web of Science](#)
3. Hamed, Y., Ayadi, Y., Hadji, R., Ben Saad, A., Gentilucci, M., & Elaloui, E. Environmental Radioactivity, Ecotoxicology (²³⁸U, ²³²Th and ⁴⁰K) and Potentially Toxic Elements in Water and Sediments from North Africa Dams, *Sustainability* 2024, 16(2), 490; <https://doi.org/10.3390/su16020490>
4. Zakaly, H. M., Elsaman, R., Kamal, M., Issa, S. A., Abbasi, A., Shen, J., Akbar Abbasi, Jinsong Shen, Atef El-Taher, Chee Kong Yap, Elsayed Abdelbaky & Seleem, E. M. M. (2024). Natural radiological risk assessment around archaeological sites, El-Dakhla Oasis (EDO), Egypt. *Journal of Radioanalytical and Nuclear Chemistry*, 333, 5335 - 5346.
5. Sidique, E., Elhaddad, M. A., Sami, M., Sanislav, I. V., Alshehri, F., Ahmed, M. S., & Abbas, H. (2024). Geochemical characteristics, hazards impact assessment and radiogenic heat production of the alkaline rocks. *Scientific Reports*, 14(1), 9121.
6. Diab, I., Laouar, R., Bosch, D., Tili, A., Degauchia, A., Bruguier, O., Mourad Zaabat, Salah Bouhlel & Kechiched, R. (2024). The Ain Dibba and Ain Kissa phosphorites, Tebessa (NE Algeria): REE depletion versus shallow, open depositional environment during the Paleocene-Eocene phosphogenesis in North Africa. *Journal of African Earth Sciences*, 220, 105433. [Web of Science](#)

7. Ayyat, A. M. E., El-Helaly, S., Ahmed, E. A., Moneim, M. A., & Abukhadra, M. R. (2024). Glauconite facies developed sequentially in the Abu Tartur Plateau (Egypt) during the Late Cretaceous. *Euro-Mediterranean Journal for Environmental Integration*, 9(1), 255-276.
8. Hamed, Y., Ayadi, Y., Hadji, R., Ben Saad, A., Gentilucci, M., & Elaloui, E. (2024). Environmental Radioactivity, Ecotoxicology (238U, 232Th and 40K) and Potentially Toxic Elements in Water and Sediments from North Africa Dams. *Sustainability*, 16(2), 490.
9. Peri, P. L., Gaitán, J., Díaz, B., Almonacid, L., Morales, C., Ferrer, F., Romina Lasagno, Julián Rodríguez-Souilla & Martínez Pastur, G. (2024). Vegetation Type Mapping in Southern Patagonia and Its Relationship with Ecosystem Services, Soil Carbon Stock, and Biodiversity. *Sustainability*, 16(5), 2025. [Web of Science](#)

87. MAM Uosif, SAM Issa, A Ene, AMA Mostafa, A Atta, A Badawi, EF El Agammy, Hesham MH Zakaly, [A promising alternative: examining TVS tellurite glass for gamma radiation shielding applications](#), *Frontiers in Materials* 10, 1210524, 2023 (10) [Web of Science](#)
 1. Alharshan, G. A., Elamy, M. I., Said, S. A., Mahmoud, A. M. A., Elsad, R. A., Nabil, I. M., & Ebrahem, N. M. (2024). Effect of lanthanum oxide on the radiation-shielding, dielectric, and physical properties of lithium zinc phosphate glasses. *Radiation Physics and Chemistry*, 224, 112053.
 2. El-Khatib, A. M., Zard, K., Abbas, M. I., & Gouda, M. M. (2024). Novel composite based on silicone rubber and a nano mixture of SnO₂, Bi₂O₃, and CdO for gamma radiation protection. *Scientific Reports*, 14(1), 1578.
 3. Darwish, M. A., Salem, M. M., Zakaly, H. M., Abd-Elaziem, W., Abou Halaka, M. M., Eid, M. S., Eman N. Serag, M. Khalid Hossain, Osama M. Hemeda, H. M. Badran & Elmekawy, A. (2024). Perovskite ceramics: the impact of lanthanum doping on the structural, radiation shielding and vibrational characteristics of lead titanate. *Applied Physics A*, 130(5), 348. [Web of Science](#)
 4. Es-soufi, H., Ouachou, L., Sayyed, M. I., & Bih, L. (2024). Evaluating Mechanical, Durability, and Gamma Shielding Performance in Boro-Phosphate Glasses with Tungsten Oxide Replacements. *Optical Materials*, 157. Part 3, 116424.
 5. Sayyed MI, Almuqrin AH, Mahmoud KA. Detailed investigations for mechanical and gamma-ray attenuation characteristics of B2O3-ZnO-BaO-TiO2 glasses doped with PbO. *Journal of Materials Research and Technology*. 2024, 30, pages 3011-3020, <https://doi.org/10.1016/j.jmrt.2024.04.035>
 6. Althobaiti, M. G., Alosaimi, M. A., Alharthi, S. S., Alotaibi, A. A., & Badawi, A. (2024). Tailoring the optical performance of sprayed NiO nanostructured films through cobalt doping for optoelectronic device applications. *Optical Materials*, 151, 115341.
 7. Alharshan, G. A., Shaaban, S. M., Ebrahem, N. M., Said, S. A., Mesalam, Y. I., Mahmoud, A. M. A., R. A. Elsad, Fatma Ibraheem & Mimouni, A. (2024). The antimony-doped phosphate glasses system's optical, radiation-shielding, and physical properties. *Optical and Quantum Electronics*, 57(1), 31.
 8. Al-Ghamdi, H., Alsaf, N. A., Khattari, Z. Y., Shaaban, S. M., El-Refaey, A. M., Elsad, R. A., M. S. Shams, Y. S. Rammah, A. M. Abdelghany & Sadeq, M. S. (2024). Linear/nonlinear opto-gamma radiation attenuation hallmarks of high-density lead barium-borate glass blocks containing iron oxide additives. *Journal of Materials Science: Materials in Electronics*, 35(1), 70.

88. G ALMisned, HMH Zakaly, FT Ali, SAM Issa, A Ene, G Kilic, V Ivanov, HO Tekin, [A closer look at the efficiency calibration of LaBr₃ \(Ce\) and NaI \(Tl\) scintillation detectors using MCNPX for various types of nuclear investigations](#), *Heliyon* 8 (10), e10839, 2022 (10) [Web of Science](#)
 1. ALMisned, G., Guler, O., Baykal, D. S., Kilic, G., & Tekin, H. O. (2024). Titanium alloys as nuclear reactor materials: A closer-look at mechanical, gamma-ray, neutron, and transmission properties of different grade alloys through MCNPX code application. *Nuclear Engineering and Technology*, 56(9), pages 3501-3511. <https://doi.org/10.1016/j.net.2024.03.047> [Web of Science](#)
 2. Hila, F. C., Guillermo, N. R. D., Amorsolo, A. V., & Mercado, C. C. (2024). A new excel-based Monte Carlo transport code for simulating energy response spectra and efficiencies in gamma-ray detection materials. *Radiation Physics and Chemistry*, 218, 111616. <https://doi.org/10.1016/j.radphyschem.2024.111616>
 3. Arctout, A., Boukhal, H., Chakir, E., Jarmouni, M., Assalmi, M., El Ghalbzouri, T., O.E. Belhaj , Mohamed Drissi El-Bouzaidi, A. Nouayti , I. Zidouh & El Yaakoubi, H. (2024). A comparative analysis of the NaI detector response function using GAMOS and FLUKA Monte Carlo simulations. *Nuclear Analysis*, 3 (4), 100138.

89. HO Tekin, G ALMisned, SAM Issa, HMH Zakaly, G Kilic, A Ene, [Calculation of NaI \(Tl\) detector efficiency using 226Ra, 232Th, and 40K radioisotopes: Three-phase Monte Carlo simulation study](#), *Open Chemistry* 20 (1), 541-549, 2022 (10) [Web of Science](#)
 1. Li, F., Luo, C. Y., Wen, Y. Z., Lv, S., Zeng, G. Q., Liu, X. H., & Xiong, C. (2024). Simulation and calibration of radiation monitoring of nuclear power plant containment sump waste liquid. *Applied Radiation and Isotopes*, 208, 111311. <https://doi.org/10.1016/j.apradiso.2024.111311>
 2. Nahool, T., Abdelmonem, A., Darwish, M., & Mustafa, Y. (2024). Using Machine Learning to Predict Gamma Shielding Properties: A Comparative Study. *New Journal of Physics*, 26, 093035. DOI 10.1088/1367-2630/ad4a21

90. NRJ Hynes, NJ Vignesh, C Barile, PS Velu, T Baskaran, JTW Jappes, Omar Ali Al-Khashman, Michail Brykov, Antoaneta Ene, [Green Corrosion Inhibition on Carbon-Fibre-Reinforced Aluminium Laminate in NaCl Using Aerva Lanata Flower Extract](#), *Polymers* 14 (9), 1700, 2022 (10) [Web of Science](#)
 1. Galleguillos Madrid, F. M., Soliz, A., Cáceres, L., Bergendahl, M., Leiva-Guajardo, S., Portillo, C., Douglas Olivares, Norman Toro, Victor Jimenez-Arevalo & Pérez, M. (2024). Green Corrosion Inhibitors for Metal and Alloys Protection in Contact with Aqueous Saline. *Materials*, 17(16), 3996. <https://doi.org/10.3390/ma17163996>
 2. Sheydaei, M. (2024). The Use of Plant Extracts as Green Corrosion Inhibitors: A Review. *Surfaces*, 7(2), 380-403. <https://doi.org/10.3390/surfaces7020024>
 3. Meena, O., Kaushal, S., Kumar, S., & Dalal, J. (2024). Euphorbia nerifolia extracts as green corrosion inhibitors for aluminium in hydrochloric and nitric acid media. *Discover Materials*, 4(1), 102. <https://doi.org/10.1007/s43939-024-00157-8>

91. MAH Sakr, AE Omar, A Ene, MY Hanfi, [Effect of Various Proportions of Rice Husk Powder on Swelling Soil from New Cairo City, Egypt](#), *Applied Sciences* 12 (3), 1616, 2022 (11) <https://doi.org/10.3390/app12031616> [Web of science](#)
 1. Abhishek, A., Guharay, A., Raghuram, A. S. S., & Hata, T. (2024). A state-of-the-art review on suitability of rice husk ash as a sustainable additive for geotechnical applications. *Indian Geotechnical Journal*, 54, pages 910 – 944. <https://doi.org/10.1007/s40098-024-00905-w>
 2. Saad, A. M., Sakr, M. A., Selim, M. S. A., Taalab, S. A., Zakaly, H. M., Aboueldahab, S. M., Ali E. Omar, Mahmoud Zayed, S. A. M. Issa & Awad, H. A. (2024). Geotechnical and geophysical investigations for infrastructure safety zones: a case study of the supporting ring road, Cairo, Egypt. *Scientific Reports*, 14(1), 1-18. <https://doi.org/10.1038/s41598-024-72337-8>

95. T Badica, C Besliu, A Ene, A Olariu, I Popescu, [Coincidence method for the determination of minor elements in steel by proton-induced prompt gamma-ray spectrometry \(PIGE\)](#), Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 1996 (10) [https://doi.org/10.1016/0168-583X\(95\)01432-2](https://doi.org/10.1016/0168-583X(95)01432-2)
Web of Science
- Raja, S. W., Acharya, R., Gandhi, A. D., & Singh, J. B. (2024). Characterization of ferroboron alloys by simultaneously quantifying Fe and B mass fractions and isotopic compositions of B by external particle induced gamma-ray emission method. *Journal of Analytical Atomic Spectrometry*, 39(7), 1919-1926. <https://doi.org/10.1039/D4JA00175C>
96. G ALMISNED, G SUSOY, HMH ZAKALY, E RABAA, G KILIC, E ILIK, D SEN BAYKAL, ANTOANETAENE, HUSEYIN OZAN TEKİN, [The role of Ag₂O incorporation in nuclear radiation shielding behaviors of the Li₂O-Pb₃O₄-SiO₂ glass system: A multi-step characterization study](#), Open Chemistry 21 (1), 20220354, 2023 (9) <https://doi.org/10.1515/chem-2022-0354>
Web of Science
- Alsaifi, K., Ismail, Y. A., Aloraini, D. A., Almutairi, H. M., Al-Saleh, W. M., & Shaaban, K. S. (2024). Exploring the radiation shielding properties of B₂O₃-SiO₂-ZnO-Na₂O-WO₃ glasses: A comprehensive study on mechanical, gamma, and neutron attenuation characteristics. *Progress in Nuclear Energy*, 170, 105151. <https://doi.org/10.1016/j.pnucene.2024.105151>
 - Alomari, A. H. (2024). BaO-Doped Na₂O-CaO-P₂O₅ Bioactive Glasses: A closer look at radiation attenuation properties for medical applications. *Radiation Physics and Chemistry*, 223, 112019. <https://doi.org/10.1016/j.radphyschem.2024.112019>
 - ALMISNED, G., SUSOY, G., BAYKAL, D. S., ALOMARI, A. H., & TEKİN, H. O. (2024). Evaluating the Efficacy of Multiple Concrete Compositions in Gamma Ray and Fast Neutron Shielding: Insights from MCNP 6.3 Monte Carlo Code. *Journal of Building Engineering*, 98, 111205. <https://doi.org/10.1016/j.jobe.2024.111205>
 - Alkarrani, H., ALMISNED, G., & TEKİN, H. O. (2024). A benchmarking analysis on different rubber materials: towards customisation of lightweight and effective radiation protection solutions for aerospace and electronic applications. *Journal of Rubber Research*, 1-13. <https://doi.org/10.1007/s42464-024-00272-4>
 - El-Khatib, A. M., Zard, K., Abbas, M. I., & Gouda, M. M. (2024). Novel composite based on silicone rubber and a nano mixture of SnO₂, Bi₂O₃, and CdO for gamma radiation protection. *Scientific Reports*, 14(1), 1578. <https://doi.org/10.1038/s41598-024-51965-0>
 - Alomari, A. H., & Al-Qahtani, S. M. (2024). Enhanced gamma shielding properties of borosilicate glasses with Gd₂O₃ addition: A theoretical study using Phy-X/PSD and XCOM programs. *Journal of Radiation Research and Applied Sciences*, 17(3), 100996. <https://doi.org/10.1016/j.jrras.2024.100996>
 - YILMAZ ALAN, H. (2024). Efficacy of Barium and Calcium Additives in Lithium Silicate Glasses for Nuclear Shielding Applications. *Physica Scripta*, 99(7), DOI 10.1088/1402-4896/ad57ff
97. YS Rammah, SAM Issa, HO Tekin, A Badawi, A Ene, HMH Zakaly, [Binary contributions of Dy³⁺ ions on the mechanical and radiation resistance properties of oxyfluoroborotellurite Dyx-glasses](#), Journal of Materials Research and Technology 18, 820-829, 2022 (8) <https://doi.org/10.1016/j.jmrt.2022.03.005>
Web of Scence
- Sayed M I, Almuqrin AH, Mahmoud KA. Detailed investigations for mechanical and gamma-ray attenuation characteristics of B₂O₃-ZnO-BaO-TiO₂ glasses doped with PbO. *Journal of Materials Research and Technology*. 2024, 30, 3011-3020. <https://doi.org/10.1016/j.jmrt.2024.04.035>
98. M Ahmad, KA Aly, A Dahshan, Y Saddeek, HMH Zakaly, AM Abd Elhameim, [Antoaneta Ene, Physical Characterization and Crystallization Kinetics of Amorphous BiSe Chalcogenide Glasses](#), Journal of Materials Research and Technology 16, 1114-1121, 2022 (9). <https://doi.org/10.1016/j.jmrt.2021.12.073>
Web of Science
- Jabar, A., Maaouni, N., Benyoussef, S., & Bahmad, L. (2024). Investigation into the physical characteristics of the compounds XBiSe₂ (X= Li, Na or K). *Journal of Molecular Modeling*, 30(5), 1-12. <https://doi.org/10.1007/s00894-024-05960-x>
 - Alsaif, N. A. M., Aly, K. A., & Ibraheem, A. A. (2024). Linear and non-linear optical properties of (Ge₁S₂)_{100-X}(As₂Te₃)_X (0≤ x≤ 100) films. *Optical Materials*, 149, 114972. <https://doi.org/10.1016/j.optmat.2024.114972>
 - Han W, Ran M, Chen C, Chen W. The Isothermal and Non-Isothermal Growth Behaviors of Ca₂Nb₂O₇ in Molten Slag. *Crystal Research and Technology*, 59(6), 2300304. <https://doi.org/10.1002/crat.202300304>
99. S Kovalyshyna, T Chuzekova, M Grandova, E Onishchenko, E Zubcov, Volodymyr Ukrainskyy, Oleksandr Goncharov, Oxana Munjiu, Mikhailo Nabokin, Antoaneta Ene , [Ecological Conditions of the Lower Dniester and Some Indicators for Assessment of the Hydropower Impact](#), Applied Sciences 11 (21), 9900, 2021 (9) <https://doi.org/10.3390/app11219900>
Web of Science
- Nesterovskyi, V. A., Tarnovetskyi, A. K., Deiak, M. A., Hrychchenko, N. O., & Manyuk, V. V. (2024). Role of river transport and coastal abrasion in forming modern coastal and marine sediments in the Northwestern Black Sea. *Journal of Geology, Geography and Geoecology*, 33(2), 340-353. <https://doi.org/10.15421/112432>
 - Ciornea, V., Cojocaru, C., & Zubcov, E. (2024). Assessing the chemical composition of natural water using analytical chemistry techniques. a case study in the orhei district, Republic of Moldova. *Chemistry Journal of Moldova*, 19(2), 101-112.
100. G ALMISNED, HO TEKİN, G BİLAL, A ENE, G KİLİC, SAM İSSA, M ALGETHAMİ, HESHAM MH ZAKALY, [Trivalent Ions and Their Impacts on Effective Conductivity at 300 K and Radio-Protective Behaviors of Bismo-Borate Glasses: A Comparative Investigation for Al, Y, Nd, Sm, Eu](#), Materials 14 (19), 5894, 2021 (8) <https://doi.org/10.3390/ma14195894>
Web of Science
- Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammary & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
 - Alkhamis, K., Alghasham, H. A., Almahri, A., Alessa, H., Osra, O. A., Al-Ghamdi, S. A., Adel M. Binyaseen& El-Metwally, N. M. (2024). Iron borophosphate glasses: Merging optical transparency, structural integrity, and radiation shielding efficacy for sustainable uses. *Arabian Journal of Chemistry*, 17(9), 105875. <https://doi.org/10.1016/j.arabic.2024.105875>
103. G Almisned, ZY Khattari, DS Baykal, G Susoy, G Kilic, A Ene, HO Tekin, [Tailoring a correlation between fracture resistance improvement, elastic moduli, mechanical and nuclear radiation shielding properties for sodium-borate glasses through Gallium \(III\) oxide incorporation](#), Journal of Materials Research and Technology 27, 7582-7592, 2023 (8) <https://doi.org/10.1016/j.jmrt.2023.11.195>
 - Mhareb, M. H. A., Hamad, M. K., Sayyed, M. I., Alshamari, A., Dwaikat, N., Makhadmeh, G. N., Muna Alqahtani, Q.A. Drmosh, Ibrahim Alrammeh & Alsuhaybani, M. (2024). The impact of gamma-ray doses on structural, optical, and mechanical features of tellurite glass modified with different oxides for use in radiation shielding field. *Radiation Physics and Chemistry*, 224, 112090. <https://doi.org/10.1016/j.radphyschem.2024.112090>

2. ALMisned, G., Susoy, G., Baykal, D. S., Alkarrani, H., Güler, Ö. & Tekin, H. O. (2024). A closer-look on W and Pb alloys: In-depth evaluation in elastic modulus, gamma-ray, and neutron attenuation for critical applications. *Nuclear Engineering and Design*, 420, 113063. <https://doi.org/10.1016/j.nucengdes.2024.113063>
 3. Almisned, G., Susoy, G., Baykal, D. S., & Tekin, H. O. (2024). A comparative investigation on mechanical, gamma-ray and neutron shielding properties of some Iron and Boron containing concretes samples for nuclear safety applications. *Radiation Physics and Chemistry*, 223, 111987. <https://doi.org/10.1016/j.radphyschem.2024.111987>
 4. AlMisned, G., Susoy, G., Baykal, D. S., Kilic, G., & Tekin, H. O. (2024). An extensive benchmark analysis of advanced ceramic-concretes towards strategic material selection for nuclear applications and waste management. *Ceramics International*, volume 50, issue 10, pages 17075 – 17085.
 5. Almansoori, A., Almisned, G., Baykal, D. S., Kilic, C. S., & Tekin, H. O. (2024). Energy deposition responses, transmission factors, and radiation interaction properties of some antibiotics: A critical assessment for substantial molecular alterations as a function of radiation exposure. *Radiation Physics and Chemistry*, 216, 111473.
 6. Baykal, D. S., Afaneh, F., Susoy, G., Al-Omari, S., ALMisned, G., Kilic, G. Ö. K. H. A. N., Z.Y. Khattari, Bashar Issa & Tekin, H. O. (2024). Enhancing mechanical, physical, radiation attenuation properties in alumino-barium-titanium-calcium-lithium glasses for nuclear applications: The pivotal role of TiO₂ additives. *Radiation Physics and Chemistry*, 217, 111507. <https://doi.org/10.1016/j.radphyschem.2023.111507>
 7. Kurtulus, R., Kavaz, E., Kavas, T., ALMisned, G., Perisanoglu, U., & Tekin, H. O. (2024). Synthesis, structural, optical and experimental gamma-ray shielding properties of molybdenum-trioxide reinforced CRT glasses. *Journal of the Australian Ceramic Society*, 60, pages 1103 - 1119. <https://doi.org/10.1007/s41779-024-01016-8>
104. NRJ Hynes, R Sankaranarayanan, JA J Sujana, GM Krolczyk, A Ene, **Decision tree approach based green flow-drilling of hybrid aluminium matrix composites using eco-friendly coolants**, *Journal of Manufacturing Processes* 80, 178-186, 2022 (8) <https://doi.org/10.1016/j.jmapro.2022.05.050>
Web of Science
1. Karakoc, H., Bilgin, M., & Karabulut, S. (2024). Study on the friction drilling behaviors and tribological properties of aluminum matrix composites. *Materials Today Communications*, 38, 108086. <https://doi.org/10.1016/j.mtcomm.2024.108086>
2. Li, R. (2024). Characteristic study of multiple air beam approach for in-process measurement with coolant condition. *Journal of Manufacturing Processes*, 126, 487-500. <https://doi.org/10.1016/j.jmapro.2024.07.123>
105. MK Gurunathan, NRJ Hynes, OA Al-Khashman, M Brykov, N Ganesh, Antoaneta Ene, **Study on the Impact and Water Absorption Performance of *Prosopis juliflora* & Glass Fibre Reinforced Epoxy Composite Laminates**, *Polymers* 14 (15), 2973, 2022 (8) <https://doi.org/10.3390/polym14152973>
Web of Science
1. Arivendan, A., Sumesh, K. R., Chen, X., Zhang, Y. F., Gao, W., Syamani, F. A., Winowlin Jappes Jebas Thangiah & Siva, I. (2024). Extraction and characterization of novel *Prosopis juliflora* bark and Boehmeria nivea fibre for use as reinforcement in the hybrid composites with the effect of curing temperature, fibre length and weight percentages. *International Journal of Biological Macromolecules*, 279, part 1, 135093. <https://doi.org/10.1016/j.ijbiomac.2024.135093>
2. Padmanabhan, R. G., Rajesh, S., Karthikeyan, S., Palanisamy, S., Ilyas, R. A., Ayrilmis, N., ElSayed M. Tag-eldin & Kchau, M. (2024). Evaluation of mechanical properties and Fick's diffusion behaviour of aluminum-DMEM reinforced with hemp/bamboo/basalt woven fiber metal laminates (WFML) under different stacking sequences. *Ain Shams Engineering Journal*, 15(7), 102759. <https://doi.org/10.1016/j.asej.2024.102759>
3. Zhang, Y., Yan, S., Wang, X., Guan, Y., Du, C., Fan, T., Hanhua Li & Zhai, J. (2024). An Experimental Investigation of the Mechanism of Hygrothermal Aging and Low-Velocity Impact Performance of Resin Matrix Composites. *Polymers*, 16(11), 1477. <https://doi.org/10.3390/polym16111477>
106. M Rashad, S Helali, S Issa, S Al-Ghamdi, M Alsharif, AO Alzahrani, Mohamed Sobhi, Antoaneta Ene, Alaa M Abd-Elhaiem, **Adsorption Study of Congo Red Dye from Synthetic Wastewater at Different Concentrations Using Zinc Sulfide Nanoparticles**, *Materials* 15 (14), 5048, 2022 (8) <https://doi.org/10.3390/ma15145048>
Web of Science
1. Rashad, M., Kotb, H. M., Helali, S., Ahmad, M. M., Albalawi, A. E., Alatawi, N. S., Bassam Al-Faqiri, Abdulrhman M. Alsharari & Abd-Elhaiem, A. M. (2024). Structural analysis and photocatalytic degradation towards methylene blue using (Nb_{0.5}Si_{0.5})xTi_{1-x}O₂ nanocomposites. *Ceramics International*, 50(1), 512-525. <https://doi.org/10.1016/j.ceraint.2023.10.127>
2. Younas, M., & Javed, T. (2024). Exploring the efficiency of sugarcane bagasse (*Saccharum officinarum*) for decontamination of wastewater containing Congo red dye. *Journal of Dispersion Science and Technology*, 45(6), 1049-1060.
107. AMA Mostafa, BO Elbashir, SAM Issa, MAM Uosif, A Ene, M Algethami, Omeh Bawazeer, EF El Agammy, Hesham MH Zakaly, **Influence of combining Al₂O₃, La₂O₃, Gd₂O₃, and Dy₂O₃ with barium borosilicate Glass-ceramics: A case study of gamma radiation interaction parameters**, *Journal of Materials Research and Technology* 19, 1972-1981, 2022 (8) <https://doi.org/10.1016/j.jmrt.2022.05.095>
Web of Science
1. Khalil, H. F., Issa, S. A., Elsharkawy, S. G., Boudaghi Malidarreh, R., Gad, S., Badawi, A., Fatma Fakhry, & Zakaly, H. M. (2024). Advancing ZMF-spinel ferrites with Gd³⁺ doping: structural, magneto-optical enhancements, and superior gamma-ray shielding for high-tech applications. *Journal of Sol-Gel Science and Technology*, 112(3), 898-921. <https://doi.org/10.1007/s10971-024-06520-8> **Web of Science**
2. Almousa, N., Nabil, I. M., Issa, S. A., & Zakaly, H. M. (2024). Enhancing Radiation Shielding with Gadolinium (III) Oxide in Cerium (III) Fluoride-Doped Silica Borate Glass. *Science and Technology of Nuclear Installations*, 2024(1), 8910531. <https://doi.org/10.1155/2024/8910531>
3. Oto, B., Cakar, N., Kavaz, E., & Madak, Z. (2024). An experimental study on gamma radiation attenuation effectiveness of magnetite and serpentine doped ceramics. *Progress in Nuclear Energy*, 169, 105079.
4. Alomari, A. H., & Al-Qahtani, S. M. (2024). Enhanced gamma shielding properties of borosilicate glasses with Gd₂O₃ addition: A theoretical study using Phy-X/PSD and XCOM programs. *Journal of Radiation Research and Applied Sciences*, 17(3), 100996. <https://doi.org/10.1016/j.jrras.2024.100996> **Web of Science**
108. HMH Zakaly, HA Awad, NM Moghazy, HO Tekin, A Rabie, MM Fawzy, Amira M El-Tohamy, Antoaneta Ene, Shams AM Issa, **Analysis of the Radiological, Mineralogical and Long-Term Sustainability of Several Commercial Aswan Granites Used as Building Materials**, *Sustainability* 14 (6), 3553, 2022 (8) <https://doi.org/10.3390/su14063553>
1. Zakaly, H. M., Awad, H. A., El Saeed, R. L., Issa, S. A., Elsaman, R., Khandaker, M. U., Hezam Al-awah, Douaa Fathy & Sami, M. (2024). Radiometric and petrographic characterization of El-Yatima granite: Evaluating radiological risks and mineralogical features. *Radiation Physics and Chemistry*, 224, 111992. <https://doi.org/10.1016/j.radphyschem.2024.111992>
2. Aboelhassan, N., Tarabeees, E., El Bastawesy, M., Mogren, S., Nabawy, B. S., Ibrahim, E., & Qadri, S. T. (2024). Integrated Seismic, Petrophysical, and Geochemical studies for evaluating the petroleum system of the Upper Bahariya-Abu Roash G sequence in the Karama Field, Abu Gharaib Basin, North Western Desert, Egypt. *Journal of African Earth Sciences*, 219, 105413. <https://doi.org/10.1016/j.jafrearsci.2024.105413>
3. Aswood, M. S., & Elewee, A. A. (2024). Lung dose determined due to inhalation of radon gas from building materials used in Al-Shatra city, Dhi-Qar Governorate, Iraq. *International Journal of Radiation Research*, 22(1), 223-227.

109. FC Caprita, A Ene, A Cantaragi Ceoromila, **Valorification of *Ulva rigida* Algae in Pulp and Paper Industry for Improved Paper Characteristics and Wastewater Heavy Metal Filtration**, Sustainability 13 (19), 10763, 2021 (8)
1. Hofmann, L. C., Strauss, S., Shpigel, M., Guttman, L., Stengel, D. B., Rebourg, C., Natasha Gjorgovska, Gamze Turan, Karina Balina, Gabrielle Zammit, Jessica M. M. Adams, Umair Ahsan, Angela G. Bartolo, John J. Bolton, Rosário Domingues,t, Ömerhan Düranlı, Orhan TufanErolodogam,w, Andreia Freitasx,y, Alexander Golbergz, Kira I. Kremer, Francisca Marquesst,t, Massimo Miliaab,Sophie Steinhabenac, Ekin Sucuad, Liliana Vargas-Murgaae, Shiri Zemah-Shamiraf, Ziv Zemah-Shamir & Meléndez-Martínez, A. J. (2024). The green seaweed Ulva: tomorrow's "wheat of the sea" in foods, feeds, nutrition, and biomaterials. *Critical Reviews in Food Science and Nutrition*, 1-36. <https://doi.org/10.1080/10408398.2024.2370489>
 2. Pruski, D., & Sprynsky, M. (2024). Jet Fuel Contamination: Forms, Impact, Control, and Prevention. *Energies*, 17(17), 4267. DOI 10.3390/en17174267
110. R Corobov, A Ene, I Trombitsky, E Zubcov, **The Prut River under climate change and hydropower impact**, Sustainability (Switzerland) 13 (1), 1-18, 2020 (8) <https://doi.org/10.3390/su13010066>
Web of Science
1. Lv, P., Zeng, S., Liu, X., & Yang, L. (2024). Changes in Streamflow Pattern and Complexity in the Whole Yangtze River Basin. *Water*, 16(17), 2467. <https://doi.org/10.3390/w16172467>
111. IA SIMIONOV, V CRISTEA, SM PETREA, A MOGODAN, A NICA, Stefan-Adrian STRUNGARU, ENE Antoaneta, Daniela Ancuta SARPE, **HEAVY METAL EVALUATION IN THE LOWER SECTOR OF DANUBE RIVER**, SCIENTIFIC PAPERS-SERIES E-LAND RECLAMATION EARTH OBSERVATION & SURVEYING ENVIRONMENTAL ENGINEERING , 2020 (8)
Web of Science
1. Lazăr, N. N., Simonov, I. A., Petrea, Ş. M., Iticescu, C., Georgescu, P. L., Dima, F., & Antache, A. (2024). The influence of climate changes on heavy metals accumulation in *Alosa immaculata* from the Danube River Basin. *Marine Pollution Bulletin*, 200, 116145. <https://doi.org/10.1016/j.marpolbul.2024.116145>
 2. CATIANIS, I., CONSTANTINESCU, A. M., GROSU, D., IORDACHE, G., DUTU, F., & PAVEL, A. B. (2024). ASSESSMENT OF THE SURFACE WATER QUALITY DATA COLLECTED SEASONALLY AT THE DANUBE RIVER BIFURCATIONS (CEATAL IZMAIL AND CEATAL SF. GHEORGHE). *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, 13.
113. S GOSAV, A Ene, M Aflo, **Characterization and discrimination of plant fossils by ATR-FTIR, XRD and chemometric methods**, Romanian Journal of Physics 64, 806, 2019 (8)
Web of Science
1. Ceylan, Z., İnanlı, A. G., Meral, R., Dalkılıç, S., Dalkılıç, L. K., Karaismailoğlu, M. C., Hande Seven Avuk & Köse, N. (2024). Bioactive nano-scale material approved with HepG2 and MCF-7 cancer cell lines, antimicrobial properties and characterization parameters. *Food Bioscience*, 61, 104696. <https://doi.org/10.1016/j.fbio.2024.104696> **Web of Science**
116. A EL-TAHER, A ASHRY, A ENE, M ALMESHARI, HMH ZAKALY, **DETERMINATION OF PHOSPHATE ROCK MINES SIGNATURES USING XRF AND ICP-MS ELEMENTAL ANALYSIS TECHNIQUES: RADIONUCLIDES, OXIDES, RARE EARTH AND TRACE ELEMENTS**, Romanian Reports in Physics, 75 (2), 701, 2023 (7).
Web of Science
1. Sable, H., Singh, V., Kumar, V., Roy, A., Pandit, S., Kaur, K., Rustagi S & Malik, S. (2024). Toxicological and bioremediation profiling of nonessential heavy metals (mercury, chromium, cadmium, aluminium) and their impact on human health: A review. *Toxicologie Analytique et Clinique*, 36(3), pages 205-234. <https://doi.org/10.1016/j.toxac.2024.03.096>
 2. Dumitru, A., Olaru, E. A., Dumitru, M., & Iorga, G. (2024). Assessment of air pollution by aerosols over a coal open-mine influenced region in southwestern Romania. *Rom. J. Phys.*, 69, 801. : <https://doi.org/10.59277/RomJPhys.2024.69.801>
117. MAM Uosif, SAM Issa, A Ene, AMA Mostafa, A Atta, EF El Agammy, Hesham MH Zakaly, **Lead-Free Ternary Glass for Radiation Protection: Composition and Performance Evaluation for Solar Cell Coverage**, Materials 16 (8), 3036, 2023 (7) <https://doi.org/10.3390/ma16083036>
Web of Science
1. Vedavyas, S., Nabil, I. M., Sekhar, K. C., Almousa, N., Issa, S. A., Shareefuddin, M., & Zakaly, H. M. (2024). Characterization and analysis of physical, optical, and radiation attenuation properties of vanadium-infused in cadmium lead borate tellurite glasses. *Optical Materials*, 150, 115157. <https://doi.org/10.1016/j.optmat.2024.115157>
 2. Es-soufi, H., Ouachouo, L., Sayyed, M. I., & Bih, L. (2024). Evaluating Mechanical, Durability, and Gamma Shielding Performance in Boro-Phosphate Glasses with Tungsten Oxide Replacements. *Optical Materials*, 157, 116424. <https://doi.org/10.1016/j.optmat.2024.116424>
 3. Aliyu, A. S., Dunama, A. M., Aliyu, U. S., Hamza, A. M., Nyakuma, B. B., Gaya, U. I., Joseph D. Zira, Muktar M. Liman, Lorbee Joseph V.& Liman, M. S. (2024). Bismuthite and cassiterite-doped borosilicate glass systems for X-rays attenuation: Fabrication and characterisation. *Optical Materials*, 151, 115365. <https://doi.org/10.1016/j.optmat.2024.115365>
 4. Akman, F., Kilicoglu, O., Ogul, H., Ozdogan, H., Kacal, M. R., & Polat, H. (2024). Assessment of neutron and gamma-ray shielding characteristics in ternary composites: Experimental analysis and Monte Carlo simulations. *Radiation Physics and Chemistry*, 219, 111682. <https://doi.org/10.1016/j.radphyschem.2024.111682>
 5. Tharwat, M. A., EL-Mesady, I. A. M., goma, W., & Ibrahim, S. E. Exploring HgO Effect on Structural, Dielectric, Optical, and Radiation Shielding Properties of Borate-based Glass. *Physica Scripta*, 99(12), 125982. DOI 10.1088/1402-4896/ad9115
118. G ALMisned, E Rabaa, YS Rammah, ZY Khattari, DS Baykal, E Ilik, G Kilic, Hesham MH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, **A Promising Glass Type in Electronic and Laser Applications: Elastic Moduli, Mechanical, and Photon Transmission Properties of WO_3 Reinforced Ternary-Tellurite Glasses**, Symmetry 15 (3), 602, 2023 (7) <https://doi.org/10.3390/sym15030602>
Web of Science
1. ALMisned, G., Baykal, D. S., Alkarrani, H., Kilic, G., Zakaly, H. M., Issa, S. A., & Tekin, H. O. (2024). Mechanical and, photon transmission properties of rare earth element (REE) doped BaO–B2O3–Li2O–Al2O3–P2O5 glasses for protection applications. *Journal of Radiation Research and Applied Sciences*, 17(3), 101041. <https://doi.org/10.1016/j.jrras.2024.101041> **Web of Science**
 2. Alai, H. Y., ALMisned, G., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., E. Ilik, Bahar Tuysuz, Selin Ece Topuzlar, Baki Akkus & Tekin, H. O. (2024). Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation. *Journal of the Australian Ceramic Society*, 60(3), 823-832. <https://doi.org/10.1007/s41779-023-00984-7>
 3. Baykal, D. S., Afaneh, F., Susoy, G., Al-Omari, S., ALMisned, G., Kilic, G., Z.Y. Khattari , Bashar Issa & Tekin, H. O. (2024). Enhancing mechanical, physical, radiation attenuation properties in alumino-barium-titanium-calcium-lithium glasses for nuclear applications: The pivotal role of TiO2 additives. *Radiation Physics and Chemistry*, 217, 111507. <https://doi.org/10.1007/s41779-023-00984-7> **Web of Science**

119. A Ene, HMH Zakaly, AR Salem, AA Gouda, K Althumayri, KF Alshammary, Hamdi A Awad, Shams AM Issa, Ahmad A Alluhaybi, Salah A Zaki, Hala A Ibrahim, Mohamed A Gado, Enass M El-Sheikh, Bahig M Atia, [A New Partially Phosphorylated Polyvinyl Phosphate-PPVP Composite: Synthesis and Its Potentiality for Zr \(IV\) Extraction from an Acidic Medium](https://doi.org/10.3390/separations9110382), Separations 9(11), 382, 2022 (6) <https://doi.org/10.3390/separations9110382> Web of Science

1. Abdalla, M. (2024). Adsorption of vanadium using a new anionic Schiff Base adsorbent and its application to vanadium separation from boiler ash. *Journal of Chemical Technology & Biotechnology*, 99(11), 2434-2453. <https://doi.org/10.1002/jctb.7733> Web of Science
2. Mahmoud, S. A., Atia, B. M., & Abdalla, M. (2024). Polyvinyl Alcohol-Conjugated L-Cysteine: A Novel Metal Pincer for Efficient Heavy Metal Ions Removal from Wastewater. *ChemistrySelect*, 9(26), e202401169. <https://doi.org/10.1002/sclt.202401169>
3. Younis, H. M. (2024). Fabrication of an innovative phosphonate Schiff base adsorbent for molybdenum adsorption and its applications for molybdenum adsorption from spent hydrodesulfurization catalyst. *Journal of Chemical Technology & Biotechnology*, 99(9), 2003-2026. <https://doi.org/10.1002/jctb.7702>

120. HO Tekin, FT Ali, G Almisned, G Susoy, SAM Issa, A Ene, W Elshami, Hesham MH Zakaly, [Multiple assessments on the gamma-ray protection properties of niobium-doped borotellurite glasses: A wide range investigation using Monte Carlo simulations](https://doi.org/10.1155/2022/5890896), Science and Technology of Nuclear Installations 2022, 5890896 (7) <https://doi.org/10.1155/2022/5890896> Web of Science

1. Almousa, N., Abouhaswa, A. S., Issa, S. A., Nabil, I. M., & Zakaly, H. M. (2024). Influence of titanium dioxide doping on the attenuation and optical characteristics of magnesium borate glass systems. *Ceramics International*, 50(13), 24156-24166. <https://doi.org/10.1016/j.ceramint.2024.04.147>

121. HA AWAD, ABU EL-LEIL, RM EL-WARDANY, A ENE, A TOLBA, MOSTAFA KAMEL, ALEKSEY NASTAVKIN, HESHAM MH ZAKALY [MINERALOGY AND RADIOACTIVITY LEVEL OF THE NEW OCCURRENCE OF ILMENITE BEARING GABBRO AT ABU MURRAT, NORTHEASTERN DESERT, EGYPT](#), Romanian Journal of Physics 67 (3-4), 803, 2022 (7) Web of Science

1. Abdelwahab, W., & El-Shamy, A. M. (2024). Exploring Talc Deposits: Physical Characteristics, Geological Factors, and Formation in Ultramafic and Mafic Rocks—A Comprehensive Review. *Chemistry Africa*, 8, 43 -83. <https://doi.org/10.1007/s42250-024-01151-6>
2. Zakaly HM, Awad HA, Abbasi A, Almousa N, Elsaman R, El-Salam A, Lotfy M, Mostafa AM, Issa SA. Radioactive and mineralogical assessment of mediterranean black sands: a systematic analysis and health risk evaluation. *Journal of Radioanalytical and Nuclear Chemistry*, 2024, 333(4), 1937 – 1947. <https://doi.org/10.1007/s10967-024-09452-3> Web of Science

122. AMA Mostafa, MAM Uosif, ZA Alrowaili, R Elsaman, AA Showahy, Yasser B Saddeek, Shams AM Issa, Antoaneta Ene, Hesham MH Zakaly, [The Influence of CoO/P₂O₅ Substitutions on the Structural, Mechanical, and Radiation Shielding of Borophosphate Glasses](https://doi.org/10.3390/ma14216632), Materials 14 (21), 6632, 2021 (7) <https://doi.org/10.3390/ma14216632> Web of Science

1. Al Huwayz, M., Basha, B., Alalawi, A., Alrowaili, Z. A., Sriwunkum, C., Alsaiari, N. S., & Al-Buriali, M. S. (2024). Influence of BaO addition on gamma attenuation and radiation shielding performance of SiO₂-B₂O₃-SrO-ZrO₂ glasses. *Journal of Radiation Research and Applied Sciences*, 17(4), 101119. <https://doi.org/10.1016/j.jrras.2024.101119> Web of Science
2. Aqdim, S., Najj, M., Chakir, A., El Kssiri, O., Filali, M., & El Bouari, A. (2024). Reassessment of Electrical and Dielectric Properties in the Borophosphate Glass System: A Promising Solid Electrolyte for High-Temperature Batteries. *The Journal of Physical Chemistry B*, 128(36), 8818–8834. <https://doi.org/10.1021/acs.jpcb.4c04177>
3. Alzahrani JS, Alrowaili ZA, Alnairi MM, Olarinoye IO, Alomairy S, Al-Buriali MS. Radiation Shielding and Dosimetry Parameters of Silica–Borate Glasses with Fe₂O₃/Sm₂O₃. *Silicon*, 2024, 16, 3785 - 3794. <https://doi.org/10.1007/s12633-024-02962-5> Web of Science
4. Vinothkumar, P., Priyadarshini, E., Praveenkumar, S., Sathiyamurthy, S., Mani, K. S., Ayyar, M., Mohamed Hashem , Hassan Fouad & Ansari, A. (2024). Synthesis structural optical and mechanical properties of Nb³⁺ doped Zinc Borophosphate glass for radiation shielding application. *Zeitschrift für Physikalische Chemie*, 238(3), 459-485. <https://doi.org/10.1515/zpch-2023-0473>

125. V Pintilie, A Ene, LP Georgescu, AG Pintilie, DI Moraru, C Iticescu, [Gross alpha, gross beta and radionuclides \(²¹⁰Po, ²¹⁰Pb, ²³⁸U, ²³²Th, ²²⁶Ra and ⁴⁰K\) exposure assessment due to meat consumption](https://doi.org/10.1007/s10967-018-6156-y), Journal of Radioanalytical and Nuclear Chemistry 318, 991-1000, 2018 (7) <https://doi.org/10.1007/s10967-018-6156-y> Web of Science

1. Ahamad, T., Nautiyal, O. P., Joshi, M., Singh, P., Sajwan, R. S., Rana, A. S., & Bourai, A. A. (2024). Measurement of indoor radioactivity and dose derived from 222Rn, 220Rn and EECs by using SSNTD based technique. *Radiation Protection Dosimetry*, 200(11-12), 1011-1017. <https://doi.org/10.1093/rpd/ncad321>

128. A Ene, SS Moraru, DI Moraru, A Pantelica, S Gosav, AM Ceormila, [Major and Trace Element Accumulation in Soils and Crops \(Wheat, Corn, Sunflower\) around Steel Industry in the Lower Danube Basin and Associated Ecological and Health Risks](https://doi.org/10.3390/app14135616), Applied Sciences 14 (13), 5616, 2024 (6) <https://doi.org/10.3390/app14135616> Web of Science

1. Mustapha, L. S., Kolade, S. O., Durosinmi, S. O., Tan, I. S., Lau, S. Y., & Obayomi, K. S. (2024). Anthill clay activated Ocimum gratissimum extract for effective adsorption of methylene blue and chromium (VI) ion from wastewater: Insights into the adsorption isotherms, kinetics, thermodynamics, and mechanisms. *Journal of Water Process Engineering*, 67, 106286. <https://doi.org/10.1016/j.jwpe.2024.106286>
2. Tian, T., Wu, C., Gong, L., Yao, C., Xiao, H., Liu, L., & Li, F. (2024). Insights on Immobilization of Cd Contamination in Soil: Synergic Impacts of Water Management and Bauxite Residue. *ACS Omega.*, 9(49), 48497–48504. <https://doi.org/10.1021/acsomega.4c07130> Web of Science
3. Seif, R. A., Ene, A., Zakaly, H. M., Sallam, A. M., Taalab, S. A., Fnais, M. S., Diaa A. Saadawi, Shaimaa A. Amer & Awad, H. A. (2024). Distribution of Heavy Metals along the Mediterranean Shoreline from Baltim to El-Burullus (Egypt): Consequences for Possible Contamination. *Minerals*, 14(9), 931. <https://doi.org/10.3390/min14090931>

129. G Almisned, DS Baykal, E Ilik, M Abuzaid, SAM Issa, G Kilic, HMH Zakaly, **Antoaneta Ene**, Huseyin Ozan Tekin, **Tungsten (VI) oxide reinforced antimony glasses for radiation safety applications: A throughout investigation for determination of radiation shielding properties and transmission factors**, *Heliyon*, 2023, Volume 9, Issue 7, e17838, 2023 (6) <https://doi.org/10.1016/j.heliyon.2023.e17838>
- Kanagaraj, B., Anand, N., Raj, S., & Lubloy, E. (2024). Advancements and environmental considerations in portland cement-based radiation shielding concrete: Materials, properties, and applications in nuclear power plants—review. *Cleaner Engineering and Technology*, 19, 100733. <https://doi.org/10.1016/j.clet.2024.100733> Web of Science
1. ALMISNED, G., Baykal, D. S., Alkarrani, H., Kilic, G., Zakaly, H. M., Issa, S. A., & Tekin, H. O. (2024). Mechanical and photon transmission properties of rare earth element (REE) doped BaO–B₂O₃–Li₂O–Al₂O₃–P₂O₅ glasses for protection applications. *Journal of Radiation Research and Applied Sciences*, 17(3), 101041. <https://doi.org/10.1016/j.jrras.2024.101041> Web of Science
 2. Rajabpour, S., Almisned, G., Tekin, H. O., & Mesbah, A. (2024). Innovative nano-shielding for minimizing stray radiation dose in external radiation therapy: A promising approach to enhance patient safety. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 556, 165513. <https://doi.org/10.1016/j.nimb.2024.165513> Web of Science
 3. Sen Baykal, D. (2024). A comparative investigation of neutron and gamma radiation interaction properties of zircaloy-2 and zircaloy-4 with consideration of mechanical properties. *Open Physics*, 22(1), 20240088. <https://doi.org/10.1515/phys-2024-0088> Web of Science
130. Y Say, Ö Güler, E Kavaz, G ALMISNED, **A Ene**, HO Tekin, **Structural, physical, and radiation absorption properties of a significant nuclear power plant component: A comparison between REX-734 and 316L SS austenitic stainless steels**, *Open Chemistry* 21 (1), 20220307, 2023 (6) <https://doi.org/10.1515/chem-2022-0307> Web of Science
1. Güler, S. H., Güler, Ö., Kavaz, E., Almisned, G., Issa, B., & Tekin, H. O. (2024). Exploring critical behavioral differences in physical, structural, and nuclear radiation attenuation properties of produced High Entropy Alloy (HEA) and Refractory-High Entropy Alloy (RHEA) samples. *Current Applied Physics*, 58, 1-10. <https://doi.org/10.1016/j.cap.2023.11.011> Web of Science
 2. Güler, Ö., Albayrak, M. G., Başgöz, Ö., Kavaz, E., Alkarrani, H., ALMISNED, G., & Tekin, H. O. (2024). Development and in-depth experimental characterization of novel TiZrNbHfTaO_x reinforced 316L stainless steel for advanced nuclear applications. *Nuclear Engineering and Design*, 428, 113516. <https://doi.org/10.1016/j.nucengdes.2024.113516>
 3. Güngölu, K., Güler, S. H., Güler, Ö., ALMISNED, G., Ozkavak, H. V., Albayrak, M. G., Iskender Akkurt, Bashar Issa & Tekin, H. O. (2024). A comprehensive microstructural and transmission analysis on oxide dispersion-strengthened (ODS) alloys: Impact of erbium oxide (Er₂O₃) concentration on physical, structural, gamma-ray, and neutron attenuation properties. *Ceramics International*, 50(7), 10476-10484. <https://doi.org/10.1016/j.ceramint.2023.12.360> Web of Science
 4. Güler, Ö., Yılmaz, D., Kanca, M. S., Edalati, K., & Taşgin, Y. (2024). Radiation Shielding Properties of Composites of TiZrNbHfTa Refractory High Entropy Alloy Reinforced with TiZrNbHfTaO_x High-Entropy Oxide. *Journal of Alloys and Compounds*, 995, 174815. <https://doi.org/10.1016/j.jallcom.2024.174815> Web of Science
 5. Vijaya Kumar, P., & Velmurugan, C. (2024). Metal Fused Filament Fabricated Stainless Steel 316L: Heat Treatment Effects on Mechanical, Tribological, Phase Stability, and Microstructural Behavior. *Journal of Materials Engineering and Performance*, 1-10. <https://doi.org/10.1007/s11665-024-09644-8>
131. G ALMISNED, E Rabaa, D Sen Baykal, E Ilik, G Kilic, HMH Zakaly, **A Ene**, Huseyin Ozan Tekin, **The impact of chemical modifications on gamma-ray attenuation properties of some WO₃-reinforced tellurite glasses**, *Open Chemistry* 21 (1), 20220297, 2023 (6) Web of Science
1. Kurtulus, R. (2024). Recent developments in radiation shielding glass studies: A mini-review on various glass types. *Radiation Physics and Chemistry*, volume 220, 111701. <https://doi.org/10.1016/j.radphyschem.2024.111701>
 2. Zakaly, H. M., Issa, S. A., Ali, A. S., Almousa, N., Elsaman, R., Kubuki, S., & Atta, M. M. (2024). Exploring the Potential of Bismuth-Containing Silicate Borate Glasses for Optoelectronic Devices and Radiation Protection. *Optical Materials*, 156, 115956. <https://doi.org/10.1016/j.optmat.2024.115956>
 3. ALMISNED, G. (2024). Exploring a monotonically non-decreasing behavioral function on shielding properties and transmission factors in borosilicate glasses through heavy metal oxide reinforcement. *Radiation Physics and Chemistry*, 214, 111262. <https://doi.org/10.1016/j.radphyschem.2023.111262>
 4. Kattel, R., Subedi, B., & Lamichhane, T. R. (2024). Evaluation of Sb₂O₃ influences on radiation shielding properties of Sb₂O₃–B₂O₃–Bi₂O₃–TeO₂ glass system using Phy-X/PSD and SRIM software. *International Journal of Environmental Science and Technology*, 21(3), 3317-3328. <https://doi.org/10.1007/s13762-023-05192-1>
132. M Ashry, H Askar, MM Obiedallah, AH Elankily, D Galal El-Sahra, Gamal Zayed, Mohamed A Mustafa, Sawsan Abd El-Maksoud El-Shamy, Somaia A Negm, Marwa A El-Beltagy, Khaled G Abdel-Wahhab, **Antoaneta Ene**, **Hormonal and inflammatory modulatory effects of hesperidin in hyperthyroidism-modeled rats**, *Frontiers in Immunology* 14, 1160, 2023 (6) doi.org/10.3389/fimmu.2023.1087397 Web of Science
1. Kawara, R. S., Moawed, F. S., Elsenosi, Y., Elmaksoud, H. A., Ahmed, E. S., & Abo-Zaid, O. A. (2024). Melissa officinalis extract palliates redox imbalance and inflammation associated with hyperthyroidism-induced liver damage by regulating Nrf-2/Keap-1 gene expression in γ-irradiated rats. *BMC Complementary Medicine and Therapies*, 24(1), 71. <https://doi.org/10.1186/s12906-024-04370-z> Web of Science
133. G ALMISNED, DS Baykal, G Kilic, E Ilik, HMH Zakaly, **A Ene**, HO Tekin, **A critical evaluation on nuclear safety properties of novel cadmium oxide-rich glass containers for transportation and waste management: Benchmarking with a reinforced concrete** container, *Frontiers in Physics* 10, 1080354, 2022 (6) <https://doi.org/10.3389/fphy.2022.1080354> Web of Science
1. Alkarrani, H., ALMISNED, G., & Tekin, H. O. (2024). Assessing the Efficacy of Some Heavy-Metal Infused Concrete Mixtures in Gamma-ray and Neutron Shielding applications. *Radiation Physics and Chemistry*, 223, 111988. <https://doi.org/10.1016/j.radphyschem.2024.111988> Web of Science
 2. Maatouk, A., Almotawa, R. M., Alshehri, S. A., Sayyed, M. I., Qutub, M. A., Amin, H. Y., & Sadeq, M. S. (2024). Compositional impacts of high CdO content on the structure and radiation shielding efficiency of CoO-Na₂O-B₂O₃ glass system. *Radiation Physics and Chemistry*, 225, 112142. <https://doi.org/10.1016/j.radphyschem.2024.112142>
134. MM Abuzaid, HO Tekin, W Elshami, G Almisned, **A Ene**, HMH Zakaly, **Radiation dose assessment in multiple injured patients using whole-body computed tomography**, *Journal of Radiation Research and Applied Sciences* 15 (4), 100465, 2022 (6) <https://doi.org/10.1016/j.jrras.2022.100465> Web of Science
1. Eom, Y., Park, Y. J., Lee, S., Lee, S. J., An, Y. S., Park, B. N., & Yoon, J. K. (2024). Automated Measurement of Effective Radiation Dose by 18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography. *Tomography*, 10(12), 151. <https://doi.org/10.3390/tomography10120151> Web of Science

136. A Sion, S Gosav, A Ene, **ATR-FTIR qualitative mineralogical analysis of playground soils from Galati city, SE Romania**, Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, Fizica, Mecanica Teoretica, 2020 (6) <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.10>

Web of Science

1. Landlin, G., & Bhuvaneshwari, S. (2024). Multiscale analysis of traditional and non-traditional additive amended expansive soil-A comparative evaluation. *Engineering Geology*, 334, 107527. <https://doi.org/10.1016/j.enggeo.2024.107527>

137. A Ene, MA Vasile, G Bahrim, **Study of microbiological contamination level of surface water in MONITOX network areas before and after COVID-19 pandemic**, Annals of the University Dunarea de Jos of Galati: Fascicle II, Mathematics , Physics, Theoretical Mechanics, 2020 (6)

1. Banciu, A. R., Pascu, L. F., Radulescu, D. M., Stoica, C., Gheorghe, S., Lucaciu, I., Ciubotaru, V. F., Novac, L., Manea, C. & Nita-Lazar, M. (2024). The COVID-19 Pandemic Impact of Hospital Wastewater on Aquatic Systems in Bucharest. *Water*, 16(2), 245. <https://doi.org/10.3390/w16020245>

141. MM Obiedallah, MA Mironov, DV Belyaev, A Ene, DV Vakhrusheva, Svetlana Yu Krasnoborova, Sergey Y Bershtsky, Daniil V Shchepkin, Artem S Minin, Rashida I Ishmetova, Nina K Ignatenko, Svetlana G Tolshchina, Olga V Fedorova, Gennady L Rusinov, **Optimization, characterization, and cytotoxicity studies of novel anti-tubercular agent-loaded liposomal vesicles**, *Scientific Reports* 14 (2), 524, 2024 (5) <https://doi.org/10.1038/s41598-023-49576-2>

Web of Science

1. Casula, L., Craparo, E. F., Lai, E., Scialabba, C., Valenti, D., Schlich, M., Chiara Sinico, Gennara Cavallaro & Lai, F. (2024). Encapsulation of Nanocrystals in Mannitol-Based Inhalable Microparticles via Spray-Drying: A Promising Strategy for Lung Delivery of Curcumin. *Pharmaceuticals*, 17(12), 1708. <https://doi.org/10.3390/ph17121708> **Web of Science**
2. Shinde, A., Panchal, K., Patra, P., Singh, S., Enakolla, S., Paliwal, R., & Chaurasiya, A. (2024). QbD Enabled Development and Evaluation of Pazopanib Loaded Nanoliposomes for PDAC Treatment. *AAPS PharmSciTech*, 25(5), 97. <https://doi.org/10.1208/s12249-024-02806-w> **Web of Science**
3. Obiedallah, M. M., Melekhin, V. V., Menzorova, Y. A., Bulya, E. T., Minin, A. S., & Mironov, M. A. (2024). Fucoidan Coated Liposomes Loaded with Novel Antituberculosis Agent: Preparation, Evaluation, and Cytotoxicity Study. *Pharmaceutical Development and Technology*, 29(4), 311-32. <https://doi.org/10.1080/10837450.2024.2332454>
4. Yadav, R., Tiwari, C., Kumar, V., Pandey, A., Kondel, R., & Shafiq, N. (2024). Sustained Delivery of Rifampicin Nanoformulation Administration Intravitreally Into Rabbit Eyes for Ocular Tuberculosis. *Cureus*, 16(7). doi: [10.7759/cureus.65368](https://doi.org/10.7759/cureus.65368)

142. NAM Alsaif, DS Baykal, W Elshami, HMH Zakaly, SAM Issa, A Ene, YS Rammah, **On tungsten barium phosphate glasses: Elastic moduli, gamma-ray shielding properties as well as transmission factor (TF)**, *Journal of the Australian Ceramic Society*, 1-15, 2023 (5) <https://doi.org/10.1007/s41779-023-00900-z>

Web of Science

1. Kurtulus, R. (2024). Recent developments in radiation shielding glass studies: A mini-review on various glass types. *Radiation Physics and Chemistry*, volume 220, 111701. <https://doi.org/10.1016/j.radphyschem.2024.111701>
2. Aloraini, D. A., Ashour, A., & Shaaban, K. S. (2024). Effect of various Na₂O-MoO₃ concentrations on the thermal, mechanical, and radiation-resisting attributes of zinc-borosilicate glasses. *Silicon*, 16(4), 1837-1846. <https://doi.org/10.1007/s12633-023-02804-w>
3. Abouhaswa, A. S., Perișanoğlu, U., Araz, A., Ahmadi, N., Urtekin, E., & Perișanoğlu, E. K. (2024). Impact of Neodymium Oxide (Nd₂O₃) Substitution in Barium-Boron-Phosphate Glasses: A Pathway to Superior Mechanical, Optical, and Radiation Shielding Performance. *Ceramics International*, Volume 50, Issue 17, Part A, Pages 29459-29467. <https://doi.org/10.1016/j.ceramint.2024.05.240>
4. Al-Ghamdi, H., Alsaif, N. A., Khattari, Z. Y., Shaaban, S. M., El-Refaey, A. M., Elsad, R. A., M.S., Shams, Y.S., Rammah & Sadeq, M. S. (2024). Linear/nonlinear opto-gamma radiation attenuation hallmarks of high-density lead barium-borate glass blocks containing iron oxide additives. *Journal of Materials Science: Materials in Electronics*, 35(1), 70. <https://doi.org/10.1007/s10854-023-11751-6>
5. ALMisned, G., Sen Baykal, D., Elshami, W., Susoy, G., Kilic, G., & Tekin, H. O. (2024). A comparative analysis of shielding effectiveness in glass and concrete containers. *Open Physics*, 22(1), 20240019. <https://doi.org/10.1515/phys-2024-0019>

143. NAM Alsaif, ZY Khattari, HMH Zakaly, YS Rammah, A Ene, MS Al-Buriali, **Mechanic-elastic properties and radiation attenuation efficiency of TeO₂/WO₃/K₂O composite glass systems for nuclear and medical application**, *Heliyon* 9 (8), e18912, 2023 (5) <https://doi.org/10.1016/j.heliyon.2023.e18912>

Web of Science

1. Almousa, N., Malidarreh, R. B., Issa, S. A. M., & Zakaly, H. M. (2024). Synergistic effects of Gd₂O₃ and SiO₂ in enhancing the acoustic, mechanical, and shielding qualities of borate glasses. *Radiation Physics and Chemistry*, 224, 112060. <https://doi.org/10.1016/j.radphyschem.2024.112060>
2. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammari & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
3. Sriwongsu, K., Ravangvong, S., Glumglomchit, P., Kaewjaeng, S., Intachai, N., Kothan, S., C. Mutuwong & Kaewkhai, J. (2024). The investigation of physical, optical, X/gamma-rays and thermal neutron shielding properties using experimental, simulation, and theoretical for BaO-based glass system. *Radiation Physics and Chemistry*, 222, 111841. <https://doi.org/10.1016/j.radphyschem.2024.111841> **Web of Science**

144. AA El Aal, G Abdullah, HMH Zakaly, HA Awad, AE Omar, MAH Sakr, **Antoaneta Ene, Geotechnical aspects of alluvial soils at different depths under sodium chloride action in Najran region, Saudi Arabia: Field supported by laboratory tests**, *Frontiers in Environmental Science* 11, 331, 2023. (5) <https://doi.org/10.3389/fenvs.2023.1073718>

Web of Science

1. Saad, A. M., Sakr, M. A., Selim, M. S. A., Taalab, S. A., Zakaly, H. M., Aboueldahab, S. M., Ali E. Omar, Mahmoud Zayed, S. A. M. Issa & Awad, H. A. (2024). Geotechnical and geophysical investigations for infrastructure safety zones: a case study of the supporting ring road, Cairo, Egypt. *Scientific Reports*, 14(1), 29670. <https://doi.org/10.1038/s41598-024-72337-8>

145. G Almisned, DS Baykal, G Kilic, E Ilik, E Rabaa, G Susoy, HMH Zakaly, **Antoaneta Ene, HO Tekin, Comparative analysis on application conditions of indium (III) oxide-reinforced glasses in nuclear waste management and source transportation: A Monte Carlo simulation study**, *Heliyon* 9 (3), e14274 (2023) (5) <https://doi.org/10.1016/j.heliyon.2023.e14274>

Web of Science

1. Saraswat, K., Pal, S. K., Khattari, Z. Y., Dahshan, A., & Mehta, N. (2024). Radiation shielding competence of SeTeSnIn chalcogenide glassy system: resistance against gamma irradiation. *Physica Scripta*, 99(8), 085998. DOI 10.1088/1402-4896/ad63e3 **Web of Science**

2. Sen Baykal, D. (2024). A comparative investigation of neutron and gamma radiation interaction properties of zircaloy-2 and zircaloy-4 with consideration of mechanical properties. *Open Physics*, 22(1), 20240088. <https://doi.org/10.1515/phys-2024-0088> Web of Science
3. Zakaly, H. M., Hashim, H., Issa, S. A., Darwish, M. A., Obiedallah, F. M., Koubisy, M. S. I., & Saudi, H. A. (2024). Eco-friendly repurposing of by-pass waste for optics and radiation protection: addressing hazardous material challenges. *Materials Advances*, 5 (22) , pp.8864-8877 <https://doi.org/10.1039/d3ma01062g>
146. O Elmas, HHK Sahin, B Guven, MM Abuzaid, W Elshami, G ALMisned, Hesham MH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, **A focusing study on radioprotective and antioxidant effects of Annona muricata leaf extract in the circulation and liver tissue: Clinical and experimental studies**, Open Chemistry 20 (1), 920-928, 2022 (5) <https://doi.org/10.1515/chem-2022-0206>
Web of Science
1. Abulyazied, D. E., Issa, S. A., Saudi, H. A., Abomostafa, H. M., & Zakaly, H. M. (2024). Dysprosium-Enriched Polymer Nanocomposites: Assessing Radiation Shielding and Optical Properties. *Optical Materials*, 153, 115604. <https://doi.org/10.1016/j.optmat.2024.115604>
147. SAM Issa, G ALMisned, HO Tekin, HMH Zakaly, A Ene, YS Rammah, **Comprehensive evaluation on gamma radiation resistance of chromium (III) ions incorporated bismuth fluoro-lead-borate glasses**, Optik 268, 169809, 2022 (5) <https://doi.org/10.1016/j.jleo.2022.169809>
Web of Science
1. Almousa, N., Issa, S. A., Tekin, H. O., Rammah, Y. S., Mostafa, A. M. A., Baykal, D. S., K. Alshammary & Zakaly, H. M. (2024). Enhancing radiation shielding transmission factors and mechanical Robustness of borosilicate glasses through Bi₂O₃ modification: A comprehensive study. *Radiation Physics and Chemistry*, volume 220, 111683. <https://doi.org/10.1016/j.radphyschem.2024.111683>
 2. Chandra Sekhar, K., Saddeek, Y. B., Aly, K. A., Laxman Naik, J., Albedah, M. A., Hanafy, H., & Shareefuddin, M. (2024). An in-depth analysis of the optical and radiation shielding characteristics of PbF₂-MoO₃-Bi₂O₃-B₂O₃ glasses. *Physica Scripta*, volume 99, number 9. DOI 10.1088/1402-4896/ad6ecb
 3. Sekhar, K. C., Saddeek, Y. B., Aly, K. A., Naik, J. L., Albedah, M. A., Hanafy, H., & Shareefuddin, M. (2024). An in-depth analysis of the optical and radiation shielding characteristics of PbF₂-MoO₃-Bi₂O₃-B₂O₃ glasses. *Physica Scripta*, 99(9), 095978.
152. G ALMisned, YS Rammah, HMH Zakaly, DS Baykal, SAM Issa, A Ene, HO Tekin, **Sodium metaphosphate-tungsten trioxide glasses: a characterization study on gamma-ray shielding properties and transmission factors (TFs)**, Journal of the Australian Ceramic Society, 1-13, 2023, (4) <https://doi.org/10.1007/s41779-023-00980-x>
Web of Science
1. ALMisned, G., Baykal, D. S., Alkarrani, H., Kilic, G., Zakaly, H. M., Issa, S. A., & Tekin, H. O. (2024). Mechanical and, photon transmission properties of rare earth element (REE) doped BaO-B₂O₃-Li₂O-Al₂O₃-P₂O₅ glasses for protection applications. *Journal of Radiation Research and Applied Sciences*, 17(3), 101041. <https://doi.org/10.1016/j.jrras.2024.101041> Web of Science
 2. Aygun, M. (2024). Gamma-ray, fast neutron and charged particle shielding performance of 15Li₂O-25BaO-(40-x) B₂O₃-20P₂O₅-x Dy₂O₃ glass system. *Radiation Physics and Chemistry*, 219, 111671. <https://doi.org/10.1016/j.radphyschem.2024.111671> Web of Science
 3. Kurtulus, R., Kavaz, E., Kavas, T., ALMisned, G., Perisanoglu, U., & Tekin, H. O. (2024). Synthesis, structural, optical and experimental gamma-ray shielding properties of molybdenum-trioxide reinforced CRT glasses. *Journal of the Australian Ceramic Society*, 60, 1103-1119. <https://doi.org/10.1007/s41779-024-01016-8> Web of Science
153. A Kavaz Yüksel, HMH Zakaly, A Ene, **Evaluation of Photon Interaction Parameters of Some Antioxidants for Food Irradiation Applications**, Materials 15 (18), 6376. 2022 (4) <https://doi.org/10.3390/ma15186376>
Web of Science
1. Abulyazied, D. E., Issa, S. A., Saudi, H. A., Abomostafa, H. M., & Zakaly, H. M. (2024). Dysprosium-Enriched Polymer Nanocomposites: Assessing Radiation Shielding and Optical Properties. *Optical Materials*, 153, 115604. <https://doi.org/10.1016/j.optmat.2024.115604>
155. S Mitkidou, N Kokkinos, E Emmanouilidou, Y Yohannah, T Spanos, , Christina Chatzichristou, Antoaneta Ene, **Investigation of Petroleum Hydrocarbon Fingerprints of Water and Sediment Samples of the Nestos River Estuary in Northern Greece**, Applied Sciences 12 (3), 1636, 2022 (4) <https://doi.org/10.3390/app12031636>
Web of Science
1. Mousavi, S. A. H. S., & Dehaghani, A. H. S. (2024). Catalytic pyrolysis of plastic waste to gasoline, jet fuel and diesel with nano MOF derived-loaded Y zeolite: Evaluation of temperature, zeolite crystallization and catalyst loading effects. *Energy Conversion and Management*, 299, 117825. <https://doi.org/10.1016/j.enconman.2023.117825>
 2. Duarte, H., Aliaño-González, M. J., Romano, A., & Medronho, B. (2024). Advancements in Detection and Mitigation Strategies for Petroleum-Derived Contaminants in Aquatic Environments: A Comprehensive Review. *Sensors*, 24(11), 3284. <https://doi.org/10.3390/s24113284>
156. HO Tekin, G ALMisned, YS Rammah, G Susoy, FT Ali, D Sen Baykal, **Corrigendum to “Mechanical properties, elastic moduli, transmission factors, and gamma-ray-shielding performances of Bi₂O₃-P₂O₅-B₂O₃-V₂O₅ quaternary glass system”**, Open Chemistry 20, 679, 2022 (3) <https://doi.org/10.1515/chem-2022-0555>
Web of Science
1. Mwakuna, A. E., Laxmikanth, C., & Manepalli, R. K. N. R. (2024). Effect of Replacing B₂O₃ with CuO on the Structural, Optical Absorption, Thermal, Mechanical, and Gamma-Ray Shielding Properties of B₂O₃-Bi₂O₃-K₂O Glass. *Optical Materials*, 157, part 2, 116282. <https://doi.org/10.1016/j.optmat.2024.116282>
159. SA Taalab, HMH Zakaly, A Alrowaily, H Awad, NS Abed, SAM Issa, Amira M Eltohamy, Antoaneta Ene, **Notable changes in geochemical and mineralogical characteristics of different phases of episyenitization: Insights on the radioactive and shielding of the late phase**, Frontiers in Earth Science 11, 1241975, 2023 (3) <https://doi.org/10.3389/feart.2023.1241975>
Web of Science
1. Seif, R. A., Ene, A., Zakaly, H. M., Sallam, A. M., Taalab, S. A., Fnais, M. S., Diaa A. Saadawi, Shaimaa A. Amer & Awad, H. A. (2024). Distribution of Heavy Metals along the Mediterranean Shoreline from Baltim to El-Burullus (Egypt): Consequences for Possible Contamination. *Minerals*, 14(9), 931. <https://doi.org/10.3390/min14090931>

2. Khattab, M. R., Mohamed, W. H., Shetaia, S. A., Ahmed, M. S., Taalab, S. A., Saadawi, D. A., Ahmed K. Sakr, Mayeen Uddin Khandaker, A.Sh.M. Elshoukrof & Hanfi, M. Y. (2024). Radiological, environmental, and structural investigations of Wadi El Markh granitic rocks, southeastern desert, Egypt. *Nuclear Engineering and Technology*, 56(11), pages 4522-4530. <https://doi.org/10.1016/j.net.2024.06.015>
160. MA Rashwan, ESR Lasheen, W Abdelwahab, MK Azer, HMH Zakaly, Saad S Alarifi, **Antoaneta Ene**, Ismail A Thabet, **Physico-mechanical properties and shielding efficiency in relation to mineralogical and geochemical compositions of Um Had granitoid, Central Eastern Desert, Egypt**, *Frontiers in Earth Science* 11, 1228489, 2023 (3) <https://doi.org/10.3389/feart.2023.1228489>
Web of Science
1. Lasheen, E. S. R., Sami, M., Hegazy, A. A., Arman, H., Sanislav, I. V., Ahmed, M. S., & Rashwan, M. A. (2024). Petrological Characteristics and Physico-Mechanical Properties of Dokhan Volcanics for Decorative Stones and Building Material Applications. *Buildings*, 14(11), 3418. <https://doi.org/10.3390/buildings14113418>
2. El Saeed, R. L., Elyaseer, M. H., Mohamed, W. H., Azer, M. K., Rashwan, M. A., & Thabet, I. A. (2024). Economic feasibility of Gabal Um Takha leucogranitic intrusion, South Sinai, Egypt: Integrated remote sensing, geochemical, aeromagnetic, and geotechnical approach. *Physics and Chemistry of the Earth, Parts A/B/C*, volume133, 2024, 103531. <https://doi.org/10.1016/j.pce.2023.103531>
161. G ALMisned, ZY Khattari, E Rabaa, YS Rammah, D Sen Baykal, G Kilic, Hesham MH Zakaly, **Antoaneta Ene**, Huseyin Ozan Tekin, **Tailoring a symmetry for material properties of tellurite glasses through tungsten(VI) oxide addition: Mechanical properties and gamma-ray transmissions properties**, *Applied Rheology* 33 (1), 20220151, 2023 (3) <https://doi.org/10.1515/arh-2022-0151>
Web of Science
1. Issa, S. A., Khandaker, M. U., Badawi, A., & Zakaly, H. M. (2024). Enhanced gamma-ray shielding capabilities of Bi-Se-Ge chalcogenide glasses: analytical and simulation insights. *Physica Scripta*, 99(9), 095308. DOI 10.1088/1402-4896/ad6c89
162. SA Taalab, AM Abdel-Rahman, H El-Awny, HA Awad, HMH Zakaly, Wael Fahmy, **Antoaneta Ene**, **Petrogenesis and Tectonic Evolution of Kab Amiri Ophiolites and Island-Arc Assemblages, Central Eastern Desert, Egypt: Petrological and Geochemical Constraints**, *Minerals* 13 (4), 528, 2023 (3) <https://doi.org/10.3390/min13040528>
Web of Science
1. Taalab, S. A., Hanfi, M. Y., Ahmed, M. S., Saadawi, D. A., Sakr, A. K., Khandaker, M. U., & Khattab, M. R. (2024). Geochemical evaluation and hazard indices due to radioactive minerals associated with granitic areas. *Nuclear Engineering and Technology*, 56(11), 4921-4928. <https://doi.org/10.1016/j.net.2024.08.027>
163. G ALMisned, E Rabaa, D Sen Baykal, E Kavaz, E Ilik, G Kilic, HMH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, **Mechanical properties, elastic moduli, and gamma ray attenuation competencies of some TeO₂-WO₃-GdF₃ glasses: Tailoring WO₃-GdF₃ substitution toward**, *Open Chemistry* 21 (1), 20220290, 2023 (3) <https://doi.org/10.1515/chem-2022-0290>
Web of Science
1. Li, S., Lv, C., Li, D., Yue, B., Ma, Q., Yang, Y., & Dong, X. (2024). Straightforward fabrication of luminescent-magnetic GdF3: Yb3+, Ho3+@ void@ SiO2 wire-in-tube structured nanofibers. *Ceramics International*, 50(22), 47192-47201. <https://doi.org/10.1016/j.ceramint.2024.09.068> **Web of Science**
164. L Coretchi, A Ene, S Virlan, M Gincu, A Ababii, A Capatina, A Overcenco, Valentin Sargu, **Children's Exposure to Radon in Schools and Kindergartens in the Republic of Moldova**, *Atmosphere* 14 (1), 11 2023 (3) <https://doi.org/10.3390/atmos14010011>
Web of Science
1. Machraoui, S., Labidi, S., & Azbouche, A. (2024). Assessment of radon levels in indoor workplaces in Tunisia and associated radiological risks. *International Journal of Environmental Analytical Chemistry*, 1-17. **Web of Science** <https://doi.org/10.1080/03067319.2024.2382371>
168. H Harmens, G Mills, F Hayes, K Sharps, M Frontasyeva, The participants of the ICP Vegetation, **Air pollution and vegetation: ICP Vegetation annual report 2014/2015**, NERC/Centre for Ecology & Hydrology, 2015. (3)
Web of Science
1. Lazo, P., Kane, S. S., Qarri, F., Allajbeu, S., & Bekteshi, L. (2024). 15 Years of Moss Biomonitoring for Air Quality Assessment in Albania. *Aerosol and Air Quality Research*, 24, 240011. <https://doi.org/10.4209/aaqr.240011>
170. RA Seif, A Ene, HMH Zakaly, AM Sallam, SA Taalab, MS Fnais, Diaa A Saadawi, Shaimaa A Amer, Hamdy A Awad, **Distribution of Heavy Metals along the Mediterranean Shoreline from Baltim to El-Burullus (Egypt): Consequences for Possible Contamination**, *Minerals* 14 (9), 931, 2024 (2) <https://doi.org/10.3390/min14090931>
Web of Science
1. Alharbi, T., El-Sorogy, A. S., Al-Katany, K., & Alhejji, S. S. (2024). Ecological Health Hazards and Multivariate Assessment of Contamination Sources of Potentially Toxic Elements from Al-Lith Coastal Sediments, Saudi Arabia. *Minerals*, 14(11), 1150. <https://doi.org/10.3390/min14111150>
2. AE Hamed, E. S., Uosif, M. M., Khalifa, M. M., Elgendi, A. R., Abbasi, A., Awad, H. A., **Antoaneta Ene** & Zakaly, H. M. (2024). The Heavy Metal Pollution Level and Risk Assessment in Marine Gastropods of Sediments of the Red Sea Coast. *Environmental Forensics*, 1-11. <https://doi.org/10.1080/15275922.2024.2431324>
173. LA Susam, A Yilmaz, G ALMisned, H Yilmaz Alan, G Ozturk, G Kilic, Bahar Tuysuz, Selin Ece Topuzlar, Baki Akkus, **Antoaneta Ene**, Huseyin Ozan Tekin, **Tailoring a Behavioral Symmetry on KERMA, Mass Stopping Power and Projected Range Parameters against Heavy-Charged Particles in Zinc-Tellurite Glasses for Nuclear Applications**, *Symmetry* 15 (6), 1201, 2023 (2) <https://doi.org/10.3390/sym15061201>
Web of Science
1. Alan, H. Y., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., Ilik, E., Sener Oktik, Baki Akkus, Ghada ALMisned & Tekin, H. O. (2024). KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses. *Radiation Physics and Chemistry*, 218, 111637. <https://doi.org/10.1016/j.radphyschem.2024.111637>
174. G ALMisned, W Elshami, E Rabaa, G Kilic, E Ilik, DS Baykal, A Ene, HO Tekin, **Toward the strengthening of radioprotection during mammography examinations through transparent glass screens: A benchmarking between experimental and Monte Carlo simulation studies.**, *Frontiers in public health* 11, 1171209, 2023 (2) doi.org/10.3389/fpubh.2023.1171209
Web of Science
1. Kurtulus, R. (2024). Recent developments in radiation shielding glass studies: A mini-review on various glass types. *Radiation Physics and Chemistry*, volume 220, 111701. <https://doi.org/10.1016/j.radphyschem.2024.111701>

2. Sen Baykal, D. (2024). A comparative investigation of neutron and gamma radiation interaction properties of zircaloy-2 and zircaloy-4 with consideration of mechanical properties. *Open Physics*, 22(1), 20240088. <https://doi.org/10.1515/phys-2024-0088>

175. G ALMisned, E Rabaa, D Sen Baykal, E Ilik, G Kilic, HMH Zakaly, A Ene, Huseyin Ozan Tekin., **Translocation of tungsten(vi) oxide/gadolinium(III) fluoride in tellurite glasses towards improvement of gamma-ray attenuation features in high-density glass shields.** *Open Chemistry* 21 (1), 20220289, 2023 (2) <https://doi.org/10.1515/chem-2022-0289>

Web of Science

1. Alan, H. Y., ALMisned, G., Yilmaz, A., Susam, L. A., Ozturk, G., Kilic, G., E. Ilik, Bahar Tuysuz, Selin Ece Topuzlar, Baki Akkus & Tekin, H. O. (2024). Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation. *Journal of the Australian Ceramic Society*, 60(3), 823-832. <https://doi.org/10.1007/s41779-023-00984-7>

176. G ALMisned, W Elshami, G Kilic, E Ilik, E Rabaa, HMH Zakaly, A Ene, Huseyin O Tekin, **Exploring the Radioprotective Indium (III) Oxide Screens for Mammography Scans Using a Three-Layer Heterogeneous Breast Phantom and MCNPX: A Comparative Study Using Clinical Findings.** *Medicina* 59 (2), 327 2023 (2) <https://doi.org/10.3390/medicina59020327>

Web of Science

1. Almansoori, A., Almisned, G., Baykal, D. S., Kilic, C. S., & Tekin, H. O. (2024). Energy deposition responses, transmission factors, and radiation interaction properties of some antibiotics: A critical assessment for substantial molecular alterations as a function of radiation exposure. *Radiation Physics and Chemistry*, 216, 111473. <https://doi.org/10.1016/j.radphyschem.2023.111473>
2. ALMisned, G., Guler, O., Baykal, D. S., Kilic, G., & Tekin, H. O. (2024). Titanium alloys as nuclear reactor materials: A closer-look at mechanical, gamma-ray, neutron, and transmission properties of different grade alloys through MCNPX code application. *Nuclear Engineering and Technology* 56(9), pages 3501-3511. <https://doi.org/10.1016/j.net.2024.03.047> Web of Science

177. NRJ Hynes, S Raja, R Tharmaraj, M Brykov, A Ene, **Investigation on Impact Strength of Friction Stud Welded AA6061-B4C Composite/AISI 1030 Steel Joints in Inert Gas Atmosphere.** *Processes* 10 (10), 2052, 2022 (2) <https://doi.org/10.3390/pr10102052>

Web of Science

1. Zhai, M., Shi, L., Song, H., Yin, J., Wu, C., & Zhao, W. (2024). Comparative numerical analysis between butt and lap joints of Mg alloy friction stir welding with considering tilted tool effect. *Journal of Manufacturing Processes*, 120, 951-965. <https://doi.org/10.1016/j.jmapro.2024.05.017>
2. Venkateswara Rao, R., & Marikkannan, S. K. (2024). Experimental Analysis and Weld Joint Characteristics Study on Friction Stir Welded Dissimilar Joints Fabricated by Novel Hybrid Pin Profiles. *Transactions of the Indian Institute of Metals*, 77(1), 95-103. <https://doi.org/10.1007/s12666-023-03042-9>

180 E Zubcov, A Ene, **Ecotoxicological methodological guide for environmental monitoring: problematics, laboratory techniques and health risk investigation.** 2021 (2)

Web of Science

1. Khosrovyan, A. (2024). Biodiversity and Ecosystem Services in Rivers. *Water*, 16(15), 2091.

187. SAM Issa, A Ene, HMH Zakaly, **Evaluating the Effectiveness of Tellurium-Molybdenum Oxide Glass Systems for Radiation Shielding Protection.** *Multidisciplinary Materials Chronicles* 1 (1), 19-29, 2024 (1) DOI: 10.62184/mmc.jmmc110020242

Web of Science

1. Irfan, M., Ahmed, E. M., Issa, S. A., & Zakaly, H. M. H. (2024). Investigation of the Optoelectronic, γ -Attenuation, and Thermodynamic Properties of Novel MnGa₂P₃H₄NO₁₄ for Energy Applications: A DFT Study. *International Journal of Quantum Chemistry*, 124(22), e27512. <https://doi.org/10.1002/qua.27512>

188. SÇ Karaçam, D Tunçman, G ALMisned, A Ene, HO Tekin, **Investigation of Radiochromic Film Use for Source Position Verification through a LINAC On-Board Imager (OBI).** *Medicina* 59 (3), 628, 2023 (1) <https://doi.org/10.3390/medicina59030628>

Web of Science

1. Hunt, B., Cutajar, D., Petasecca, M., Rosenfeld, A., Howie, A., Bucci, J., & Poder, J. (2024). HDR brachytherapy afterloader quality assurance optimization using monolithic silicon strip detectors, *Medical Physics*, 51(7) <https://doi.org/10.1002/mp.17240>

189. G ALMisned, W Elshami, G Kilic, E Rabaa, HMH Zakaly, A Ene, HO Tekin, **Utilization of three-layers heterogeneous mammographic phantom through MCNPX code for breast and chest radiation dose levels at different diagnostic X-ray energies: A Monte Carlo simulation study.** *Frontiers in Public Health* 11, 2023 (1) doi.org/10.3389/fpubh.2023.1136864

Web of Science

1. Almansoori, A., Almisned, G., Baykal, D. S., Kilic, C. S., & Tekin, H. O. Energy deposition responses, transmission factors, and radiation interaction properties of some antibiotics: A critical assessment for substantial molecular alterations as a function of radiation exposure. *Radiation Physics and Chemistry*, 2024, volume 216, 111473. <https://doi.org/10.1016/j.radphyschem.2023.111473>

192. O Tekin, F ALMisned, TT Erguzel, MM Abuzaid, W Elshami, A Ene, Hesham MH Zakaly, **Prediction of Dose Length Product for chest CT Examinations using Artificial Neural Networks (ANN).** 2022 (1) <https://doi.org/10.21203/rs.3.rs-1434646/v1>

Web of Science

1. AlShurbaji, M., El Haout, S., Chanchal, A., Dhou, S., & Dalah, E. (2024). Investigating the Effect of Patient-Related Factors on Computed Tomography Radiation Dose Using Regression and Correlation Analysis. *Applied Sciences*, 14(3), 1071. <https://doi.org/10.3390/app14031071>

193. G ALMisned, HO Tekin, SAM Issa, MÇ Ersundu, AE Ersundu, G Kilic, HMH Zakaly, A Ene, **Novel HMO-Glasses with Sb₂O₃ and TeO₂ for Nuclear Radiation Shielding Purposes: A Comparative Analysis with Traditional and Novel Shields.** *Materials* 2021, 14, 4330, 2021 (1) <https://doi.org/10.3390/ma14154330>

Web of Science

1. Almousa, N., Issa, S. A., Saudi, H. A., Rammah, Y. S., Mostafa, A. M. A., Ene, A., M. A. Saif & Zakaly, H. M. (2024). Gamma-ray shielding evaluation of highly-dense PBSCCx-glasses: experimental and simulation study. *Optical and Quantum Electronics*, 56(7), 1125. <https://doi.org/10.1007/s11082-024-06889-4>

1. Articol citat: Ene, A., Bogdevich O., **Sion A.**, Levels and distribution of organochlorine pesticides (OCPs) and polycyclic aromatic hydrocarbons (PAHs) in topsoils from SE Romania, 439,(2012), 76-86. Science of the Total Environment <https://doi.org/10.1016/j.scitotenv.2012.09.004>

Articol care citeaza:

1. ENE, A., MORARU, D. I., PINTILIE, V., ITICESCU, C., & GEORGESCU, L. P. (2024). METALS AND NATURAL RADIOACTIVITY INVESTIGATION OF DANUBE RIVER WATER IN THE LOWER SECTOR. *Romanian Journal of Physics*, 69, 802.

2. Articol citat: Sion, A., Gosav, S., Ene, A. (2020). ATR-FTIR qualitative mineralogical analysis of playground soils from Galati city, SE Romania. *Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, fizică, mecanică teoretică/Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 43(2), 141-146.

Articol care citeaza:

1. Ene, A., Moraru, S. S., Moraru, D. I., Pantelica, A., Gosav, S., & Ceoromila, A. M. (2024). Major and Trace Element Accumulation in Soils and Crops (Wheat, Corn, Sunflower) around Steel Industry in the Lower Danube Basin and Associated Ecological and Health Risks. *Applied Sciences*, 14(13), 5616.

3. Articol citat: Ene, A., Sloata, F., Frontasyeva, M. V., Dului, O. G., Sion, A., Gosav, S., & Persa, D. (2024). Multi-Elemental Characterization of Soils in the Vicinity of Siderurgical Industry: Levels, Depth Migration and Toxic Risk. *Minerals*, 14(6), 559.

Articol care citeaza:

1. Ene, A., Moraru, S. S., Moraru, D. I., Pantelica, A., Gosav, S., & Ceoromila, A. M. (2024). Major and Trace Element Accumulation in Soils and Crops (Wheat, Corn, Sunflower) around Steel Industry in the Lower Danube Basin and Associated Ecological and Health Risks. *Applied Sciences*, 14(13), 5616.
2. Seif, R. A., Ene, A., Zakaly, H. M., Sallam, A. M., Taalab, S. A., Fnais, M. S., ... & Awad, H. A. (2024). Distribution of Heavy Metals along the Mediterranean Shoreline from Baltim to El-Burullus (Egypt): Consequences for Possible Contamination. *Minerals*, 14(9), 931.

4. Articol citat: Ene, A., Pantelică, A., Freitas, C., & Boșneagă, A. (2011). EDXRF and INAA analysis of soils in the vicinity of a metallurgical plant. *Rom. Journ. Phys*, 56(7-8), 993-1000.

Articol care citeaza:

1. ENE, A., MORARU, D. I., PINTILIE, V., ITICESCU, C., GEORGESCU, L. P. (2024). METALS AND NATURAL RADIOACTIVITY INVESTIGATION OF DANUBE RIVER WATER IN THE LOWER SECTOR. *Romanian Journal of Physics*, 69, 802.

CITARI suplimentare CEOROMILA ALINA 2024 = 10

1. Cotărleț, Mihaela, Aida Mihaela Vasile, **Alina Mihaela Cantaragiu**, Alexandra Gaspar-Pintilieșcu, Oana Crăciunescu, Anca Oancea, Angela Moraru, Ionuț Moraru, Gabriela Elena Bahrim (2019) Colostrum-derived bioactive peptides obtained by fermentation with kefir grains enriched with selected yeasts, The Annals of the University Dunarea De Jos of Galati. Fascicle VI - Food Technology, 43(1), 54-68. WOS:000477984200004. <https://doi.org/https://doi.org/10.35219/foodtechnology.2019.1.04>

Articolul care citează:

1. Jeong, S; Jung, JH; Jung, KW; Ryu, S; Lim, S (2024) From microbes to molecules: a review of microbial-driven antioxidant peptide generation. World Journal of Microbiology & Biotechnology, 40(1), 29, WOS:001115493200009. <https://doi.org/10.1007/s11274-023-03826-7>
2. Tanvir Ahmed, Angéla Juhász, Utpal Bose, Netsanet Shiferaw Terefe, Michelle L. Colgrave (2024) Research trends in production, separation, and identification of bioactive peptides from fungi – A critical review. Journal of Functional Foods, 119, 106343, ISSN 1756-4646. WOS:001268548900001. <https://doi.org/10.1016/j.jff.2024.106343>
3. Pihurov M, Cotărleț M, Elena Bahrim G. (2024) The Promotion of Biotication in Controlled Fermentation Using Kefir Grains and Kombucha Membranes as Starter Cultures. Probiotics, Prebiotics, and Postbiotics in Human Health and Sustainable Food Systems, IntechOpen. <http://dx.doi.org/10.5772/intechopen.1007044>

2. Cotet, A.; Bastiurea, M.; Andrei, G.; Cantaragiу, A.; Hadar, A. Mechanical and Thermal Behavior of Carbon Nanotubes/Vinyl Ester Nanocomposites. Mater. Plast. 2019, 56, 735–743. WOS:000509920700011

Articolul care citează:

1. Ursache, Ștefania, Camelia Cerbu, and Anton Hadăr (2024) Characteristics of Carbon and Kevlar Fibres, Their Composites and Structural Applications in Civil Engineering—A Review. Polymers, 16(1), 127, WOS:001140693300001. <https://doi.org/10.3390/polym16010127>

3. Cotet, A.; Bastiurea, M.; Andrei, G.; **Cantaragiу, A.**; Hadar, A. Dry Sliding Friction Analysis and Wear Behavior of Carbon Nanotubes/Vinylester Nanocomposites, Using Pin-on-Disc Test. Revista de Chimie, 2019, 70, 3592–3596, WOS:000500795900030.

Articolul care citează:

1. Ursache, Ștefania, Camelia Cerbu, and Anton Hadăr (2024) Characteristics of Carbon and Kevlar Fibres, Their Composites and Structural Applications in Civil Engineering—A Review. Polymers, 16(1), 127, WOS:001140693300001. <https://doi.org/10.3390/polym16010127>

4. Buruiana Daniela Laura, Herbei Elena Emanuela, **Ceormila Alina Mihaela**, Busila Mariana, Trus Constantin, Bogatu Nicoleta (Simionescu), Ghisman Viorica (2021) Investigation of Corrosion of A and E36 Naval Steels Using Potentiodynamic Polarization and Modified Prohesion Test. International Journal of Electrochemical Science, 16(11), Article number 21111, WOS:000718320200005. doi: 10.20964/2021.11.37

1. Ju, HM; Liu, J; Zhuo, SW; Wang, YL; Li, SL (2023) Effect of Thermal Aging on the Microstructure and Mechanical Properties of ER308L/Z2CND18.12N2 Dissimilar Welds. Materials, 16(22), Article Number 7119, WOS:001122704500001, DOI10.3390/ma16227119
2. Qin, JX; Cao, YP; Shi, WD; Wang, ZA; Qiu, M (2023) Laser Shock Peening Improves the Corrosion Resistance of an E690 High-Strength Steel Cladding Layer. Materials, 16(16), Article Number 5566, WOS:001057173200001. DOI10.3390/ma16165566
3. Dorneles, M.T., de Castro, V.V., dos Santos, A.G., Aguzzoli, C., de Andrade, A.M.H., Moreira Schroeder, R., de Fraga Malfatti, C. 2024. Tribological and corrosion behavior of PEO coatings on AA 2024-T3 aluminum alloy obtained with optimized electrical parameters under low current densities. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 46(8), 479. WOS:001257495800001. <https://doi.org/10.1007/s40430-024-05024-4>

5. G. Coman, G. B. Carp, I. Ion, **A. Ceormila**, N. Baroiu (2019) Composite Materials Based on Autoclaved Aerated Concrete Waste and Unsaturated Polyester Resin, MATERIALE PLASTICE, ISSN 0025-5289, 56(1), pp. 256-260, WOS:000464604100051. <http://www.revmaterialeplastice.ro/pdf/51%20COMAN%20G%201%2019.pdf>

Articolul care citează (nu a fost raportat în FA pe 2023):

1. Mollaei, S; Fahmi, A; Jahani, D; Golsefidy, ZB; Babaei, R; Hanafi, MR (2023) A Predictive Model for the Strength of a Novel Geopolymer Construction Material Produced by Autoclaved Aerated Concrete Waste. International Journal of Sustainable Construction Engineering And Technology, 14(1), 148-167, WOS:000934597100014. DOI10.30880/ijscet.2023.14.01.015

6. Gurau, C.; Tolea, F.; Cimpoesu, N.; Sofronie, M.; **Cantaragiu Ceoromila, A.**; Stefanescu, C.; Gurau, G. (2024) Magnetic Shape Memory Nanocomposites Assembled with High Speed High Pressure Torsion. *Nanomaterials*, 14(5), 405. IF: 4,4 (în anul 2023). WOS:001182937000001. DOI:10.3390/nano14050405

Articolul care citează:

1. Kaveh Edalati, Anwar Q. Ahmed, Saeid Akrami, Kei Ameyama, Valery Aptukov, Rashid N. Asfandiyarov, Maki Ashida, Vasily Astanin, Andrea Bachmaier, Victor Beloshenko, Elena V. Bobruk, Krzysztof Bryla, José María Cabrera, Amanda P. Carvalho, Nguyen Q. Chinh, In-Chul Choi, Robert Chulist, Jorge M. Cubero-Sesin, Gregory Davdian, Muhammet Demirtas, Sergiy Divinski, Karsten Durst, Jiri Dvorak, Parisa Edalati, Satoshi Emura, Nariman A. Enikeev, Ghader Faraji, Roberto B. Figueiredo, Ricardo Floriano, Marjan Fouladvind, Daniel Fruchart, Masayoshi Fuji, Hiroshi Fujiwara, Marcell Gajdics, Diana Gheorghe, Łukasz Gondek, Joaquín E. González-Hernández, Alena Gornakova, Thierry Grosdidier, Jenő Gubicza, Dmitry Gunderov, Liqing He, Oscar Fabian Higuera, Shoichi Hirosawa, Anton Hohenwarter, Zenji Horita, Jelena Horky, Yi Huang, Jacques Huot, Yoshifumi Ikoma, Tatsumi Ishihara, Yulia Ivanisenko, Jae-il Jang, Alberto M. Jorge, Mie Kawabata-Ota, Megumi Kawasaki, Tarek Khelfa, Junya Kobayashi, Lembit Kommel, Anna Korneva, Petr Kral, Natalia Kudriashova, Shigeru Kuramoto, Terence G. Langdon, Dong-Hyun Lee, Valery I. Levitas, Cong Li, Hai-Wen Li, Yongtao Li, Zheng Li, Huai-Jun Lin, Klaus-Dieter Liss, Ying Liu, Diana Maritza Marulanda Cardona, Kenji Matsuda, Andrey Mazilkin, Yoji Mine, Hiroyuki Miyamoto, Suk-Chun Moon, Timo Müller, Jairo Alberto Muñoz, Maxim Yu. Murashkin, Muhammad Naeem, Marc Novelli, Dániel Olasz, Reinhard Pippa, Vladimir V. Popov, Elena N. Popova, Gencaga Purcek, Patricia de Rango, Oliver Renk, Delphine Retraint, Ádám Révész, Virginie Roche, Pablo Rodriguez-Calvillo, Liliana Romero-Resendiz, Xavier Sauvage, Takahiro Sawaguchi, Hadi Sena, Hamed Shahmir, Xiaobin Shi, Vaclav Sklenicka, Werner Skrotzki, Nataliya Skryabina, Franziska Staab, Boris Straumal, Zhidan Sun, Maciej Szczerba, Yoichi Takizawa, Yongpeng Tang, Ruslan Z. Valiev, Alina Vozniak, Bo Wang, Jing Tao Wang, Gerhard Wilde, Fan Zhang, Meng Zhang, Peng Zhang, Jianqiang Zhou, Xinkun Zhu, Yuntian T. Zhu. 2024. Severe plastic deformation for producing superfunctional ultrafine-grained and heterostructured materials: An interdisciplinary review. *Journal of Alloys and Compounds*, 1002, 174667, ISSN 0925-8388. WOS:001288846400001. <https://doi.org/10.1016/j.jallcom.2024.174667>

CITARI suplimentare GOSAV S. 2024 = 10

1. Fanica Balanescu, Anna Cazanevscaia Busuioc, Andreea Veronica Dediu Botezatu, **Steluta Gosav**, Sorin Marius Avramescu, Bianca Furdui and Rodica Mihaela Dinica, Comparative Study of Natural Antioxidants from Glycine max, Anethum graveolens and Pimpinella anisum Seed and Sprout Extracts Obtained by Ultrasound-Assisted Extraction, *Separations* 9, 152, 2022

Citata in:

1. Kavya, N., Krithika, S., Subikshaa, V.S. et al. Evaluation of antioxidant, anti-inflammatory and antibacterial properties of protein extract isolated from Vigna trilobata. *Food Measure* 18, 6331–6341 (2024). <https://doi.org/10.1007/s11694-024-02651-2>, IF = 2,9
2. Karthika, A.M., Thomas, T. & Augustine, C. Computational studies on a selection of phosphite esters as antioxidants for polymeric materials. *J Mol Model* 30, 244 (2024). <https://doi.org/10.1007/s00894-024-06045-5> IF = 2,1
3. Wang Y, Li C, Li Z, Moalin M, Hartog GJMD, Zhang M. Computational Chemistry Strategies to Investigate the Antioxidant Activity of Flavonoids—An Overview. *Molecules*. 2024; 29(11):2627. <https://doi.org/10.3390/molecules29112627> IF = 4,2
4. Kumar K. B. Vijendra , Varadaraju Kavitha Raj , Shivaramu Prasanna D. , Kumar C. M. Hemanth , Prakruthi H. R. , Shekara B. M. Chandra , Shreevatsa Bhargav , Wani Tanveer A. , Prakasha K. C. , Kollur Shiva Prasad , Shivamallu Chandan, Bactericidal, anti-hemolytic, and anticancerous activities of phytofabricated silver nanoparticles of glycine max seeds, *Frontiers in Chemistry*, Vol. 12, 2024. Impact factor 3,8
<https://www.frontiersin.org/journals/chemistry/articles/10.3389/fchem.2024.1427797>
10.3389/fchem.2024.1427797 ISSN=2296-2646
5. Mirzapour-Kouhdasht A, Shaghaghian S, Majdinasab M, Huang J-Y, Garcia-Vaquero M. Unravelling the Digestibility and Structure–Function Relationship of Lentil Protein Through Germination and Molecular Weight Fractionation. *Foods*. 2025; 14(2):272. Impact factor 4,7 <https://doi.org/10.3390/foods14020272>

2. Dorohoi, D.O.; **Gosav, S.**; Moroșanu, A.C.; Dimitriu, D.G.; Apreutesei, G.; Gosav, T. Molecular Descriptors—Spectral Property Relations for Characterizing Molecular Interactions in Binary and Ternary Solutions, Excited State Dipole Moment Estimation. *Symmetry* **2023**, *15*(11), 2075. Impact Factor: 2,7 (2022) WOS:001119933100001 <https://doi.org/10.3390/sym15112075>
Citata in:

1. Mihaela Iuliana Avadanei, Dana Ortansa Dorohoi, Comparative Study of Two Spectral Methods for Estimating the Excited State Dipole Moment of Non-Fluorescent Molecules, *Molecules*. **2024** Jul 17;29(14):3358. doi: 10.3390/molecules29143358. IF = 4,2
2. Avădănei MI, Grițco-Todirașcu A, Dorohoi DO. Negative Solvatochromism of the Intramolecular Charge Transfer Band in Two Structurally Related Pyridazinium—Ylids. *Symmetry*. **2024**; 16(11):1531. <https://doi.org/10.3390/sym16111531> IF = 2,7

3. Catalina Mercedes Burlacu; **Steluta Gosav**; Bianca Andreea Burlacu; Mirela Praisler " Convolutional Neural Network Detecting Synthetic Cannabinoids, Proceedings of the 9th IEEE Conference on e-Health and Bioengineering (EHB 2021), 18-19 November 2021, Iasi, Romania. DOI: 10.1109/EHB52898.2021.9657725, WOS:000802227900185

Citata in:

1. Shi, S., Huang, Z., Gu, X. et al. From 2015 to 2023: How Machine Learning Aids Natural Product Analysis. *Chemistry Africa* (**2024**). <https://doi.org/10.1007/s42250-024-01154-3> IF = 2,3
4. A. Ion, **S. Gosav** and M. Praisler, "Artificial Neural Networks designed to identify NBOMe hallucinogens based on the most sensitive molecular descriptors," 2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Romania, 2019, pp. 1-6, doi: 10.1109/ISEEE48094.2019.9136101.

Citata in:

- Guzman-Pando, A., Ramirez-Alonso, G., Arzate-Quintana, C. et al. Deep learning algorithms applied to computational chemistry. *Mol Divers* **28**, 2375–2410 (**2024**). <https://doi.org/10.1007/s11030-023-10771-y>, Impact factor 3,8
5. .C. M. Burlacu, **S. Gosav**, B. A. Burlacu and M. Praisler, "Artificial Neural Networks Screening for JWH Synthetic Cannabinoids: a Comparative Analysis Regarding their Specificity and Accuracy," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991354.

Citata in :

1. Shi, S., Huang, Z., Gu, X. et al. From 2015 to 2023: How Machine Learning Aids Natural Product Analysis. *Chemistry Africa* (**2024**). <https://doi.org/10.1007/s42250-024-01154-3> IF = 2,3