

Список публикации за последние 5 лет

1. **Badawy** W, Elsenbawy A, Dmitriev A, El Samman H, Shcheglov A, El-Gamal A, Kamel NHM, Mekewi M (2022): Characterization of major and trace elements in coastal sediments along the Egyptian Mediterranean Sea. *Marine Pollution Bulletin* 177, 113526
2. **Badawy** W, Sarhan Y, Dului O, Frontasyeva M, El-Samman H, Hussein AA, Arafa W (2022): Heavy and Trace Elements Distribution in Plants and Soils of Urban and Rural Areas of Egypt: A Comparison. *New Prospects in Environmental Geosciences and Hydrogeosciences*. Springer International Publishing, Cham, pp. 191-193
3. **Badawy** W, Dului OG, Magdy M, Hadi QM, Serafima S (2023): X-ray fluorescence spectroscopy in the investigation of works of art, *Spectroscopic and Microscopy Techniques for Archaeological and Cultural Heritage Research (Second Edition)*. IOP Publishing, pp. 4-1-4-30
4. **Badawy** W, Silachyov I, Dmitriev A, Lennik S, Saleh G, Mitwalli M, El-Farrash A, Sallah M (2023): Elemental distribution patterns in rock samples from Egypt using neutron activation and complementary X-ray fluorescence analyses. *Applied Radiation and Isotopes* 202, 111063
5. **Badawy** WM, Dului OG, Frontasyeva MV, El-Samman H, Mamikhin SV (2020): Dataset of elemental compositions and pollution indices of soil and sediments: Nile River and delta -Egypt. *Data Brief* 28, 105009
6. **Badawy** WM, Dului OG, El Samman H, El-Taher A, Frontasyeva MV (2021): A review of major and trace elements in Nile River and Western Red Sea sediments: An approach of geochemistry, pollution, and associated hazards. *Appl Radiat Isot* 170, 109595
7. **Badawy** WM, Dmitriev AY, Koval VY, Smirnova VS, Chepurchenko OE, Lobachev VV, Belova MO, Galushko AM (2022): Formation of reference groups for archaeological pottery using neutron activation and multivariate statistical analyses. *Archaeometry* 64, 1377-1393
8. **Badawy** WM, Dului O, El-Taher A, Elsenbawy A, Dmitriev AY, El-Gamal A, Arafa W (2022): Datasets of trace elements in shallow marine sediments along the Egyptian shore of the Mediterranean and Red Seas. *Data in Brief* 42, 108217
9. **Badawy** WM, Sarhan Y, Dului OG, Kim J, Yushin N, Samman HE, Hussein AA, Frontasyeva M, Shcheglov A (2022): Monitoring of air pollutants using plants and co-located soil-Egypt: characteristics, pollution, and toxicity impact. *Environ Sci Pollut Res Int* 29, 21049-21066

10. **Badawy** WM, Dmitriev AY, Koval VY (2023): Geochemical ceramic composition dataset using neutron activation and statistical analyses. *Data in Brief* 48, 109051
11. **Badawy** WM, Mitwalli M, Dmitriev AY, Chepurchenko O, Saleh G, El-Farrash A, Bulavin M, Morsi T, Sallah M (2023e): Neutron Activation Analysis for Geochemical Characterization of Rocks from Gold Mines in Egypt. *Applied Sciences* 13, 4564
12. **Badawy** WM, Dmitriev AY, El Samman H, El-Taher A, Blokhin MG, Rammah YS, Madkour HA, Salama S, Budnitskiy SY (2024): Elemental composition and metal pollution in Egyptian Red Sea mangrove sediments: Characterization and origin. *Marine Pollution Bulletin* 198, 115830
13. **Badawy** WM, Silachyov I, Dmitriev A, Lennik S, Saleh G, Sallah M (2024): Nuclear and complementary analytical techniques for elemental analysis of granite rock samples. *Journal of Radioanalytical and Nuclear Chemistry*
14. Borzakov SB, Zhomartova AZ, Dmitriev AY, Koval VY, Hramco C, **Badawy** WM (2022): Prompt gamma activation analysis for determining the elemental composition of archaeological ceramics. *Appl Radiat Isot* 183, 110152
15. Bugubaeva A, Chashkov V, Mamikhin S, Kuprijanov A, Kuanyshbaev S, Nugmanov A, Bulaev A, Shcheglov A, Manakhov D, Zharlygasov Z, Isakaev Y, Uxikbayeva M, **Badawy** W, Joldassov A (2023): Assessment of the state of vegetation cover of recultivated dumps of uranium deposits in Northern Kazakhstan. *Brazilian Journal of Biology* 83
16. Chaligava O, Shetekauri S, **Badawy** WM, Frontasyeva MV, Zinicovscaia I, Shetekauri T, Kvlividze A, Vergel K, Yushin N (2021): Characterization of Trace Elements in Atmospheric Deposition Studied by Moss Biomonitoring in Georgia. *Arch Environ Contam Toxicol* 80, 350-367
17. El Abd A, Kismall es CSE, Taman M, Nazarov capital Ka CEMC, Kozlenko DP, **Badawy** WM (2020): Determination of moisture distributions in porous building bricks by neutron radiography. *Appl Radiat Isot* 156, 108970
18. Jegede OA, Olaoye MA, Olagbaju PO, Makinde V, **Badawy** WM (2023): Radiation risk assessment of quarry pit soil as construction material in Abeokuta, Nigeria: implications for environmental and public health. *Isotopes in Environmental and Health Studies*, 1-13
19. Kamanina IZ, **Badawy** WM, Kaplina SP, Makarov OA, Mamikhin SV (2023): Assessment of Soil Potentially Toxic Metal Pollution in Kolchugino Town, Russia: Characteristics and Pollution. *Land* 12, 439
20. Kovalchuk MV, Makarov NA, Yatsishina EB, Greshnikov EA, **Badawy** WM, Dmitriev AY, Dorovatovskii PV, Kashkarov PK, Lobachev VV, Olkhovskiy SV, Presnyakova NN,

- Svetogorov RD, Trunkin IN, Chepurchenko NN (2023): The Provenance Study of the Raw Materials of the Ancient Terracotta Found near the Crimean Bridge: Natural-Science Approach. *Crystallography Reports* 67, 1279-1291
21. Mamikhin S.V., **Badawy** W.M., Lipatov D.N., Manakhov D.V., Paramonova T.A., Stolbova V.V., A.I. S (2022): A Simulation Model of Hourly Dynamics of Organic-Matter Carbon in Ecogross Herbaceous Communities. *Moscow University Soil Science Bulletin* 77
 22. Mamikhin SV, **Badawy** WM, Lipatov DN, Manakhov DV, Paramonova TA, Stolbova VV, Shcheglov AI (2021): Simulation Model of ^{137}Cs Daily Dynamics in the Food Web of the Deciduous Forest Ecosystem. *Moscow University Soil Science Bulletin* 76, 70-77
 23. Mitwalli M, **Badawy** W, Yosef H, Salama S, Saleh G, El-Farrash AH (2022): Radon Measurement and Radiological Dose Assessment from Terrestrial Rocks Using Solid-State Nuclear Track Detectors. *Arab J Nucl Sci Appl*, 1-8
 24. Alsaif NAM, Ahmed MM, Al-Ghamdi H, El-Hamalawy AA, **Badawy** WM, Rammah YS, Ahmmad SK (2023): Fabrication, physical and machine learning density prediction techniques of newly $\text{B}_2\text{O}_3\text{-ZnO-BaO-PtO}_2$ glasses. *Optical Materials* 142, 113994
 25. Alsaif NAM, Al-Ghamdi H, El-Hamalawy AA, Sadeq MS, **Badawy** WM, Abouhaswa AS, Diab RS, Rammah YS (2023b): Fabrication, physical, optical, and gamma-ray attenuation properties of platinum-doped borate glasses: experimental and theoretical investigation. *Journal of Materials Science: Materials in Electronics* 34, 1326
 26. **Badawy** W, Frontasyeva MV, Ibrahim M (2020): Vertical Distribution of Major and Trace Elements in a Soil Profile from the Nile Delta, Egypt. *Ecological Chemistry and Engineering S-Chemia I Inzynieria Ekologiczna* S 27, 281-294
 27. Niedobová B, **Badawy** WM, Dmitriev AY, Jančík P, Chepurchenko OE, Bulavin MV, Belova MO (2022): Neutron Activation Analysis of PM_{10} for Air Quality of an Industrial Region in the Czech Republic: A Case Study. *Atmosphere* 13, 479
 28. Youssef AY, El-Kholy MM, SharafEldeen LM, Morsi TM, **Badawy** WM (2024): Sewage Water Irrigation and Radioecological effect in Soil and Plants. *Journal of the Egyptian Society for Basic Sciences-Physics* 1, 159-173
 29. Zaky ZA, Al-Dossari M, Hendy AS, **Badawy** WM, Aly AH (2024): Periodic open and closed resonators as a biosensor using two computational methods. *Scientific Reports* 14, 11943