CURRICULUM VITAE

Personal Data

Name: Eman Taha Mohammad Al-Absi
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Google Scholar: https://scholar.google.com/citations?user=sgPv7KgAAAAJ&hl=en&oi=ao

Scientific Qualifications

- **Ph.D. in Physics / Nanoscience** – Universiti Teknologi Malaysia, Johor Bahru, Malaysia
- **M.Sc. in Applied Physics (Radiation Physics)** – Hashemite University, Zarqa, Jordan
- **B.Sc. in Applied Physics (Radiology & Nuclear Techniques)** – Jordan University of Science & Technology, Irbid, Jordan

Professional Experience

- **2023–Present:** Teacher (Rank A), Department of Coastal Environment, University of Jordan, Aqaba Branch
- **2016–2023:** Teacher (Rank B), Department of Coastal Environment, University of Jordan, Aqaba Branch
- **2012–2016:** Full-time Lecturer, Department of Coastal Environment, University of Jordan, Aqaba Branch
- **2008–2009:** Teaching Assistant, Physics Department, Hashemite University

Teaching Experience

Courses taught: Remedial Physics 99, General Physics 1 & Lab, Environmental Culture, Special Topics/Medical Physics, Ethics & University Life, Health Culture, National Culture, Seminar (Biology Students)

Publications

- **Absi, E.**, Al-Hada, N. M., Hamzah, K., Jamaluddin, K., Ahmad, N. E., Saleh, M. A. (2025). Silver oxide nanoparticles: Synthesis and characterization by thermal treatment technique. Physica B: Condensed Matter, 715, 417636.

- **Absi, E.**, Al Hada, N. M., Ibbini, J. H., Alrousan, D., Ahmad, N. E., Jamaluddin, K., Saleh, M. A., Hamzah, K. (2025). Synthesis, Structural and Optical Characterizations, and Antibacterial Properties of (NiO)0.6(Ag_2O)0.4 Nanoparticles in Natural Water. Ceramics International, 51(5), 5940-5954.
- Abuelsamen, A., Mahmud, S., Makhadmeh, G. N., AlZoubi, T., Diabat, A. M. A., Algadri, N. A., Noqta, O. A., **Absi, E.**, Majid, A. M. S., Oglat, A. A. (2024). Pluronic F-127-coated ZnO Nanoparticles as Superior Photosensitizers for Effective Bladder Cancer Photodynamic Therapy: In-vitro Evaluation. Journal of Drug Delivery Science and Technology, 95, 105550.
- **Absi, E.**, Hamzah, K., Ahmad, N. E., Jamaluddin, K., Al Hada, N. M., Saleh, M. A., Al-Ghaili, A. M., Shayea, I. (2023). Characterisation of binary (NiO)x(Ag2O)1−x nanoparticles synthesized via the thermal treatment route. Ceramics International, 49(11B), 19194-19205.
- **Absi, E.**, Saleh, M., Al Hada, N. M., Hamzah, K., Alhawsawi, A. M., Banoqitah, E. M. (2021). A review on preparation and characterization of silver/nickel oxide nanostructures and their applications. Applied Physics A, 127, 871.
- **Absi, E.**, Saleh, M. A., Al-Hada, N. M., Hamzah, K., Alhawsawi, A. M., Banoqitah, E. M. (2021). Binary nickel and silver oxides by thermal route: preparation and characterization. Applied Physics A, 127, 606.
- Al-Ameer, S., AbuSaleem, K., Abukashabeh, A., Twaiq, O., **Al-Absi, E.** (2020). Is raw spring water safe for drinking? A case study for spring water quality in Jordan. Fresenius Environmental Bulletin, 29(12), 10602-10610.
- Manasrah, R., Alsaad, L., Trabeen, K., Rasheed, M., **Absi, E.**, Dixon, L. K., Al-Sawalmih, A. (2020). Physical and chemical properties of seawater during 2013–2015 in the 400 m water column in the northern Gulf of Aqaba, Red Sea. Environmental Monitoring and Assessment, 192, 188.
- **Absi, E.**, Manasrah, R., Abukashabeh, A., Wahsha, M. (2019). Assessment of heavy metal pollutants at various sites along the Jordanian coastline of the Gulf of Aqaba, Red Sea. International Journal of Environmental Analytical Chemistry, 99(8), 726-740.
- **Absi, E.**, Al-Ameer, S., Manasrah, R. (2019). Critical remarks on radioactivity analysis in drinking waters: high doses and increased lifetime risks from Aqaba tap water, Jordan. Desalination and Water Treatment, 146, 107-119.
- **Al-Absi, E.**, Abukashabeh, A., Manasrah, R., Al-Momani, R., Okoor, S., Wahsha, M. (2018). Determination of selected element concentrations in drinking water from Aqaba City, Jordan. Fresenius Environmental Bulletin, 27(11), 7199-7208.
- Wahsha, M., **Al-Absi, E.**, Bini, C., Bani Yassen, A., Al-Zyoud, W., Al-Jawasreh, R. (2016). Effects of toxic elements on leaf morphology of Halophila stipulacea growing in mine dump sediments in southeast Jordan. International Journal of Environmental Quality, 21, 33-40.
- Wahsha, M., **Al-Absi, E.**, Manasrah, R., Al-Zyoud, W. (2016). The impact of uranium near a phosphate mining port on the environment in the northern Gulf of Aqaba, Red Sea. International Journal of Environmental Quality, 22, 25-32.
- **Al-Absi, E.**, Manasrah, R., Wahsha, M., Al-Makahleh, M. (2016). Radionuclides levels in marine sediment and seagrass in the northern Gulf of Aqaba, Red Sea. Fresenius Environmental Bulletin, 25(9), 3461-3474.

- **Al-Absi, E.**, Al-Abdullah, T., Shehadeh, H., Al-Jundi, J. (2015). 226Ra, 228Ra, and 40K activity concentration in some vegetables consumed in Jordan, and resultant annual ingestion effective dose. Radiation Protection and Environment, 38(1), 29-34.

Conferences & Presentations

- First Scientific Conference on The Red Sea Ecosphere, Aqaba, Jordan, 2022
- Jordan Nano-Symposium 2021 (Online)
- Environmental impact of uranium on marine sediment, PTEs Contamination Conference, Imola, Italy, 2016
- Aqaba International Conference on Marine & Coastal Environment, 2014 (Poster: Radionuclides in marine sediment and seagrass)
- 3rd International Symposium on Nuclear Energy (ISNE-10), Amman, 2010
- Additional workshops and webinars (2013–2025) in nanotechnology, environmental science, and research methodology

Workshops & Trainings

- **Research & Scientific Skills:** High-impact publication writing, systematic literature review, bibliometric analysis, SPSS for data analysis, Mendeley tips, HRTEM sample preparation, Materials Characterization (CharM2022)
- **Teaching & E-learning:** Moodle for interactive learning and online testing, Blended course content design, Smart board usage, Interactive teaching methods, Online learning platforms (Zoom, Webex, Microsoft Teams)
- **Environmental & Professional Skills:** Integrated Coastal Zone Management, Marine environment monitoring, Solid waste recycling and management, Trace elements analysis (IAEA training), EU-ENPI-CBC project RAOP-MED
- **Motivational & Awareness:** Talks on quantum light, solid waste recycling, health and narcotics awareness, International Day of Light celebration

A comprehensive list of all workshops and training courses is available upon request.

Projects

- **RAS7036**: Environmental Radiation Monitoring, ARASIA Region (IAEA, JAEC, JU-AQ)
- **RAS7038**: Marine Plastic Pollution Monitoring, Initial Coordination and Sampling Protocol Meetings (2022)

Fields of Interest

Nanoscience and nanotechnology, Environmental radioactivity, Nuclear techniques, Drinking water quality

Books & Manuals

General Physics Lab-1 manual for biology and marine sciences students (2012/2013)

Languages

Arabic (Native), English (Academic / Professional)

Administrative Roles

- Website Liaison Officer, School of Basic and Marine Sciences (2024–Present)
- Accreditation & QA Officer, School of Basic and Marine Sciences (2020–2023)
- Secretary & Council Member, School of Nursing (2020/2021)
- Course Coordinator, Environmental Science / Culture / Health Courses (2013–2022)
- Committee roles: student elections, scientific day organization, curriculum development