WASIT University
College of Science

Asst. Prof.Dr. Maitham Salman Amana
Iraq, Wasit province - District July 14
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Academic Qualifications

1997- date **Bachelor of science**
Department of Physics
Babylon University

2014 - date **Master of science**
Department of Environmental Studies - Physical branch
Alexandria University, Institute of Graduate Studies and Research.
Master's Thesis: Radiological study of soil in Rashid region / Egypt

2024- date Ph.D. Department of Environmental Studies,
Alexandria University, Institute of Graduate Studies and Research.
Ph.D. Thesis: Radioecological Impacts of Successive Phosphate Fertilization on Some Types of Agricultural Soil - Egypt

Accounts:

ORCID: 0000-0002-4806-2126
https://scholar.google.com/citations?hl=ar&user=9iv9taIAAAAJ
https://www.scopus.com/authid/detail.uri?authorId=57216331045
https://www.webofscience.com/wos/author/record/AAX-9310-2021

Scholarships and Awards

Receive (10) letters of thanks and appreciation from the President of Wasit University

Receive (35) letters of thanks and appreciation from the Dean of the College of Science.

Professional Profile

- Research, qualitative and analytical capacity with the ability to conduct independent research in the field of scientific research, especially in radioactive pollution. Ability to develop goals and objectives and implement strategies through Planning and scientific research.
- Working knowledge of Word, Excel, PowerPoint and Statistical Package for Social Scientists.

Academic Employment – Teaching and Research

2014 **Tutor**

Department of Physics, College of Science, Wasit University

Responsibilities

Taught a lot of theoretical and practical subjects:

1- Radioactive contamination
2- Experimental nuclear physics
3- Radiological Experimental
4- Experimental electronics.

Achievements

Designing and manufacturing protective shields for laboratory systems for radioactive sources for the safety of students and workers.

Employment History – General

2014 **Lecturer**

Department of Physics, College of Science, Wasit University, Kut, Wasit, Iraq.

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Publications

1- Aldhuhaibat, M. J., **Amana, M. S.,** Jubier, N. J., & Salim, A. A. (2021). Improved gamma radiation shielding traits of epoxy composites: Evaluation of mass attenuation coefficient, effective atomic and electron number. *Radiation Physics and Chemistry*, *179*, 109183.

2- Aldhuhaibat, M. J., **Amana, M. S.**, Farhan, A. J., & Jubier, N. J. (2020, March). Study of Cross Section Areas Ratios for Scattering Interactions of Gamma Photons in He, Fe, Fm, H2O Materials. In *IOP Conference Series: Materials Science and Engineering* (Vol. 757, No. 1, p. 012013). IOP Publishing.

3- Aldhuhaibat, M. J., Alfakhar, M. K., & **Amana, M. S.** (2015). Numerical buildup factor calculation of gamma rays for single, dual, and multi-layers shields using lead and aluminum. *International Journal of Recent_Scientific Research*, *6*(7), 5184-5189.

4- Buildup Factor Measurement of Gamma Photons of Co-60 Radioactive Source in Polyester Composite Shields Fortified by Different Concentrations of CaFe2O4 Powder Prepared at Different Thermal Degrees. Mohammed J. R. Aldhuhaibat , Saba Farhan. H, Hussein T. John Ali, **Maitham S. Amana.** International Journal of Innovative Research in Science, Engineering and Technology (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 8, August 2016.

5- Amana, M. S. (2017). Radiation hazard index of common imported ceramic using for building materials in Iraq. *Aust. J. Basic. Appl. Sci.*, *11*(10), 94-102.

6- Aldhuhaibat, M. J., Hussein, M. L., Hyder, M. T., & **Amana, M. S.** (2020, April). Study of the Irradiation Effect by α-Particles on Optical Properties of ZnO: 6% In Thin Films. In *Journal of Physics: Conference Series* (Vol. 1484, No. 1, p. 012003). IOP Publishing.

7- Evaluation of Naturally Occurring Radionuclide in Some Types of Granites that Used in Iraq. **Maitham S. Amana**, Saba Farhan. H, Hussein T. John Ali Journal Of Wassit For Science & Medicine 2016, Volume 9, Issue 2, Pages 21-32.

8- Amana, M. S., Jubier, N. J., Aldhuhaibat, M. J., & Salim, A. A. (2021). Assessment of radioactivity levels in some cement produced locally in Iraq. *Radiation Detection Technology and Methods*, *5*, 633-640.

9- Amana, M. S., Muslim, R. I., Aldhuhaibat, M. R., & Salim, A. A. (2021). Assessment of radiation levels and geochemical factors in Iraq Soil. *NeuroQuantology*, *19*(6), 79-89.

10- Amana, M. S., Aldhuhaibat, M. J. R., & Salim, A. A. (2021). Evaluation of the absorption, scattering and overall probability of gamma rays in lead and concrete interactions. *SCIOL Biomed*, *4*, 191-199.

11- Aldhuhaibat, M. J., **Amana, M. S.,** Aboud, H., & Salim, A. A. (2022). Radiation attenuation capacity improvement of various oxides via high density polyethylene composite reinforcement. *Ceramics International*, *48*(17), 25011-25019.

12- Al-Ankaz, Z. S., Muslim, R. I., & **Amana, M. S.** (2023). Environmental Geochemistry of some Heavy Metals and the Radioactivity in Urban Subsurface Soils, Southeast-Baghdad. *Pollution (2383451X)*, *9*(4).

13- Salim, A. A., Ghoshal, S. K., **Amana, M. S.**, Mufti, N., Aziz, M. S. A., Waheed, S. R., ... & Bakhtiar, H. (2024). Humidity sensing characteristics of rose Bengal dye-functionalized plasmonic silver Nanoparticles-coated Novel Fiber-Optic sensors. *Optical Fiber Technology*, *88*, 104025.