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Academic Profile

Academic rank
Lecturer

Highest degree
Master's

General specialty
physics

Subspecialty
PHYSICS

Department
Physiology

Year joined the college
2023

Academic profiles

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Research interests Nuclear Physics, Medical Physics

Teaching — Undergraduate 1

PHYSICS

Publications 7

#	Research title	Year
1	**Mass attenuation coefficient of electromagnetic radiation for human tissues** Shlair I Mohammed, Ali H Taqi. *Journal of Radiation Research and Applied Sciences* · 18(1): 101255 · [Elsevier] https://doi.org/10.1016/j.jrras.2024.101255	**2025**

#	Research title	Year
2	**Theoretical Calculation of Radiation Shielding Properties of B2O3–Bi2O3–Al2O3–MgO Glasses Alloyed with MnO** Shlair Ibrahim Mohammed, Zainab Qahtan Mosa. *Baghdad Science Journal* · 22(5):1578-1585 · [Scopes] https://doi.org/10.21123/bsj.2024.10508	2025
3	**The Use of Technetium-99m Radioactive Isotope in The Diagnosis and Treatment of Thyroid Diseases: A Review** Shlair I Mohammed. *Al-Kitab Journal for Pure Sciences* · 9(1):51-67 https://isnra.net/index.php/kjps/article/view/1215	2025
4	**The Importance of MRI Imaging to Detect Breast Cancer: A Review.** Shlair I Mohammed. · 34(1) https://rsci.uomosul.edu.iq/index.php/rsci/article/view/47449	2025
5	**Influence of the addition of WO3 on TeO2–Na2O glass systems in view of the feature of mechanical, optical, and photon attenuation** Hanan Al-Ghamdi, Sabina Yasmin, Mohammad Ibrahim Abualsayed, Ashok Kumar, Aljawhara H Almuqrin, Shlair Ibrahim Mohammed. *Open Chemistry* · 21(1):20230136 https://www.degruyterbrill.com/document/doi/10.1515/chem-2023-0136/html	2023
6	**Annealing duration dependent optical, nonlinear optical, and optical limiting properties of rare-earth doped glasses embedded with gold nanoparticles** Dalal Abdullah Aloraini, Aljawhara H Almuqrin, G Jagannath, MI Sayyed, K Keshavamurthy, AG Pramod, KR Venkatesha Babu, Shlair Ibrahim Mohammed, S Venugopal Rao. *Journal of Non-Crystalline Solids* · 597 · [Elsevier] https://doi.org/10.1016/j.jnoncrysol.2022.121921	2022
7	**Simulation of the Gamma Attenuation through Borate Glass Using Genat4** Shlair I Mohammed, Ali H Taqi, Abdulahdi M Ghalib. *Rafidain Journal of Science* · 30(2):11-22 https://ojs.uomosul.edu.iq/index.php/rsci/article/view/47730	2021