

# قائمة بالابحاث العلمية المنشورة من قبل اعضاء هيئة التدريس قسم الفيزياء – جامعة اليرموك لعام 2025

Telfah, A., Thiabat, S., **Ababneh, A. M.**, Ahmad, A. A., **Ababneh, Z. Q.**, Al Bataineh, Q. M., & Tavares, C. J. (2025). Salicylic acid ionization dynamics in aqueous solution for pharmaceutical formulations. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 725, 137601.

**Ababneh, R.**, Harahsheh, G., Alhadid, A., Alshaer, W., Alqudah, D., Kirchner, J., & Telfah, A. (2025). Synthesis and Characterization of Boron-Doped Cadmium Sulfide Nanocomposites for Anticancer Applications. *Biochemical and Biophysical Research Communications*, 153039.

Tabaza, A., Al-Hiari, Y., Abu-Dahab, R., Kasabri, V., **Ababneh, R.**, AlBashiti, R., & Telfah, A. (2025). Synthesis, Biological Assay, and SAR of Potential Anticancer Lipophilic Fluoroquinolones (FQs) and Pyridoquinoxalines (PQs) Conjugated to Gold Nanoparticles for Synergistic and Proapoptogenic Cytotoxicity Drug Design and Targeted Delivery. *Chemical Biology & Drug Design*, 106(2), e70128.

**Al-Ali, M. M., Jaradat, A. A., Al-Khateeb, A. M., Bawa'aneh, M. S., & Mahmood, S. H.** (2025). On the transmission performance of an effective uniaxial medium in application to A-sandwich radome wall structure. *Physica Scripta*, 100(5), 055510.

**Qteish, A.**, Amayreh, M., Yousuf, N., & Al-Qasir, I. I. (2025). The vibrational and thermal properties of Mg<sub>2</sub>Si: Anharmonic effects. *Physica B: Condensed Matter*, 417200.

Rabaeh, K. A., **Eyadeh, M. M.**, Hazaimah, F. M., & **Almomani, A. M.** (2025). Effect of acidic media on the dose response of chemically cross-linked Fricke Methylthymol blue gel dosimeters. *Radiation Physics and Chemistry*, 113500.

Rabaeh, K. A., **Eyadeh, M. M.**, & Alrub, A. J. (2025). Enhancement of the dosimetric properties of N-vinyl caprolactam polymer gel dosimeter for clinical practice. *Applied Radiation and Isotopes*, 220, 111796.

**Eyadeh, M. M.**, Samara, M. A., & Rabaeh, K. A. (2025). Improving dose sensitivity of N-vinyl caprolactam polymer gel dosimeters with sodium chloride additive. *Journal of Radioanalytical and Nuclear Chemistry*, 334(2), 1827-1839.

Aladerah, B., Alrousan, A., Obeidat, A., & **Al-Sharif, A.** (2025). Properties of cubic GdAlO<sub>3</sub> perovskite under pressure: density functional theory and Monte Carlo simulations. *Journal of Computational Electronics*, 24(1), 12.

**Almomani, A.**, & Ratzinger, U. (2025). Coupling Concept for Cross-Bar H-Type Cavities: Linear Accelerator. *Jordan Journal of Physics*, 18(2), 241-248.

Adkins, J. K., Akiba, Y., **Albatineh, A.**, Amaryan, M., Arsene, I. C., Gayoso, C. A., ... & Mkrтчyan, H. (2025). Design of the ECCE detector for the Electron Ion Collider. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 1073, 170240.

Alzahrani, H., Alzahrani, F., Aljohani, H., Albalawi, SH., Aljurbua, SH., Elzaki, M., Alsharif, M., Alhummiyany, B., Gareeballah, A., Altay, E., Elmahdi, T., Alsaedi, A., **Abdallah, M. J.**, Jamjoom, L., and Almutairi, B. (2025, October). An Exploratory Analysis of Public Perspectives and Attitudes Towards Radiation in Saudi Arabia. In *Healthcare* (Vol. 13, No. 19, p. 2538). MDPI.