



Staff Member Name: Dr. Saed Al Atawneh

Email: salatawneh@zu.edu.jo

General Major/ Specialization: Physics/Nuclear Physics

Academic Rank: Assistant Professor

Membership:

	Jordanian Association of Physics in Medicine (JAPM)
	World Institute for Nuclear Security (WINS)

Qualifications:

	Ph.D. degree in Nuclear Physics
	M.Sc. degree in Nuclear Physics
	B.Sc. degree in Biomedical Physics

Professional Objective(s):

**Teaching Experience:**

#	From	to	
1	2009	2009	Ministry of Education of Jordan
2	2018	2022	University of Debrecen
3	2024	Current	Zarqa University

Publications:

#	Title	Publisher	Year/ Issue (Vol/No)
.1	Ionization cross sections in collisions between two hydrogen atoms by a quasi-classical trajectory Monte Carlo model.	Physical Chemistry Chemical Physics	2022. 24, 15280
.2	Projectile electron loss, excitation, and deexcitation cross section database in a collision between two hydrogen atoms in the impact energy range between 50 keV–5.0 MeV, Part I: Target is in ground state	Atomic Data and Nuclear Data Tables	2022. 146: p. 101513
.3	Target electron removal in C5+ + H collision	Nuclear Fusion	2021. 62 026009
.4	Excitation cross sections in a collision between two ground-state hydrogen atoms	J. Phys. B: At. Mol. Opt. Phys.	2021. 54 065202
.5	Ionization Cross Sections in the Collision between Two Ground State Hydrogen Atoms at Low Energies	Atoms	2020. 8 (2): 31
.6	Ionization Cross Sections in Li+2 +H Collision	Jordan Journal of Physics	2024. 17 (5)
.7	Negative ion formation in H+H collision at low-to high-energies	Jordan Journal of Physics	2025. 18 (1)
.8	Evaluating the Performance of Various Detectors in the Small Field Size by 6 MV Linac	Iranian Journal of Medical Physics	2023. 20. 1-6
.9	In-Vivo Dosimetry for the Head and Neck Cancer: Gafchromic Films	Journal of Community Medicine and Public Health Reports	2022. 3, 02
.10	Empirical Formalism for the Phantom Scatter Factor of Small Fields: Using Different Density Media	Clinical Engineering and Radiation Oncology	2022. 11, 36-47



.11	Analytical Formula for the total scatter factor of the Small Radiation Field Size	Journal of Research in Applied and Basic Medical Sciences	2022. 7 (3): p. 152-160
.12	Cross-sections for Projectile ionization, Electron capture, and System breakdown of Li^{2+} and C^{5+} ions with Atomic Hydrogen	<i>Atoms</i>	2024
.13	Excitation cross-sections for atomic hydrogen by hydrogen-like ions of helium and carbon.	<i>Eur. Phys. J. Plus</i>	139, 902 (2024).
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Books:

#	Book Title	Publisher	Year
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Translated Books:

#	Book Title	Publisher	Year
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Articles:

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Conferences:

#	Paper Title	Organizing Institution	Conference
.1	Excitation and Ionization Cross Sections in H+H Collisions	Turku, Finland	Many Particles Spectroscopy Conference (MPS)
.2	Interaction of Li ²⁺ ions with hydrogen atoms	Virtual meeting (Hungary)	MD-GAS COST Action (CA18212): 2nd General Meeting
.3	Collision between Two Hydrogen atoms	In virtual format (ViCPEAC 2021)	32nd International Conference on Photonic, Electronic, and Atomic Collisions
.4	Interaction of C ⁵⁺ ions with hydrogen atoms	Romania.	27th International Symposium on Ion-Atom Collisions (ISIAC)
.5	Collision between Two Hydrogen atoms	Serbia	30th Summer School and International Symposium on the Physics of Ionized Gases, SPIG2020
.6	ANALYTICAL FORMULISM FOR THE OUTPUT FACTOR CALCULATION OF SMALL RADIATION BEAMS	Serbia	30th Summer School and International Symposium on the Physics of Ionized Gases, SPIG2020
.7	Dosimetrical study of Output Factor of Small Photon Beam: Anthropomorphic study	Vienna International Center (VIC), Vienna, Austria	International Conference of Advanced Radiation Oncology (ICARO2)
.8		King Hussein cancer center (KHCC)	Radiobiology conference
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Supervision of Theses:

#	Year	University	Thesis Title	Student Name
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Community Service Activities

#	Duration	Activity
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Personal Information



Name	Saed Jumah AlAtawneh	
Place and Date of Birth	Al Salt-Jordan 1986/05/16	
Nationality	Jordanian	
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