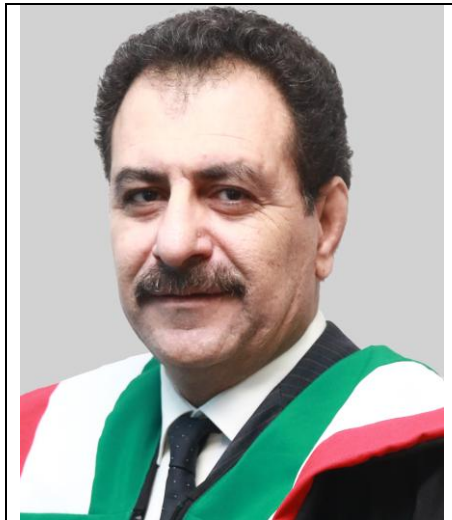


**Ibrahim Naji Ghabar**

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Physics/Theoretical nuclear physics

Academic Rank: Associate Professor**Membership:****Qualifications:**

1	PhD\ Nuclear Physics 2014
2	M.Sc \ Polymer Physics 1996
3	B.Sc \Physics

Teaching Experience:

#	From	to	
1	15/10/2025		Dean Of Graduate Studies\Zarqa University
2	2/2/2024	15/10/2025	Dean of Faculty of Science
3	2023/9/24	2/2/2024	Vice Dean of Faculty of Science
4	2022/9/24	2023/9/24	Head of Physics Department\Zarqa University
5	2017	Now	Assistant professor at Zarqa University.
6	2015	2015	Assistant professor at German Jordanian University to teach Physics II .
7	2005	2017	Teacher in a high school at private schools .
8	1993	2005	Teacher in a high school, Ministry of Education-Jordan.



	1990	1990	Teacher at al Zarqa Collage
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Publications:

#	Article Title	Publisher	Year/Issue (Vol/No)
.1	Velocity-dependent optical potential for neutron elastic scattering from 1 <i>p</i> -shell nuclei.	PHYSICAL REVIEW C 91 , 064308 (2015).	2015, Volume C 91 064308
.2	Nucleon-nucleus velocity-dependent optical model: revisited	Journal of Physics G: Nuclear and Particle Physics	2022 Volume 49, Number 1
.3	Velocity dependent potential for alpha 40Ca-elastic scattering	Results in Physics	2023 Volume 47, 106335
.4	Using Laplace Residual Power Series Method in Solving Coupled Fractional Neutron Diffusion Equations with Delayed Neutrons System	fractal and fractional	2023 Volume 7, 219
.5	Preparation and optoelectronic performance of 2,7,12,17-tetra-tert-butyl-5,10,15,20-tetraaza-21H,23H-porphine-CuS films for photovoltaic applications	Dyes and Pigments	2023 Volume 218, 111452
.6	A solution for the neutron diffusion equation in the spherical and hemispherical reactors using the residual power series	Frontiers in physics	2023,
.7	Density and energy dependent semi-microscopic optical potential of nucleon–nucleus elastic scattering	Results in Physics	2024(60)
.8	The Optical Model Absorption Term in the Frame of Fractional Derivatives	Atoms	2024(12,37)
.9	Investigation of structural, electronics, and optical characteristics of cubic SrZr _{1-x} Ru _x O ₃ perovskites: first-principles study	The European Physical Journal Plus	(2025) 140:510
.10	A Semi-Analytical Technique for Solving the Time-Fractional Kaup-Kupershmidt Equation	Progr. Fract. Differ. Appl.	Appl. 11, No. 03, 507-520 (2025)

Books:

#	Book Title	Publisher	Year
.1	G12 Physics Student and Work book	National Center for Curriculum Development	2022



Conferences:

#	Paper Title	Organizing Institution	Conference
.1	Fractional Derivative of the Spin-Orbit Term in The Optical Potential for Nucleon $-(^{12}\text{C})$ Elastic Scattering	Zarqa University	The 8th International Arab Conference on Mathematics and Computations

Personal Information

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