

Published Research by the Faculty Members of the Mathematics Department for the Year 2025

impact factor or cite score of journal	Journal classification	ISSN for Journal	Full name of the Journal	Publication Year	Research title	Names of participating researchers	Name of the sole author or the first author
0.153	Scopus Q4	0094243X	AIP Conference Proceedings	2025	A new effective parameter for unconstrained optimization using the memoryless quasi-newton method	Ghada Moayid Al-Naemi	Zyiad Adrees Hamad
	Local	6838-2789	Samarra J. Pure Appl. Sci.	2025	An Efficient Spectral Parameter for Accelerating the Conjugate Gradient Algorithm	Ghada Moayid Al-Naemi	Zyiad Adrees Hamad
IF (1.2)	Clarivate	18463312	Journal of Information & Optimization Sciences	2025	A new parameter to enhance three-term conjugate gradient method with inexact line search	Ghada Moayid Al-Naemi	Fanar N. Al-Namat
CiteScore (2.4)	Clarivate Scopus	0161-1712	International Journal of Mathematics and Mathematical Sciences	2025	On Weakly 2-Invo Clean Rings with Some Properties in Graph Theory	Raida Dawood Mahmood Ahmed Mohammed Ali	Salim Ghadeer Salim
CiteScore (0.5)	Scopus	0094-243X	AIP Conference Proceedings	2025	Remark on Two Involution Clean Rings	Raida Dawood Mahmood Mohammed Thanoon Al-Neima	Ali Mohammed Hassan
IF: 1.6 cite score: 3.4	Scopus	9845-0974	Indian Journal of Physics	2025	Electronic circuit and image encryption for a new 3D nonuniformly conservative system	Saad Fawzi Jasim Al-Azzawi	Karam Nizar Abdul Karim
cite score: 1.1	Scopus	6414-2164	Discontinuity, Nonlinearity, and Complexity	2025	Dynamical Analysis and Multisim Simulation of a New 4D Generalized Hamiltonian System	Saad Fawzi Jasim Al-Azzawi	Karam Nizar Abdul Karim
IF: 2.6 cite score:	Scopus	4896-1402	Physica Scripta	2025	Electronic circuit and image encryption using a novel simple	Saad Fawzi Jasim Al-	Karam Adel Abd

3.7					4D hyperchaotic system	Azzawi- Omar Saber Qasim Yahya	
IF: 1.6 cite score: 3.4	Scopus	9845-0974	Indian Journal of Physics	2025	Image encryption and electronic circuit design using a novel five- term 3D chaotic jerk system	Saad Fawzi Jasim Al-Azzawi	Ammar Mohammed Al-Rawi
1.5	Scopus	0747-2369	Mathematical Modelling of Engineering Problems	2025	Feature subset selection based on differential evolution algorithm and k-mean clustering	Fatima M. Hasan Hanadi D. Saleem Omar S. Qasim	Talal F. Hussein
0.5	Q4	0094-243X	AIP Conference Proceedings	2025	Solving the SEIR Computer Virus Model Using the Tamimi and Ansari Approximate Method	Ahmed Entesar	Sadoon Haji Osif