

Published Research by the Faculty Members of the Mathematics Department for the Year 2022

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
Cite score (0.36) IF (1)	Scopus Q3 & Clarivate	13075543	EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS	2022	A new nonlinear three-term conjugate gradient method and its global convergence.	Firas Mahmood	Ghada Moayid Al-Naemi
Cite score (0.36) IF (1)	Scopus Q3 & Clarivate	13075543	EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS	2022	The Convergent Properties of a New Parameter for Unconstrained Optimization		Ghada Moayid Al-Naemi
0.274	Scopus Q3	17293774	Eastern-European Journal of Enterprise Technologies	2022	A NEW MODIFIED HS ALGORITHM WITH STRONG POWELL-WOLFE LINE SEARCH FOR UNCONSTRAINED OPTIMIZATION		Ghada Moayid Al-Naemi
CiteScore (1.0)	Clarivate Scopus	1307-5543	European Journal of Pure and Applied Mathematics	2022	Involution t–Clean Rings with Applications	Mohammed Thanoon Al-Neima Ahmed Mohammed Ali Raida Dawood Mahmood	Shaimaa Hatim Ahmed
/	Local		Journal of Iraqi Al-Khwarizmi	2022	On P - Ring	Sura Abdul Satar Abd	Raida Dawood Mahmood
CiteScore (1.0)	Clarivate Scopus	1307-5543	European Journal of Pure and Applied Mathematics	2022	A New Secant Type Method with Quadratic-Order Convergence	Basim Abbas Hassan Barah Mahmood Sulaiman	Ekhlass Saadallah Ahmed
CiteScore (0.6)	Clarivate Scopus	1126-8042	Italian Journal of Pure and Applied Mathematics	2022	A new secant type method for solving one variable functions	Basim Abbas Hassan Barah M.	Zinah Falih salih

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			International Journal of Mathematics and Mathematical Sciences	2022	A Method of Two New Augmented Lagrange Multiplier Versions for Solving Constrained Problems	Huda I.Ahmed Eman .Hamed Abbas Y.AL- Bayat	Hamsa Th. Saeed
0.6	Q4	5688-2219	Palestine Journal of Mathematics	2022	Mn –polynomials of theta and wagner graphs	Mustafa, Raghad A Ali, Ahmed M. Khidhir, Abdulsattar M.	Mustafa, Raghad A
	IEEE		4th International Conference on Current Research in Engineering and Science Applications, ICCRESA 2022	2022	A New 4D Hyperchaotic System with Hybrid Synchronization	Saad Fawzi Al- Azzawi	.Hasan, Anmar M
	IEEE		4th International Conference on Current Research in Engineering and Science Applications, ICCRESA 2022	2022	A New Simple 7D Hyperchaotic System with Hidden Attractors and Electronic Circuit	Saad Fawzi Al- Azzawi	Shua'A M. Aziz
	IEEE		4th International Conference on Current Research in Engineering and Science Applications, ICCRESA 2022	2022	A New Simple 6D Hyperchaotic System with Non-Hyperbolic Equilibrium and Its Electronic Circuit	Saad Fawzi Al- Azzawi	Zaidoon Sh Al-Talib
IF: 1.2 cite score: 2.4	Scopus	2384-1230	Archives of Control Sciences	2022	Coexisting of self-excited and hidden attractors in a new 4D hyperchaotic Sprott-S system with a single equilibrium point	Maryam A. Al- Hayali	Saad Fawzi Al-Azzawi
CiteScore: 4.5 IF: 2.9	Scopus & WoS	0170-4214	Mathematical Methods in the Applied Sciences	2022	New abundant solitary wave structures for a variety of some nonlinear models of surface wave propagation with their geometric interpretations	Mohammed O Al- Amr	Shoukry El- Ganaini
2.8	Scopus		Journal of Dynamics and Games	2022	Gene Subset Selection Using Dependence Fuzzy Statistical Technique And Binary Bat Algorithm	hammed SabahMahmoud FatimaMahmo Mohammed Sabah Mahmoud	Mohammed Sabah Mahmoud

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1.3	Q2	1307-5543	EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS	2022	New Spectral Idea for Conjugate Gradient Methods and its Global Convergence Theorems	Zinah F. Salih	Aseel M. Qasim
1.3	Q2	1307-5543	EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS	2022	A New Secant Type Method with Quadratic-Order Convergence	Basim A. Hassan Barah M. Sulaiman	Zinah F. Salih
2.9	Q3	2502-4752	Indonesian Journal of Electrical Engineering and Computer Science	2022	New memoryless - self scaling quasi Newton strategy on large scale unconstrained optimization problems	Zinah F. Salih	Aseel M. Qasim
2.7	Q2	0972-0502	Journal of Interdisciplinary Mathematics	2022	Enhancing semi-analytical iterative method using the Boole's rule for solving the second-order differential equations	Ahmed Entesar	Hiba Shuker Mahmood
2.7	Q2	0972-0502	Journal of Interdisciplinary Mathematics	2022	Solving nonlinear differential equations using a hybrid method between the variational iteration method and grey wolf optimization algorithm	Ahmed Entesar Omar Saber Qasim	Hiba Shuker Mahmood
2.7	Q2	0972-0502	Journal of Interdisciplinary Mathematics	2022	Hybrid method between Lyapunov's artificial small parameter and bat algorithm for fractional differential equations	Ahmed Entesar Omar Saber Qasim	Mohamed Sabah
0.5	Q4	0094-243X	AIP Conference Proceedings	2022	Improving Homotopy Analytical Method with Sine Cosine Algorithm and Simpson Integrative Method for Solving Fractional Ordinary Differential Equations	Ahmed Entesar Omar Saber Qasim	Mostafa Raed Najeeb