المملكة العربية السعودية
وزارة التعليم
الجامعة الإسلامية بالمدينة المنورة
(٠٣٢)
كلية العلوم

النشاط البحثي لأعضاء هيئة التدريس بقسم الرياضيات

خلال العام الميلادي 2023

المملكة العربية السعودية
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No.	Article Title	Publication month	Journal	IF	Authors	IU affiliation		Article URL	Funded by	Indexed	
						First	Second			ISI	Scopus
1.	A changeable thermal conductivity and optoelectronic-mechanical wave behavior in a microelongated, non-locally rotating semiconductor media	30 October 2023	Frontiers in Physics	3.1	Alwaleed Kamel, Weaam Alhejaili, Wafaa Hassan, Alaa A. El-Bary and Khaled Lotfy	√		https://www.frontiersin.org/articles/10.3389/fphy.2023.1287381/full		√	
2.	Analysis of generalized nonlinear quadrature for novel fractional-order chaotic systems using Sinc shape function	Mathematics 2023, 11 (8), 1932	*Mathematics*	2.4	Abdelfattah Reda Mustafa, S. Salama and Mokhtar Mohamed	√		https://doi.org/10.3390/math11081932		√	√
3.	Semi-Analytical Analysis of Drug Diffusion through a Thin Membrane Using the Differential Quadrature Method	Mathematics, 2023, 11(13), 2998	*Mathematics*	2.4	Abdelfattah Mustafa, Reda S. Salama and Mokhtar Mohamed	√		doi.org/10.//:https3390/math11132998		√	√

4.	Distinctive Shape Functions of Fractional Differential Quadrature for Solving Two-Dimensional Space Fractional Diffusion Problems	Fractal and Fractional , 2023, 7(9), 668	*Fractal and Fractional*	5.4	Abdelfattah Mustafa, Ola Ragb, Mohamed Salah, Reda S. Salama and Mokhtar Mohamed	√		https://doi.org/10.3390/fractalfract7090668		√	√
5.	Analysis of generalized nonlinear quadrature for novel fractional-order chaotic systems using Sinc shape function	Mathematics 2023, 11 (8), 1932	Mathematics	2.4	Abdelfattah Reda Mustafa, S. Salama and Mokhtar Mohamed	√		https://doi.org/10.3390/math11081932		√	√
6.	**Jordan *-derivations on Standard Operator Algebras",**	January	Filomat	0.8	Abu Zaid Ansari, Faiza Shujat	√		https://doi.org/10.2298/FIL2301037A		√	√
7.	Theoretical and Numerical Simulations on the Hepatitis B Virus Model through a Piecewise Fractional Order	November	Fractal and Fractional		KA Aldwoah, Mohammed A Almalahi, Kamal Shah	✓		https://doi.org/10.3390/fractalfract7120844	----	✓	√
8.	**Additive mappings satisfying algebraic identities in semiprime rings**	January	Discussiones Mathematicae - General Algebra and Applications, 327–337.		Abu Zaid Ansari	√		https://doi.org/10.7151/dmgaa.1422	Islamic University of Madinah	√	√
9.	**Generalized differential identities on prime rings and algebras**	July	AIMS Mathematics, 22758–22765	2.2	Abu Zaid Ansari, Faiza Shujat and Ahlam Fallatah	√		https://www.aimspress.com/article/	Islamic University of Madinah	√	√

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10	On the Explicit Solution of ψ-Hilfer Integro-Differential Nonlocal Cauchy Problem	January	Progr. Fract. Differ. Appl	0515	Mohammed A. Almalahi , Satish K. Panchal , Khaled Aldwoah and Mansour Lotayif	✓		http://dx.doi.org/10.18576/pfda/090104	---		✓
11	**Characterization of additive mappings on semiprime rings**	October	Rendiconti del Circolo Matematico di Palermo	1	Abu Zaid Ansari	√		https://doi.org/10.1007/s12215-023-00959-4	Islamic University of Madinah	√	√
12	On Lie ideals with generalized derivations and power values on prime rings	October	Palestine Journal of mathematics, 194-198.		Abu Zaid Ansari, Nadeem ur Rehman and Faiza Shujat	√		https://pjm.ppu.edu/paper/1484-lie-ideals-generalized-derivations-and-power-values-prime-rings	Islamic University of Madinah		√
13	Classification of additive mappings on certain rings and algebras	November	Arabian Journal of Mathematics	1.2	Abu Zaid Ansari	√		https://doi.org/10.1007/s40065-023-00448-7		√	√
14	Power hazard-geometric distribution and its characterization. 19(1), 47-50.	June	International Journal of Agricultural and Statistical Sciences	0.22	Khan, M. I.	√		https://doi.org/10.59467/IJASS.2023.19.47	Deanship of Scientific Research (Post Publication-2)		√

15	Power- linear hazard distribution via k-th record values and characterization. 17(5), 735-739.	Septembe r	Applied Mathematics and Information Sciences	0.23	Khan, M. I. كلية العلوم	√		http://dx.doi.org/10.18576/amis/170501	Deanship of Scientific Research (Post Publication-2)		√
16	Moments of ordered random variates for transmuted power hazard distribution. 41(5), 1047-1056.	October	Journal of Applied Mathematics and Informatics	0.15	Khan, M. I.	√		https://doi.org/10.14317/jami.2023.1047	Deanship of Scientific Research (Post Publication-2)		√
17	A modified viscosity-type self-adaptive iterative algorithm for Common solution of split problems with multiple output sets in Hilbert spaces	**October 2023**	Mathematics	2.4	M. Asad, M. Dilshad, D. Filali, M. Akram	√		https://www.mdpi.com/2227-7390/11/19/4175	DSR, Islamic University	√	
18	Investigation of a two-dimensional photovoltaic thermal system using hybrid nanofluids and a rotating cylinder	September 2023	Nanoscale Advances	4.7	M. Akram, A. A. Memon, M. A. Memon, A.M. Obalalu, Umair Khan	√		https://pubs.rsc.org/en/content/articlelanding/2023/NA/D3NA00713H	DSR, Islamic University	√	
19	An extension of strict almost contractions employing control function and binary relation with applications to boundary value problems	September 2023	Mathematics	2.4	D. Filali, M. Akram, M.Dilsha	√		https://doi.org/10.3390/math11194027	DSR, Islamic University	√	
20	Problem on piecewise Caputo-Fabrizio fractional delay differential equation	February 2023	Physica Scripta	2.9	D. Filali, A. Ali, Z. Ali, M. Akram, M. Dilshad, P. Agarwal	√		https://iopscience.iop.org/article/10.1088/1402-4896/acb6c4/pdf	No Funding	√	

	under anti-periodic boundary conditions										
21	Approximation of iterative methods for altering points problem with applications	January 2023	Mathematical Modelling and Analysis	1.8	A. Khan, M. Akram, M. Dilshad	√		https://doi.org/10.3846/mma.2023.14858	DSR, Prince Sattam Bin Abdulaziz University	√	
22	Convergence analysis for generalized Yosida inclusion problem with applications	March 2023	Mathematics		M. Akram, M. Dilshad, A. Khan, S. Chandok, I. Ahmad	√		https://doi.org/10.3390/math11061409	DSR, Prince Sattam Bin Abdulaziz University	√	
23	Atangana-Baleanu-Caputo differential equations with mixed delay terms and integral boundary conditions	February 2023	Mathematical Methods in the Applied Sciences	2.9	D. Filali, A. Ali, Z. Ali, M. Akram, M. Dilshad	√		https://doi.org/10.1002/mma.9131	No Funding	√	
24	Adaptive inertial Yosida approximation iterative algorithms for split variational inclusion and fixed point problems	March 2023	AIMS Mathematics	2.7	M. Dilshad, M. Akram, M.N. Zama, D. Filali, A. A. Khidir	√		file:///C:/Users/DELL/Downloads/10.3934_math.2023651.pdf	Princess Nourah bint Abdulrahman University	√	
25	On generalized Yosida inclusion problem with application.	March 2023	Results in Control and Optimization		M. Akram	√		https://doi.org/10.1016/j.rico.2023.100223	No Funding		√
26	Inertial iterative algorithms for split variational inclusion and fixed point problems	August 2023	Axioms	2.0	D. Filali, M. dilshad, L. S. Alyasi M. Akram	√		https://doi.org/10.3390/axioms12090848	DSR, Islamic University	√	
27	High-dimensional chaotic Lorenz system: Numerical treated using Changhee polynomials of the Appell type	May, 2023	Fractal and fractional	5.4	M. Adel, M. M. Khader and S. Algelany	√		https://doi.org/10.3390/fractalfract7050398		√	√

28	An Accurate Approach to Simulate the Fractional Delay Differential Equations	September, 2023	Fractal and fractional	5.4	M. Adel, M. M. Khader, S. Algelany and K. Aldwoah	✔		https://doi.org/10.3390/fractalfract7090671		✔	✔
29	Derivation of an approximate formula of the Rabotnov fractional-exponential kernel fractional derivative and applied it for numerically solving the blood ethanol concentration system	November, 2023	AIMS Mathematics	2.2	A. Aboubakr, G. Ismail, M. M. Khader, M. Abdelrahman, A. AbdEl-Bar and M. Adel	✔		https://doi.org/10.3934/math.20231569		✔	✔
30	Numerical investigation for the fractional model of pollution for a system of lakes using the SCM based on the Appell type Changhee polynomials	November, 2023	AIMS Mathematics	2.2	M. Adel, M. M. Khader, M. M. Babatin and M. Z. Youssef	√		https://www.aimspress.com/article/doi/10.3934/math.20231592		√	√
31	Theoretical and numerical treatment for the fractal-fractional model of pollution for a system of lakes using an efficient numerical technique	October, 2023	Alexandria Engineering Journal	6.8	M. Adel and M. Khader	√		https://doi.org/10.1016/j.aej.2023.10.003		√	√
32	Numerical simulation for COVID-19 model using a multidomain spectral relaxation technique	April, 2023	Symmetry	2.7	M. Adel, M. M. Khader, T. A. Assiri, and W. Kaleel	√		https://doi.org/10.3390/sym15040931		√	√
33	Approximate analytical solutions for the blood ethanol	June, 2023	AIMS Mathematics	2.2	M. Adel, M. M. Khader, H.	√		https://doi.org/10.3934/math.2023974		√	√

	concentration system and predator-prey equations by using variational iteration method				Ahmad and T. A. Assiri						
34	Studying and simulating the fractional Covid-19 model using an efficient spectral collocation approach	April, 2023	Fractal and fractional	5.4	Y. F. Ibrahim, S. E. Abd El-Bar, M. M. Khader and M. Adel	√		https://doi.org/10.3390/fractalfract7040307		√	√
35	Numerical solutions to the fractional-order wave equation	May, 2023	International Journal of Modern Physics C	1.9	M. M. Khader, I. Mustafa, M. Adel, and M. Ali	√		https://doi.org/10.1142/S0129183123500675		√	√
36	Implementation of an accurate method for the analysis and simulation of electrical R-L circuits	May, 2023	Mathematical Methods in the Applied Sciences	2.9	M. Adel, H. M. Srivastava, and M. M. Khader	√		https://doi.org/10.1002/mma.8062		√	√
37	Studying of the Covid-19 model by using the finite element method: Theoretical and numerical simulation	October, 2023	Soft Computing	4.1	M. Adel, W. Alhejili, M. M. Khader, K. Lotfy and A. A. El-Bary	√		https://doi.org/10.1007/s00500-023-09310-6		√	√
38	A modified global error minimization method for solving nonlinear Duffing-harmonic oscillators	January	AIMS Mathematics	2.2	Gamal M. Ismail, Maha M. El-Moshneb and Mohra Zayed		√	https://www.aimspress.com/article/doi/10.3934/math.2023023		√	√

39	Analytical technique for solving strongly nonlinear oscillator differential equations	July	Alexandria Engineering Journal	6.8	Gamal M. Ismail, Maha M. El-Moshneb and Mohra Zayed	√		https://doi.org/10.1016/j.aej.2023.05.030		√	√
40	Analytical and approximate solutions for fractional systems of nonlinear differential equations	October	European Journal of Pure and Applied Mathematics		H. R. Abdl-Rahim, H. Ahmad, Taher A. Nofal ans Gamal M. Ismail	√		https://doi.org/10.29020/nybg.ejpam.v16i4.4864		√	√
41	Computational simulations for solving nonlinear composite oscillation fractional	June	Journal of Ocean Engineering and Science	7.1	Gamal M. Ismail, A.M.S. Mahdy, Y.A. Amer, E.S.M. Youssef	√		https://doi.org/10.1016/j.joes.2022.06.029		√	√
42	A note on "On the classification of Landsberg spherically symmetric Finsler metrics	January	International Journal of Geometric Methods in Modern Physics	1.8	Salah Gomaa Elgendi	√		https://www.worldscientific.com/doi/abs/10.1142/S0219887823500962?journalCode=ijgmmp		√	√
43	On the existence of parallel one forms	March	International Journal of Geometric Methods in Modern Physics	1.8	Laszlo Kozma & Salah Gomaa Elgendi	√		https://www.worldscientific.com/doi/abs/10.1142/S0219887823501189?journalCode=ijgmmp		√	√
44	Exploration of heat and mass transport in oscillatory hydromagnetic nanofluid flow within two verticals	Dec. 2023	ZAMM-Journal of Applied Mathematics and Mechanics,	2.3	J. K. Singh, Hanumantha, S. Kolasani,, Syed M. Hussain	√		https://doi.org/10.1002/zamm.202300216	None	√	

	alternatively conducting surfaces		Volume 103, Issue 12, e202300216, (2023)								
45	Implication of radiation on the thermal behavior of a partially wetted dovetail fin using an artificial neural network	Nov. 2023	Case Studies in Thermal Engineering, Volume 51, 103552, **(2023)**	**6.8**	P Nimmy, KV Nagaraja, Pudhari Srilatha, K Karthik, G Sowmya, RSV Kumar, U. Khan, **Syed M. Hussain**, AS Hendy, M. R. Ali	√		https://doi.org/10.1016/j.csite.2023.103552	Post Publishing Award-2, Islamic University of Madinah, KSA	√	
46	Error analysis of zirconium and zinc oxides/kerosene oil-based hybrid nanofluid flow between rotating disks: An innovative case study	Nov. 2023	Case Studies in Thermal Engineering, Volume 51, 103549, **(2023)**	**6.8**	**Syed M Hussain,** M. Imtiaz, K. Bibi, S. Rehman, W. Jamshed, M. R. Eid, S. M El Din	√		https://doi.org/10.1016/j.csite.2023.103549	Post Publishing Award-2, Islamic University of Madinah, KSA	√	
47	Artificial neural network modeling of mixed convection viscoelastic hybrid nanofluid across a circular cylinder with radiation effect: case study	October. 2023	Case Studies in Thermal Engineering, Volume 50, 103487, (2023)	6.8	Syed M Hussain, R. Mahat, N.M. Katbar, I. Ullah, RS Varun Kumar, BC Prasannakumara, W. Jamshed, M.R. Eid, W.A. Khan, R. W Ibrahim, S. M El Din	√		https://doi.org/10.1016/j.csite.2023.103487	Post Publishing Award-2, Islamic University of Madinah, KSA	√	
48	Numerical computation of mixed convective entropy optimized in Darcy-Forchheimer flow of Cross	Sept. 2023	Tribology International	6.2	Syed M Hussain, U. Khan, A. Zaib, A. Ishak, I. E. Sarris	√		https://doi.org/10.1016/j.triboint.2023.108757	Post Publishing Award-2, Islamic	√	

	nanofluids through a vertical flat plate with irregular heat source/sink		Volume 187, 108757, (2023)						University of Madinah, KSA		
49	Thermal performance of hydromagnetic nanofluid flow within an asymmetric channel with arbitrarily conductive walls filled with Darcy-Brinkman porous medium	Sept. 2023	Journal of Magnetism and Magnetic Materials Volume 582, 15, 171034, **(2023)**	**2.7**	J. K. Singh, G. S. Seth, **Syed M. Hussain**	√		https://doi.org/10.1016/j.jmmm.2023.171034	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
50	Thermal case examination of inconstant heat source (sink) on viscous radiative Sutterby nanofluid flowing via a penetrable rotative cone	August 2023	Case Studies in Thermal Engineering, Volume 48, 103102, **(2023)**	**6.8**	T. Sajid, W. Jamshed, M.R. Eid, S. Algarni, T. Alqahtani, R. W Ibrahim, K. Irshad, Syed M Hussain, Sayed M El Din	√		https://doi.org/10.1016/j.csite.2023.103102	Deanship of Scientific Research at King Khalid University, under grant number RGP2/168/44.	√	
51	Chemical reaction and thermal characteristiecs of Maxwell nanofluid flow-through solar collector as a potential solar energy cooling application: A modified Buongiorno's model	August 2023	Energy & Environment, Volume 34, issue 5, pp. 1409-1432, (2023)	4.2	Syed M Hussain, W. Jamshed, R Safdar, F. Shahzad, N.A.A.M. Nasir, Ikram Ullah	√		https://doi.org/10.1177/0958305X221088113	None	√	

52	Flow inspection of micropolar nanofluids with motile gyrotactic microorganisms across symmetric channel in porous medium by quasi-linearization technique	July, 2023	Numerical Heat Transfer, Part B: Fundamentals, Volume, 85, Issue 1, pp. 58-75, **(2023)**	**1.3**	K. Ali, M.Bilal, M. Ashraf, V. Jamshed, S. Ahmad, Syed M Hussain	√		https://doi.org/10.1080/10407790.2023.2225739	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
53	Solar radiative and chemical reactive influences on electromagnetic Maxwell nanofluid flow in Buongiorno model	June 2023	Journal of Magnetism and Magnetic Materials Volume 576, 15, 170748, **(2023)**	**2.7**	F. Wang, W. Jamshed, R. W Ibrahim, N. S.E. Abdalla, A.A. Elmonem, **Syed M. Hussain**	√		https://doi.org/10.1016/j.jmmm.2023.170748	Deanship of Scientific Research at King Khalid University, KSA	√	
54	Application of the successive over relaxation method for analyzing the dusty flow over a surface subject to convective boundary condition	August 2023	Ain Shams Engineering Journal, Volume 14, Issue 8, 102044, (2023)	6.0	K. Ali, S. Ahmad, M. Aamir, W. Jamshed, A.A. Pasha, Syed M Hussain	√		https://doi.org/10.1016/j.asej.2022.102044	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
55	Inspection of hybrid nanoparticles flow across a nonlinear/linear stretching surface when heat sink/source and thermophoresis particle deposition impacts are significant	2023	International Journal of Modern Physics B, Vol. 37, No. 01, 2350008 (2023)	1.7	GK Ramesh, JK Madhukesh, Umair Khan, Syed M Hussain, Ahmed M Galal	√		https://doi.org/10.1142/S021797922350008X	None	√	

56	Solute transport exponentially varies with time in an unsaturated zone using finite element and finite difference method	2023	International Journal of Modern Physics B Vol. 37, No. 09, 2350089 (2023)	1.7	J Rekha, SP Suma, B Shilpa, U Khan, Syed M Hussain, A Zaib, AM Galal	√		https://doi.org/10.1142/S0217979223500893	None	√	
57	Solar-HVAC thermal investigation utilizing (Cu-AA7075/ C6H9NaO7) MHD-driven hybrid nanofluid rotating flow via second-order convergent technique: a novel engineering study	2023	Arabian Journal for Science and Engineering, Volume 48, 3301–3322 (2023)	2.9	Syed M Hussain, Wasim Jamshed, Mohamed R Eid	√		https://doi.org/10.1007/s13369-022-07140-6	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
58	Thermal energy analysis of multi-walled carbon nanotubes-Fe3O4/H2O flow over non-uniformed surface with Darcy–Forchheimer model	June 2023	Energy & Environment, June 2023,	4.2	C. Lotfi, F. Redouane, C.D. Zineb, W. Jamshed, M.R. Eid, R.W. Ibrahim, S.S.P.M. Isa, H. Alqahtani, Syed M Hussain	√		https://doi.org/10.1177/0958305X231183689	None	√	
59	X-ray Photoelectron Spectroscopy and Tunable Photoluminescence Study of Gold Nanoparticles Embedded in the PVA Films	2023	Luminescence, (2023)	2.61	A. Gautam, R.S. Singh, P. Gautam, Syed M Hussain, VSK Reddy	√		https://doi.org/10.1002/bio.4607	√	√	
60	Thermal scrutinization of magetohydrodynamics CuO engine oil nanofluid flow across a horizontal surface via Koo–Kleinstreuer–Li modeling: A thermal case study	2023	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of	2.4	Syed M Hussain, Faisal Shahzad, Wasim Jamshed, Mohammad Kalimuddin Ahmad, Zulfiqar Rehman, Imran Ullah	√		https://doi.org/10.1177/09544089221131147	√	√	

			Process Mechanical Engineering, Volume 237, No. 5, 1935-1948, (2023)		(٠٣٢) كلية العلوم					
61	Entropy generation and thermal performance of Williamson hybrid nanofluid flow used in solar aircraft application as the main coolant in parabolic trough solar collector	January 2023	Waves in Random and Complex Media, (2023)	4.05	Syed M Hussain	√		https://doi.org/10.1080/17455030.2022.2110624	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
62	Numerical assessment of a Sutterby hybrid nanofluid over a stretching sheet with a particle shape factor	January 2023	Waves in Random and Complex Media, (2023)	4.05	Syed M Hussain	√		https://doi.org/10.1080/17455030.2023.2166148	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
63	Thermal characterization of heat source (sink) on hybridized (Cu–Ag/EG) nanofluid flow via solid stretchable sheet	April 2023	Open Physics, Volume 21, No. 20220245, (2023)	1.9	Syed M Hussain, M.R. Eid, M Prakash, Wasim Jamshed, A. Khan, Haifa Alqahtani	√		https://doi.org/10.1515/phys-2022-0245	Research Group Prog-1/804, Islamic University of Madinah, KSA	√	
64	Almost unbiased Liu-type estimator for Tobit regression and its application	Sep.	Communications in Statistics - Simulation and Computation	0.9	Tarek Mhmoud Omara	√		https://doi.org/10.1080/03610918.2023.2257006		√	√

65	Measurement and analysis of the religious and spiritual factors of quality of life of residents of Islamic cities	Apr.	Interdisciplinaria	0.7	Tarek Mhmoud Omara, Khaled A. Harby	√		https://doi.org/10.16888/interd.2023.40.1.24	Islamic University	√	√
66	Primitivoids of Curves in Minkowski Plane.	January	AIMS Mathematics 8(1) (2023), 2386-2406.		Yanlin Li1, A. A. Abdel-Salam and M. Khalifa Saad		√	https://www.aimspress.com/article/doi/10.3934/math.2023123		√	√
67	On the Harmonic Evolute of Timelike Hasimoto Surfaces in Lorentz-Minkowski Space	20(12) (2023), 2350206	International Journal of Geometric Methods in Modern Physics (IJGMMP)		M. Khalifa Saad	√		https://doi.org/10.1142/S0219887823502067		√	√
68	Investigation of Affine Factorable Surfaces in Pseudo-Galilean Space	22(Art.#73) (2023), 666-673.	WSEAS TRANSACTIONS on MATHEMATICS Doi:		MOHAMED SAAD, HOSSAM ABDEL-AZIZ, HAYTHAM ALI	√		https://doi.org/10.37394/23206.2023.22.73		√	√
69	Geometry of Admissible Curves of Constant-Ratio in Pseudo-Galilean Space	April	Int. J. Anal. Appl.		M. Khalifa Saad, H. S. Abdel-Aziz, Haytham A. Ali			https://etamaths.com/index.php/ijaa/article/view/2871		√	√
70	On the Equiform Geometry of the Involute-evolute Curve Couple in Hyperbolic and de Sitter Spaces	20(2) (2023), Art.#6, 20 PP	Aust. J. Math. Anal. Appl.		M. KHALIFA SAAD, H. S. ABDEL-AZIZ AND A. A. ABDEL-SALAM			https://ajmaa.org/searchroot/files/pdf/v20n2/v20i2p6.pdf		√	√
71	Normal Surfaces along a Curve on a Surface in Euclidean 3-Space	April	Int. J. Anal. Appl.		M. Khalifa Saad, R. A. Abdel-Baky	√		https://doi.org/10.28924/2291-8639-21-2023-119		√	√

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72	A New Extension of Power Hazard Distribution with Applications	Journal of Statistics Applications & Probability, 2023, 12(3), 1255-1267	Journal of Statistics Applications & Probability	0.187	Abdelfattah Mustafa and M. I. Khan	yes		extension://bfdogplmndidlpjfhoijckpakkdjkkil/pdf/viewer.html?file=https%3A%2F%2Fwww.naturalspublishing.com%2Ffiles%2Fpublished%2F42222f292kwqtm.pdf http://dx.doi.org/10.18576/jsap/120331			Yes
73	Improving the Performance of a Series-Parallel System Based on Lindley Distribution	Applied Mathematics & Information Sciences, 2023, 17(5), 915-925	*Applied Mathematics & Information Sciences*	1.232	Abdelfattah Mustafa, M. I. Khan and Maher. A. Alraddadi	Yes		https://digitalcommons.aaru.edu.jo/cgi/viewcontent.cgi?article=3329&context=amis			Yes
74	Powered inverse Rayleigh distribution using DUS transformation. **21**:61	July	*International Journal of Analysis and Applications*	0.21	Khan, M. I. and Mustafa, A	First		https://doi.org/10.28924/2291-8639-21-2023-61	Deanship of Scientific Research (Post Publication -2)		Scopus
75	Derivation of an approximate formula of the Rabotnov fractional-exponential kernel fractional derivative and applied for numerically	November	AIMS Mathematics	2.2	Ahmed F. S. Aboubakr, Gamal M. Ismail, Mohamed M. Khader, Mahmoud A. E.	√		https://aimspress.com/article/doi/10.3934/math.20231569?viewType=HTML		ISI	

	solving the blood ethanol concentration system				Abdelrahman, Ahmed M. T. AbdEl-Bar and Mohamed Adel						
76	Irreversibility analysis of hydromagnetic nanofluid flow past a horizontal surface via Koo-Kleinstreuer-Li (KKL) model	July, 2023	Heliyon Volume, 9, e17668, (2023)	4.0	Syed M Hussain, F. Shahzad, N. M. Katbar, W. Jamshed, M.R. Eid, Alwaleed Kamel, Mohammad Akram, Nor Ain Azeany Mohd Nasir, Rabha W Ibrahim, Agaeb Mahal Alanzi, Sayed M El Din	Yes		https://doi.org/10.1016/j.heliyon.2023.e17668	Research Group Prog-1/763, Islamic University of Madinah, KSA	Yes	
77	Significance of ternary hybrid cross bio-nanofluid model in expanding/contracting cylinder with inclined magnetic field	2023	Frontiers in Materials 10, 1242085, (2023)	4.0	Ibrahim Alraddadi, Assad Ayub, Syed M Hussain, Umair Khan, Syed Zahir, Ahmed M Hassan	Yes		https://www.frontiersin.org/articles/10.3389/fmats.2023.1242085/full	None	Yes	
78	Modelling the dynamics of acute and chronic hepatitis B with optimal control	October	Scientific Reports	4.6	Tahir Khan, Fathalla A. Rihan & Hijaz Ahmad	First		https://doi.org/10.1038/s41598-023-39582-9	UAE University	Yes	Yes
79	Caputo Time Fractional Model Based on Generalized Fourier's and Fick's Laws for	October	FRACTALS-Complex Geometry Patterns and	4.7	Saqib Murtaza, Zubair Ahmad, M. Daher Albalwi, Z. Akhtar,	First		https://doi.org/10.1142/S0218348X23401631	None	Yes	Yes

	Brinkman-type Fluid: Exact Solution via Integral Transform. Fractals. 2023 Jun 16.		Scaling in Nature and Society		Muhammad Asad Khan, Hijaz Ahmad, and Dumitru Baleanu						
80	Viscoplastic Hybrid Nanofluids Flow Through Vertical Stenosed Artery	October	BioNanoScience	3.0	Hanumesh Vaidya, Kerehalli V. Prasad, D. Tripathi, R. Choudhari, Hanumantha & Hijaz Ahmad		Second	https://doi.org/10.1007/s12668-023-01213-y	None	Yes	Yes
81	Thermal analysis of transverse fluid flow in a gradient porous media with the exponentially boundary conditions.	October	Modern Physics Letters B	1.9	Payam Jalili, A. Mirzaei, Bahram Jalili, Amirali Shateri, D. D. Ganji, Dilber U. Ozsahin, and Hijaz Ahmad		Second	https://www.worldscientific.com/doi/10.1142/S0217984923502299	None	Yes	Yes
82	Novel topological, non-topological, and more solitons of the generalized cubic p-system describing isothermal flux.	December	Optical and Quantum Electronics	3.0	Emad A. Az-Zo'bi, Kallekh Afef, Riaz Ur Rahman, Lanre Akinyemi, Ahmet Bekir, Hijaz Ahmad, Mohammad A. Tashtoush & Ibrahim Mahariq	First		https://doi.org/10.1007/s11082-023-05642-7	King Khalid University	Yes	Yes
83	Some new notions of fractional Hermite-Hadamard type inequalities involving	Novembe r	Journal of Mathematics and		Hijaz Ahmad, R. B. Khokhar, M. Suleman, M. Tariq,	First		http://dx.doi.org/10.22436/jmcs.033.01.03	King Mongkut's University of	Yes	Yes

	applications to the physical sciences		Computer Science		S. K. Ntouyas, J. Tariboon				Technology North Bangkok		
84	Implementation of optical soliton behavior of the space–time conformable fractional Vakhnenko–Parkes equation and its modified model		Optical and Quantum Electronics	3.0	S. M. Mabrouk, Hadi Rezazadeh, Hijaz Ahmad, A. S. Rashed, Ulviye Demirbilek and Khaled A. Gepreel	First		https://doi.org/10.1007/s11082-023-05553-7	None	Yes	Yes
85	Soliton solutions, stability, and modulation instability of the (2+1)-dimensional nonlinear hyperbolic Schrödinger model		Optical and Quantum Electronics	3.0	M. Adel, Kalim U. Tariq, Hijaz Ahmad, S. M. Raza Kazmi	First		https://doi.org/10.1007/s11082-023-05570-6	Islamic University of Madinah	Yes	Yes
86											

.Is there other research for 2023 that was not included in the previous table? Please mention the reasons if the answer is yes

المملكة العربية السعودية
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النشاط البحثي لأعضاء
هيئة التدريس بقسم الرياضيات
خلال العام الميلادي 2024 م

	Article Title	Journal	Authors	Article URL	Indexed (ISI/Scopus)
1	A numerical approach to study the energy dissipation effects on Couette–Hartmann flow of a nanoliquid within an asymmetrical channel	ZAMM-Journal of Applied Mathematics and Mechanics, e202400408, **2024**	J.K. Singh, S. Mohiuddin, S. Kolasani, **Syed M. Hussain**	https://doi.org/10.1002/zamm.202400408	ISI and Scopus
2	Irreversibility analysis of cross-flow in Eyring–Powell nanofluid over a permeable deformable sheet with Lorentz forces	ZAMM-Journal of Applied Mathematics and Mechanics, e202300835, **2024**	U. Khan, A.M.Obalalu, A Zaib, A. Ishak, **Syed M. Hussain**, JK Madhukesh, LF Seddek, AM Galal	https://doi.org/10.1002/zamm.202300835	ISI and Scopus
3	Stability scrutinization of a non-Newtonian (Williamson) ternary hybrid nanofluid past a stretching/shrinking sheet	ZAMM-Journal of Applied Mathematics and Mechanics, e202300926, **2024,**	FN Jamrus, A Ishak, I Waini, U Khan, **Syed M. Hussain**, J. K. Madhukesh, AM Galal	https://doi.org/10.1002/zamm.202300926	ISI and Scopus
4	Thermal conductivity evaluation of magnetized non-Newtonian nanofluid and dusty particles with thermal radiation	High Temperature Materials and Processes, Vol. 43, Issue 1, p. 20240063, **2024**	**Syed M. Hussain**, U. Khan, AM Obalalu, A Zaib	https://doi.org/10.1515/htmp-2024-0063	ISI and Scopus
5	Electromagnetic control and heat transfer enhancement in exothermic reactions experiencing current density: The study preventing thermal explosions in reactive flow	Applied Rheology, Vol. 34, Issue 1, **2024**	H Gasmi, AO Akindele, AM Obalalu, AA Usman, U Khan, Y Yilmaz, M Taiwo, **Syed M. Hussain,** N. Nizampatnam	https://doi.org/10.1515/arh-2024-0020	ISI and Scopus
6	Numerical simulation of a forced circulation solar water heating system	Scientific Reports 14, 28999, **2024**	A. Remlaoui, D Nehari, B Kada, NAAM Nasir, A Abd-Elmonem, N Alhubieshi, FAA ElSeabee, **Syed M. Hussain**	https://doi.org/10.1038/s41598-024-80576-y	ISI and Scopus

7	Computational role of the heat transfer phenomenon in the reactive dynamics of catalytic nanolubricant flow past a horizontal microchannel	Applied Rheology, Vol. 34, Issue 1, pp. 20240017, **2024**	A Roja, U Khan, K Venkadeshwaran, JK Madhukesh, R Kumar, A Ishak, **Syed M Hussain**	https://doi.org/10.1515/arh-2024-0017	ISI and Scopus
8	Thermal radiation, Soret and Dufour effects on MHD mixed convective Maxwell hybrid nanofluid flow under porous medium: a numerical study	International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 34, Issue 10, pp. 3924-3952, **2024**	J Jayaprakash, V Govindan, SS Santra, SS Askar, A Foul, S Nandi, **Syed M. Hussain**	https://doi.org/10.1108/HFF-03-2024-0229	ISI and Scopus
9	Implementation of stacking regressor model on the flow induced by TiO_2-H_2O and Ti_6Al_4V-H_2O nanofluid with waste discharge concentration	ZAMM-Journal of Applied Mathematics and Mechanics, e202300796, **2024**	JK Madhukesh, M Fareeduddin, Chandan K, U Khan, GA Al-Tref, **Syed M Hussain**, KV Nagaraja, R Kumar	https://doi.org/10.1002/zamm.202300796	ISI and Scopus
10	Stokes' second problem exact solution for hybrid nanofluid flow along an exponentially accelerating vertical surface	ZAMM-Journal of Applied Mathematics and Mechanics, e202400248, **2024**	S Arulmozhi, K Sukkiramathi, SS Santra, S Nandi, K Vajravelu, B Kumbhakar, **Syed M Hussain**	https://doi.org/10.1002/zamm.202400248	ISI and Scopus
11	Thermosolutal Marangoni convective flow of MHD tangent hyperbolic hybrid nanofluids with elastic deformation and heat source	Open Physics, Vol. 22, no. 1, 20240082, **2024**	X. Zhou, MA Qureshi, N Khan, W Jamshed, SSPM Isa, N Balakrishnan, **Syed M Hussain**	https://doi.org/10.1515/phys-2024-0082	ISI and Scopus
12	Model development and heat transfer characteristics in renewable energy systems conveying hybrid nanofluids subject to nonlinear thermal radiation	Multidiscipline Modeling in Materials and Structures, Vol. 20, Issue 6, pp. 1328-1342, **2024**	EO Fatunmbi, AM Obalalu, U Khan, **Syed M Hussain**, Taseer Muhammad	https://doi.org/10.1108/MMMS-05-2024-0128	ISI and Scopus
13	Computational role of homogeneous–heterogeneous chemical reactions and a mixed convective ternary hybrid nanofluid in a vertical porous microchannel	High Temperature Materials and Processes, Vol. 43, Issue 1, 20240057, **2024**	A Roja, R Saadeh, JK Madhukesh, MD Shamshuddin, KV Prasad, U Khan, C Prakash, **Syed M. Hussain**	https://doi.org/10.1515/htmp-2024-0057	ISI and Scopus

14	Heat transfer characteristics in a non-Newtonian (Williamson) hybrid nanofluid with Hall and convective boundary effects	High Temperature Materials and Processes, Vol. 43, Issue 1, 20240056, **2024**	LF Alharbi, R Saadeh, A Ishak, U Khan, **Syed M. Hussain**, JK Madhukesh, Y Yılmaz, A Zaib	https://doi.org/10.1515/htmp-2024-0056	ISI and Scopus
15	Influence of non-linear thermal radiation on the dynamics of homogeneous and heterogeneous chemical reactions between the cone and the disk	High Temperature Materials and Processes, Vol. 43, Issue 1, 20240052, **2024**	S Manjunatha, R Saadeh, BA Kuttan, TN Tanuja, A Zaib, U Khan, A Ishak, **Syed M. Hussain**	https://doi.org/10.1515/htmp-2024-0052	ISI and Scopus
16	On the thermal performance of a three-dimensional cross-ternary hybrid nanofluid over a wedge using a Bayesian regularization neural network approach	High Temperature Materials and Processes, Vol. 43, Issue 1, 20240051, **2024**	SZH Shah, S Khan, R Saadeh, HA Wahab, JK Madhukesh, U Khan, A Ishak, **Syed M. Hussain**	https://doi.org/10.1515/htmp-2024-0051	ISI and Scopus
17	Leveraging artificial neural networks approach for thermal conductivity evaluation in porous rectangular wetted fins filled with ternary hybrid nanofluid	Journal of Radiation Research and Applied Sciences, Vol.17, Issue 4, 101125, **2024**	TN Tanuja, S Manjunatha, HS Migdadi, R Saadeh, A Qazza, U Khan, **Syed M. Hussain**, Y Yılmaz, AM Galal	https://doi.org/10.1016/j.jrras.2024.101125	ISI and Scopus
18	Thermal conductivity evaluation of radiative entropy optimized cross-flow in Eyring Powell nanofluid past a permeable deformable sheet: the case of solar-powered ship application	Nano**, 2024**	U Khan, AM Obalalu, A Zaib, A Ishak, G A Al-Turef, JK Madhukesh, W Saleh, **Syed M. Hussain**	https://doi.org/10.1142/S1793292024501017	ISI and Scopus
19	Computational Study and Application of the Hamilton and Crosser Model for Ternary Hybrid Nanofluid Flow Past a Riga Wedge with Heterogeneous Catalytic Reaction	Nano**, 2024**	GA Al-Turef, AM Obalalu, W Saleh, SHAM Shah, A Darvesh, U Khan, A Ishak, P Adegbite, OB Ojewola, **Syed M. Hussain**	https://doi.org/10.1142/S1793292024501054	ISI and Scopus

20	Radiative double-diffusive mixed convection flow in a non-Newtonian hybrid nanofluid over a vertical deformable sheet with thermophoretic particle deposition effects	Nano**, 2024**	LF Alharbi, U Khan, GA Al-Toref, A Zaib, SHAM Shah, A Ishak, W Salih, **Syed M. Hussain**	https://doi.org/10.1142/S1793292024501030	ISI and Scopus
21	Neural network algorithms of a curved riga sensor in a ternary hybrid nanofluid with chemical reaction and Arrhenius kinetics	Journal of Radiation Research and Applied Sciences, Volume 17, Issue 4, 101078, **2024**	GK Ramesh, R Saadeh, JK Madhukesh, A Qazza, U Khan, A Zaib, **Syed M. Hussain**, AM Obalalu, Ahmed M Abed	https://doi.org/10.1016/j.jrras.2024.101078	ISI and Scopus
22	Computational analysis of nanoparticles and waste discharge concentration past a rotating sphere with Lorentz forces	Applied Rheology, Vol. 34, No. 1, pp. 20240012, **2024**	P Nimmy, AM Obalalu, KV Nagaraja, JK Madhukesh, U Khan, A Ishak, D Sriram, **Syed M. Hussain**, R Kumar, AM Abed	https://doi.org/10.1515/arh-2024-0012	ISI and Scopus
23	A comparative study of exact and neural network models for wave-induced multiphase flow in nonuniform geometries: Application of Levenberg–Marquardt neural networks	ZAMM-Journal of Applied Mathematics and Mechanics, Vol. 104, Issue 10, pp. e202400210, **2024**	**Syed M Hussain**, Nouman Ijaz, Sami Dhahbi, Najma Saleem, Ahmad Zeeshan	https://doi.org/10.1002/zamm.202400210	ISI and Scopus
24	Heat and Mass Transfer Analysis of Casson-Based Hybrid Nanofluid Flow in the Presence of an Aligned Magnetic Field: An Application Towards Mechanical Engineering,	Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, **2024**	TN Tanuja, L Kavitha, SVK Varma, VCC Raju, CK Ganteda, M Obulesu, W Jamshed, MR Eid, **Syed M Hussain**	https://doi.org/10.1177/23977914241248546	ISI and Scopus

25	Features of melting heat transfer in magnetized squeezing radiative flow of ternary hybrid nanofluid	Case Studies in Thermal Engineering, Volume 61, 104842, **2024**	H Gasmi, A.M. Obalalu, P Kaswan, U Khan, O.B. Ojewola, A.M. Abdul Yekeen, A Ishak, **Syed M. Hussain**, Laila F. Seddek, Ahmed M. Abed	https://doi.org/10.1016/j.csite.2024.104842	ISI and Scopus
26	Impact of non-linear heat source and magnetic field on the Carreau nanofluid Marangoni convective flow–a numerical investigation	International Journal of Modelling and Simulation, March **2024**	A. Alhushaybari, **Syed M Hussain**, M.E.E. Abulhassan, A.M. Alharthi, K. Ali, S. Ahmad, W. Jamshed	https://doi.org/10.1080/02286203.2024.2320612	ISI and Scopus
27	Investigating radiative heat transfer, varied wall thickness, and slip effects on Casson nanofluid flow over a stretched sheet with heat source	International Journal of Modelling and Simulation, March **2024**	PR Sekhar, S Sreedhar, PV Kumar, SM Ibrahim, C Ganteda, **Syed M Hussain**, W Jamshed, A Amjad, K Markowska	https://doi.org/10.1080/02286203.2024.2345256	ISI and Scopus
28	Honeycomb-configured dissipative nanofluid flow within a squeezed channel with entropy generation: regression and numerical evaluations	International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 34 No. 6, pp. 2429-2454, **2024**	**Syed M. Hussain**, Rohit Sharma, Manoj Kumar Mishra, Jitendra Kumar Singh	https://doi.org/10.1108/HFF-12-2023-0739	ISI and Scopus
29	A Thermal Energy Analysis of Binary (Go-Co/H2O) and Ternary (Go-Co-Zro2/H2O) Nanofluids Based on Characterization and Thermal Performance	Energy and Environment, **2024**	**Syed M Hussain,** S. Ahmad, K. Ali, M.K Al Mesfer, M. Danish, W. Jamshed, K. Irshad, H. Ahmad	https://doi.org/10.1177/0958305X241256038	ISI and Scopus

30	Computational fluid dynamics of flow boiling and conjugate heat transfer characteristics in a mini/micro-channel printed circuit steam generator	Thermal Science and Engineering Progress, 102652, ***2024***	M.U.K. Mughal, K. Waheed, M.I. Sadiq, A.H. Molla, U. Khan, A. Ishak, T. Muhammad,L.F. Seddek, A.M. Abed, G.A Al-Turif, **Syed M. Hussain**	https://doi.org/10.1016/j.tsep.2024.102652	ISI and Scopus
31	Application of constant proportional Caputo (CPC) fractional derivative for natural convective Casson nanofluid flow on an infinite cylinder	Numerical Heat Transfer, Part B: Fundamentals, March **2024**	X. Xin, R. Safdar, W. Jamshed, **Syed M. Hussain**, A. Alhushaybari, A. M. Alharthi	https://doi.org/10.1080/10407790.2024.2327497	ISI and Scopus
32	Thermal radiative and Hall current effects on magneto-natural convective flow of dusty fluid: Numerical Runge–Kutta–Fehlberg technique	Numerical Heat Transfer, Part B: Fundamentals, March **2024**	SM. Isa, R. Mahat, N.M. Katbar, BS. Goud, I. Ullah, W. Jamshed, M.R. Eid, H. Alqahtani, **Syed M Hussain**	https://doi.org/10.1080/10407790.2024.2318452	ISI and Scopus
33	Numerical aggregation for dissipative flow of hybrid nanomaterial: Darcy Forchheimer model	Ain Shams Engineering Journal, January **2024**	M. Yasir, M. Khan, **Syed M. Hussain**, H Khan, S Saleem	https://doi.org/10.1016/j.asej.2024.102628	ISI and Scopus
34	Thermal Case Study of Magnetic Radiative Flow Impacts on Newtonian Nanofluid Over a Stretchable Plate in Absorbent: Box Approach	Case Studies in Thermal Engineering, 104539, **2024**	**Syed M Hussain**, Z.E. Shams, Q. Rubbab, NAAM Nasir, A. Abd-Elmonem, N.S.E. Abdalla, MA Qureshi, H. Ahmad	https://doi.org/10.1016/j.csite.2024.104539	ISI and Scopus
35	Aspects of superior photocatalytic dye degradation and adsorption efficiency of reduced graphene oxide multiwalled carbon nanotubes with modified ZnO-Al2O3 nanocomposites	Journal of Environmental Chemical Engineering, Volume 12, Issue 2, 112461, April **2024**	A.A. Wani, R.A. Rather, N. Shaari, U. Khan, T. Muhammad, **Syed M. Hussain**, A.M. Abed	https://doi.org/10.1016/j.jece.2024.112461	ISI and Scopus
36	Heat transfer in three dimensional micropolar based nanofluid with electromagnetic waves in the presence of eukaryotic microbes	Alexandria Engineering Journal, Volume 94, **May 2024**	**Syed M. Hussain**, A. Majeed, N. Ijaz, ASA Omer, I Khan, M Medani, N.B. Khedher	https://doi.org/10.1016/j.aej.2024.03.034	ISI and Scopus

37	Computational examination of heat and mass transfer of nanofluid flow across an inclined cylinder with endothermic/exothermic chemical reaction	Case Studies in Thermal Engineering, Volume 57, 104336, May **2024**	K Karthik, P. Srilatha, JK Madhukesh, U. Khan, BC Prasannakumara, R. Kumar, A. Ishak, **Syed M. Hussain**, T. Muhammad, MM.M Abdou	https://doi.org/10.1016/j.csite.2024.104336	ISI and Scopus
38	Thermal performance of a motile-microorganism within the two-phase nanofluid flow for the distinct non-Newtonian models on static and moving surfaces	Case Studies in Thermal Engineering, Volume 58, 104392, June **2024**	H Gasmi, AM Obalalu, AO Akindele, SA Salaudeen, U. Khan, A Ishak, A. Abbas, T. Muhammad, **Syed M. Hussain**, A. M Abed	https://doi.org/10.1016/j.csite.2024.104392	ISI and Scopus
39	Mathematical analysis and numerical simulations of the piecewise dynamics model of Malaria transmission: A case study in Yemen	AIMS Math	Aldwoah, KA; Almalahi, Mohammed A; Abdulwasaa, Mansour A; Shah, Kamal; Kawale, Sunil V; Awadalla, Muath; Alahmadi, Jihan;	https://www.aimspress.com/article/doi/10.3934/math.2024216	ISI
40	Stability and Numerical Analysis of a Coupled System of Piecewise Atangana–Baleanu Fractional Differential Equations with Delays	Qualitative Theory of Dynamical Systems	Almalahi, Mohammed A; Aldwoah, KA; Shah, Kamal; Abdeljawad, Thabet;	https://link.springer.com/content/pdf/10.1007/s12346-024-00965-6.pdf	ISI
41	New soft rough approximations via ideals and its applications	AIMS Mathematics	Alharbi, Rehab; Abbas, SE; El-Sanowsy, E; Khiamy, HM; Aldwoah, KA; Ibedou, Ismail;	https://www.aimspress.com/article/doi/10.3934/math.2024484	ISI
42	Symmetry analysis for nonlinear fractional terminal system under w-Hilfer fractional derivative in different weighted Banach spaces	AIMS Math.	Aldwoah, KA; Almalahi, Mohammed A; Shah, Kamal; Awadalla, Muath; Egami, Ria H; Abuasbeh, Kinda;	https://www.aimspress.com/article/doi/10.3934/math.2024576	ISI
43	Dynamics analysis of dengue fever model with harmonic mean type under fractal-fractional derivative	AIMS Mathematics	Aldwoah, Khaled A; Almalahi, Mohammed A; Shah, Kamal; Awadalla, Muath; Egami, Ria H;	https://www.aimspress.com/article/doi/10.3934/math.2024676	ISI

44	Criteria of existence and stability of an n-coupled system of generalized Sturm-Liouville equations with a modified ABC fractional derivative and an application to the SEIR influenza epidemic model	AIMS Mathematics	Aly, Elkhateeb S; Almalahi, Mohammed A; Aldwoah, Khaled A; Shah, Kamal;	https://www.aimspress.com/article/doi/10.3934/math.2024691	ISI
45	Analytical study of a modified-ABC fractional order breast cancer model	Journal of Applied Mathematics and Computing	Aldwoah, Khaled A; Almalahi, Mohammed A; Hleili, Manel; Alqarni, Faez A; Aly, Elkhateeb S; Shah, Kamal;	https://link.springer.com	ISI
46	Analyzing a Dynamical System with Harmonic Mean Incidence Rate Using Volterra–Lyapunov Matrices and Fractal-Fractional Operators	Fractal and Fractional	Riaz, Muhammad; Alqarni, Faez A; Aldwoah, Khaled; Birkea, Fathea M Osman; Hleili, Manel;	https://doi.org/10.3390/fractalfract8060321	ISI
47	Stochastic wave solutions of fractional Radhakrishnan–Kundu–Lakshmanan equation arising in optical fibers with their sensitivity analysis	Journal of Optics	Alqahtani, Awatif Muflih; Akram, Sonia; Ahmad, Jamshad; Aldwoah, KA; Rahman, Mati ur;	https://colab.ws/articles	ISI
48	Existence, Uniqueness, and Stability of a Nonlinear Tripled Fractional Order Differential System	Fractal and Fractional	Madani, Yasir A; Rabih, Mohammed Nour A; Alqarni, Faez A; Ali, Zeeshan; Aldwoah, Khaled A; Hleili, Manel;	https://www.mdpi.com/2	ISI
49	Soliton solutions and sensitive analysis to nonlinear wave model arising in optics	Physica Scripta	Lu, Wenjie; Ahmad, Jamshad; Akram, Sonia; Aldwoah, Khaled A;	https://iopscience.iop.or	ISI
50	Novel hybrid waves solutions of Sawada–Kotera like integrable model arising in fluid mechanics	Alexandria Engineering Journal	Saber, Hicham; Alqarni, Faez A; Aldwoah, Khaled A; Hashim, Hussam E; Saifullah, Sayed; Hleili, Manel;	https://doi.org/10.1016/j	ISI
51	Exploring Solitons Solutions of a (3+ 1)-Dimensional Fractional mKdV-ZK Equation	Fractal and Fractional	Hamza, Amjad E; Osman, Osman; Sarwar, Muhammad Umair; Aldwoah, Khaled; Saber, Hicham; Hleili, Manel;	https://doi.org/10.3390/f	ISI

52	Stochastic analysis and soliton solutions of the Chaffee–Infante equation in nonlinear optical media	Boundary Value Problems	Kamel, Alwaleed; Louati, Hanen Yossef; Aldwoah, Khaled; Alqarni, Faez; Almalahi, Mohammed; Hleili, Manel;	https://doi.org/10.1186/s	ISI
53	Mathematical analysis and optimal control of age-structured social interaction model with law enforcement	Mathematical Methods in the Applied Sciences	Kumar, Manoj; Dhama, Soniya; Alqarni, Faez A; Abbas, Syed; Aldwoah, Khaled A;	https://onlinelibrary.wile	ISI
54	Investigating fractal fractional PDEs, electric circuits, and integral inclusions via (ψ, ϕ)-rational type contractions	Scientific Reports	Aldwoah, Khaled; Shah, Syed Khayyam; Hussain, Sadam; Almalahi, Mohammed A; Arko, Yagoub AS; Hleili, Manel;	https://doi.org/10.1038/s	ISI
55	Exploring Soliton Solutions and Chaotic Dynamics in the (3+ 1)-Dimensional Wazwaz–Benjamin–Bona–Mahony Equation: A Generalized Rational Exponential Function Approach	Fractal and Fractional	Hamza, Amjad E; Suhail, Muntasir; Alsulami, Amer; Mustafa, Alaa; Aldwoah, Khaled; Saber, Hicham;	https://doi.org/10.3390/f	ISI
56	Modeling Ebola Dynamics with a Φ-Piecewise Hybrid Fractional Derivative Approach	Fractal and Fractional	Alraqad, Tariq; Almalahi, Mohammed A; Mohammed, Naglaa; Alahmade, Ayman; Aldwoah, Khaled A; Saber, Hicham;	https://www.mdpi.com/2	ISI
57	The effects of magnetic/nonmagnetic hybrid nanoparticles on the dynamic of Boger fluid over a coaxial disk	Mechanics of Time-Dependent Materials	Ali, Bagh; Habib, Danial; Siddique, Imran; Saif Aldien, M; Aldwoah, Khaled A; Salamat, Nadeem; Ma, Binjian;	https://doi.org/10.1007/s	ISI
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160	Lorentz force and solar energy case study on CNTs and Pollytetrafluoroethylene (PTFE) paraffin oil-based hybrid nanofluid flow through a porous divergent/convergent channel	Case Studies in Thermal Engineering	Amin, Sahrish, Ikram Ullah, Saira Shukat, Marouan Kouki, Hijaz Ahmad, Mohammad Mahtab Alam, and Hassan Khan	https://doi.org/10.1016/j.csite.2024.104378	ISI and Scopus
161	Numerical analysis of inclined magnetic force impact on cross liquid flowing with widening shallow and heat generating	International Journal of Modelling and Simulation	Hussain, Syed M., Nek Muhammad Katbar, Hijaz Ahmad, Ayesha Amjad, Sawera Batool, and Assmaa Abd-Elmonem	https://doi.org/10.1080/02286203.2024.2338581	ISI and Scopus
162	Zada L, Ali N, Jamshed W, Iqbal A, Hussain SM, Ahmad H. Analyzing fractional effects on solutions of the generalized perturbed Zakharov-Kuznetsov equation using a residual series method with Caputo derivatives	International Journal of Modelling and Simulation	Zada, Laiq, Nasir Ali, Wasim Jamshed, Amjad Iqbal, Syed M. Hussain, and Hijaz Ahmad.	https://doi.org/10.1080/02286203.2024.2343171	ISI and Scopus
163	Thermal Attributes of Sodium Alginate (Na. C6H7O6) based Binary and Ternary Hybrid Nanofluids under Activation Energy and Induced Magnetic Field Environment	Case Studies in Thermal Engineering	Li, Shuguang, Yuchi Leng, Gulnaz Atta, Sohail Ahmad, Kashif Ali, Sahar Ahmed Idris, and Hijaz Ahmad	https://doi.org/10.1016/j.csite.2024.104449	ISI and Scopus

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166	The application of cosine similarity measures with Laplacian energy to q-rung orthopair fuzzy graphs in decision-making problems	AIP Advances	Atheeque A, Mohamed, Sharief Basha S, Nune Pratyusha, C. Raghavendra Reddy, Md Nur Alam, Hijaz Ahmad, and Nainaru Tarakaramu.	https://doi.org/10.1063/5.0202907	ISI and Scopus
167	Melting Thermal Process in Buoyancy Driven Radiated Flow of (MoS2-SiO2-Au)/H2O near the Stagnant Point under Mixed Convection	Case Studies in Thermal Engineering	Said, Lotfi Ben, Warisha Gul, Zafar Mahmood, Mutasem Z. Bani-Fwaz, Hijaz Ahmad, Sami Ullah Khan, and Walid Aich	https://doi.org/10.1016/j.csite.2024.104615	ISI and Scopus
168	Exploration of irreversibility process and thermal energy of a tetra hybrid radiative binary nanofluid focusing on solar implementations	Nanotechnology Reviews	Sajid, Tanveer, Salem Algarni, Hijaz Ahmad, Talal Alqahtani, Wasim Jamshed, Mohamed R. Eid, Kashif Irshad, and Ayesha Amjad	https://doi.org/10.1515/ntrev-2024-0040	ISI and Scopus
169	Thermal Response of Convective-Radiative Stagnation Point Flow Influenced by Advanced Ternary Nanoparticles (Al2O3–Cu–CuO) and Temperature Slip: Study for Elastic Surface	BioNanoScience	Adnan, Khaleeq ur Rahman, Sami Ullah Khan, and Hijaz Ahmad	https://doi.org/10.1007/s12668-024-01456-3	ISI and Scopus
170	On the soliton structures of the space–time conformable version of (n+ 1)-dimensional generalized Kadomtsev–Petviashvili (KP) equation	Optical and Quantum Electronics	Danladi, Ali, Alhaji Tahir, Hadi Rezazadeh, Ibrahim Isa Adamu, Soheil Salahshour, and Hijaz Ahmad	https://doi.org/10.1007/s11082-024-06899-2	ISI and Scopus
171	Melting Thermal Process in Buoyancy Driven Radiated Flow of (MoS2-SiO2-Au)/H2O near the Stagnant Point under Mixed Convection	Case Studies in Thermal Engineering	Said, Lotfi Ben, Warisha Gul, Zafar Mahmood, Mutasem Z. Bani-Fwaz, Hijaz Ahmad, Sami Ullah Khan, and Walid Aich	https://doi.org/10.1016/j.csite.2024.104615	ISI and Scopus

172	Numerical exploration of the entropy generation in tri-hybrid nanofluid flow across a curved stretching surface subject to exponential heat source/sink	Journal of Thermal Analysis and Calorimetry	Hayat, Asif Ullah, Hassan Khan, Ikram Ullah, Hijaz Ahmad, Mohammad Mahtab Alam, and Muhammad Bilal	https://doi.org/10.1007/s10973-024-13358-3	ISI and Scopus
173	Rayleigh wave in nonlocal piezo-thermo-electric semiconductor medium with fractional MGT model	Waves in Random and Complex Media	Gupta, Vipin, Hijaz Ahmad, M. S. Barak, Soumik Das, and Sandeep Kumar	https://doi.org/10.1080/17455030.2024.2379958	ISI and Scopus
174	Numerical study of an electrically conducting nanofluid flow past a vertical stretching Riga plate	Journal of Radiation Research and Applied Sciences	Bilal, Muhammad, A. Alameer, Hijaz Ahmad, Hamiden Abd El-Wahed Khalifa, Abeer A. Shaaban, and Yasir Khan	https://doi.org/10.1016/j.jrras.2024.101195	ISI and Scopus
175	Some fixed point theorems in generalized parametric metric spaces and applications to ordinary differential equations	Mathematica Slovaca	Das, Abhishikta, Hijaz Ahmad, and Tarapada Bag	https://doi.org/10.1515/ms-2024-0093	ISI and Scopus
176	Simulations for the Schrödinger–Hirota equation arising in nonlinear optics in the presence of chromatic dispersion	Partial Differential Equations in Applied Mathematics	Sadaf, Maasoomah, Saima Arshed, Ghazala Akram, Muhammad Abdaal Bin Iqbal, Hijaz Ahmad, and Mohamed R. Ali	https://doi.org/10.1016/j.padiff.2024.100969	Scopus
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179	Entropy formation in second grade nanofluid flow across a curved surface with the impact of activation energy and chemical reaction	Case Studies in Thermal Engineering	Ullah, Ikram, Asif Ullah Hayat, Mohammad Mahtab Alam, Marouan Kouki, Hamda Khan, and Hijaz Ahmad	https://doi.org/10.1016/j.csite.2024.105151	ISI and Scopus

180	A NOVEL APPROACH FOR THE NONLINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS USING CLIQUE POLYNOMIALS OF GRAPH	Journal of Applied Analysis & Computation	Kumbinarasaiah, S., Hadi Rezazadeh, and Hijaz Ahmad	http://www.jaac-online.com/article/doi/10.11948/20230419	ISI and Scopus
181	A nonstandard compact finite difference method for a truncated Bratu–Picard model	AIMS Mathematics	Arabameri, Maryam, Raziyeh Gharechahi, Taher A. Nofal, and Hijaz Ahmad	https://www.aimspress.com/article/doi/10.3934/math.20241338	ISI and Scopus
182	A Comprehensive Analysis of Partition Dimensions in Efavirenz Abacavir Lamivudine Doravirine of Anti-HIV Drug Structures	Iraqi Journal for Computer Science and Mathematics	Raj, R. Nithya, R. Sundara Rajan, and Hijaz Ahmad	https://doi.org/10.52866/2788-7421.1212	Scopus
183	Case Study of Radiation Absorptive and Chemical Reactive Impacts on Unsteady MHD Natural Convection Flowing of Cu-Al2O3/H2O Hybridized Nanofluid	Case Studies in Thermal Engineering	Satish, Rekha, Buchanahalli Thimmaiah Raju, Mummadisetty Umamaheswar, Vijayakumar Varma Sibyala, Charankumar Ganteda, Assmaa Abd-Elmonem, Fayza Abdel Aziz ElSeabee	https://doi.org/10.1016/j.csite.2024.105536	ISI and Scopus
184	Effects of mixing tallow methyl ester with diesel fuel on the thermal characteristics of diesel engine	Energy Conversion and Management: X	Al-Dawody, Mohamed F., Duraid F. Maki, Wisam Al-Obaidi, Emad D. Aboud, Khaled Al-Farhany, Ammar Abdulkadhim, Tikendra Nath Verma, and Hijaz Ahmad	https://doi.org/10.1016/j.ecmx.2024.100804	ISI and Scopus
185	Entropy analysis in tri-hybrid nanofluid flow past a curved surface with applications of heat radiation and Lorentz force; numerical simulation	Journal of Radiation Research and Applied Sciences	Asif Ullah Hayat, Hijaz Ahmad, Sameh Gana, Taseer Muhammad, Aboulbaba Eladeb, Lioua Kols	https://doi.org/10.1016/j.jrras.2024.101276	ISI and Scopus
186	Moments of Generalized Order Statistics from Dou	Statistics, Optimization and Information Computing	M. I. Khan	org/10.19139/soic-2310-	Scopus

187	Stability and bifurcation analysis of a discrete-time plant-herbivore model with harvesting effect	AIMS Mathematics	Mohammed Alsubhi 1 , Rizwan Ahmed 2 , Ibrahim Alraddadi Faisal Alsharif 1 , Muhammad Imran 2	https://www.aimspress.com/article/doi/10.3934/math.2024976	ISI and Scopus
188	Dynamical Behaviors and Abundant Soliton Solutions of Two Nonlinear PDEs via an Efficient Expansion Method in Industrial Engineering	Mathematics (MPDI)	Ibrahim Alraddadi , M. Akher Chowdhury , M. S. Abbas , K. El-Rashidy , J. R. M. Borhan, M. Mamun Miah, and Mohammad Kanan	https://www.mdpi.com/2227-7390/12/13/2053	ISI and Scopus
189	Characterizing magnetohydrodynamic effects on developed nanofluid flow in an obstructed vertical duct under constant pressure gradient	Open Physics, Vol. 22, no. 1, 20240070, **2024**	**Syed M Hussain**, K. Ali, S Ahmad, MA Qureshi, A Abd-Elmonem, W Jamshed, Ibrahim Alraddadi	https://doi.org/10.1515/phys-2024-0070	ISI and Scopus
190	Natural convection and flow patterns of Cu–water nanofluids in hexagonal cavity: A novel thermal case study	Open Physics, Vol. 22, no. 1, 20240041, **2024**	Mohammad Akram, K Benhanifia, M Brahim, L Rahmani, Abu Zaid Ansari, MR Eid, **Syed M Hussain**, F Redouane, W Jamshed, Ibrahim Alraddadi	https://doi.org/10.1515/phys-2024-0041	ISI and Scopus
191	Exploring the dynamic behavior of the two-phase model in radiative non-Newtonian nanofluid flow with Hall current and ion slip effects	Journal of Radiation Research and Applied Sciences, Vol.17, Issue 4, 101112, **2024**	Mohammad Akram, O Ala'yed, R Saadeh, A Qazza, AM Obalalu, U Khan, A Darvesh, AA Usman, AM Abdul-Yekeen, **Syed M. Hussain**	https://doi.org/10.1016/j.jrras.2024.101112	ISI and Scopus
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194	Exploring heat transfer in magnetized binary nanofluid flows with gyrotactic microorganisms through bioconvection analysis	Numerical Heat Transfer, Part A: Applications, **2024**	MS Sankari, ME Rao, W Jamshed, MR Eid, **Syed M Hussain**, Hijaz Ahmad, A Abd-Elmonem, N Alhubieshi	https://doi.org/10.1080/10407782.2024.2382312	ISI and Scopus
195	Entropy generation analysis of MHD convection flow of hybrid nanofluid in a wavy enclosure with heat generation and thermal radiation	Reviews on Advanced Materials Science, Vol. 63, Issue 1, pp. 20240037, **2024**	**Syed M Hussain**, R Parveen, NM Katbar, S Rehman, A Abd-Elmonem, NSE Abdalla, Hijaz Ahmad, MA Qureshi, W Jamshed, A Amjad, RW Ibrahim	https://doi.org/10.1515/rams-2024-0037	ISI and Scopus
196	Numerical Simulation and Entropy Optimization of Hybrid Nanofluid Flow in an Inclined Wavy Enclosure Subjected to Thermal Radiation	Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, **2024**	S Rehman, R Parveen, Wasim Jamshed, M Prakash, R W Ibrahim, MR Eid, **Syed M Hussain**, Hijaz Ahmad	https://doi.org/10.1177/23977914241248558	ISI and Scopus
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199	CFD analysis of paraffin-based hybrid (Co–Au) and trihybrid (Co–Au–ZrO2) nanofluid flow through a porous medium	Nanotechnology Reviews, 13: 20240024, **2024**	D. Yang, S. Ahmad, K. Ali, S. Algarni, T. Alqahtani, W. Jamshed, **Syed M Hussain**, Kashif Irshad, Hijaz Ahmad	https://doi.org/10.1515/ntrev-2024-0024	ISI and Scopus
200	Enriched Z-Contractions and Fixed-Point Resu	Axioms	I. Alraddadi, M. Din, U. Ishtiaq, M. A	https://doi.org/10.3390/a	ISI
201	Stochastic analysis and soliton solutions of the Chaffee–Infante equation in nonlinear optical media	Boundary Value Problems	Alwaleed Kamel, Hanen Yossef Louati, Khaled Aldwoah, Faez Alqarni, Mohammed Almalahi, Manel Hleili	**https://doi.org/10.1186/s13661-024-01930-7**	ISI and Scopus
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204	Studying nonlinear vibration analysis of nanoelectro-mechanical resonators via analytical computational method	Open Physics	Gamal M. Ismail, Alwaleed Kamel, and Abdulaziz Alsarrani	**https://doi.org/10.1515/phys-2024-0011**	ISI and Scopus
205	**Practical Aspects for Applying Picard Iterations to the SIR Model Using Actual Data**	International Journal of Analysis and Applications 22, 32-32	I. K. Youssef, M. Khalifa Saad, Ali Dumlu, Somia A. Asklany	https://etamaths.com/index.php/ijaa/article/view/3122	ISI / Scopus
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209	Powered Hazard Distribution through Order Statistics and Its Applications	International Journal of Intelligent Systems and Applications in Engineering	M. I. Khan and Abdelfattah Mustafa	https://ijisae.org/index.php/IJISAE/article/view/6264	Scopus
210	Moments of Powered Rayleigh Distribution by Ge	TRANSACTIONS on MATHE	M. I. Khan	urnals/mathematics/202	Scopus
211	Order Statistics and Actuarial Measures from Pow	EUROPEAN JOURNAL OF P	M. I. Khan	rg/10.28924/2291-8639-	ISI and Scopus
212	Recursive Computation of Rayleigh- Rayleigh Dis	nal Journal of Analysis and Ap	M. I. Khan		Scopus
213	Theoretical treatment and implementation of the SCM included Appell-Changhee polynomials for the fractional delayed Carbon absorption-emission model	Results in Physics	M. M. Khader, M. Adel, M. B. Riaz and H. Ahmad	https://doi.org/10.1016/j.rinp.2024.107459	ISI and Scopus
214	Effective numerical method for studying the fractal-fractional smoking model	Fractals	M. Adel, M. M. Khader, I. Alraddadi, N. H. Sweilam, M. B. Riaz and H. Ahmad	https://doi.org/10.1142/S0218348X24400504	ISI and Scopus
215	MHD nanofluid ow and heat transfer caused by a stretching sheet that is heated convectively: An approximate solution using ADM	Case Studies in Thermal Engineering	M. Adel, M. M. Khader and H. Ahmad	https://doi.org/10.1016/j.csite.2024.104683	ISI and Scopus
216	Optoelectronic Application of Chebyshev spectral collocation method: solving the MHD nano fluid ow and heat transfer induced by a convectively heated stretching	European Physical Journal-Special Topics	M. M. Khader, H. Ahmad and M. Adel	https://doi.org/10.1140/epjs/s11734-024-01205-3	ISI and Scopus

217	Numerical analysis of the MHD Williamson nanofluid flow over a nonlinear stretching sheet through a Darcy porous medium: Modeling and simulation	Open Physics	M. M. Khader, H. Ahmad, A. M. Megahed and M. Adel	doi.org/10.1515/phys-2024-0016	ISI and Scopus
218	Inferences of accelerated generalized type-I hy	Alexandria Engineering Journal	Rana A. Bakoban, Hanadi M. Abdel	https://doi.org/10.1016/j	ISI
219	On the dynamical study of the quadratic-cubic fractional nonlinear Schrödinger model in superfast fibers	Optical and Quantum Electronics	Badshah, Fazal, Kalim U. Tariq, M. Zeeshan, Hijaz Ahmad, Gamal M. Ismail, and Khaled Mohamed Khedher	https://doi.org/10.1007/s11082-023-06234-1	ISI and Scopus
220	Numerical study of heat and mass transfer of williamson hybrid nanofluid (CuO/CNT's-water) past a permeable stretching/shrinking surface with mixed convective boundary condition	Case Studies in Thermal Engineering	Jain, Ruchi, Ruchika Mehta, Anurag Bhatnagar, Hijaz Ahmad, Zareen A. Khan, and Gamal M. Ismail	https://doi.org/10.1016/j.csite.2024.104313	ISI and Scopus
221	Heat and mass transfer of hydromagnetic williamson nanofluid flow study over an exponentially stretched surface with suction/injection, buoyancy, radiation and chemical reaction impacts	Case Studies in Thermal Engineering	Jangid, Sanju, Ruchika Mehta, Anurag Bhatnagar, Ibrahim alraddadi, Maged F. Alotaibi, and Hijaz Ahmad	https://doi.org/10.1016/j.csite.2024.104278	ISI and Scopus
222	Thermal Case Study of Magnetic Radiative Flow Impacts on Newtonian Nanofluid Over a Stretchable Plate in Absorbent: Box Approach	Case Studies in Thermal Engineering	Hussain, Syed M., Zill E. Shams, Qammar Rubbab, Nor Ain Azeany Mohd Nasir, Assmaa Abd-Elmonem, Nesreen Sirelkhtam Elmki Abdalla, Muhammad Amer Qureshi, and Hijaz Ahmad	https://doi.org/10.1016/j.csite.2024.104539	ISI and Scopus

223	Exploring Advanced Analysis Technique for Shallow Water FlowModels with Diverse Applications	Iraqi Journal for Computer Science and Mathematics	Hijaz Ahmad, El-Agamy, Rasha F., Gamal M. Ismail, Ibrahim Alraddadi, Mohammad Aljanabi, and Umar Farooq.	https://ijcsm.researchcommons.org/ijcsm/vol5/iss2/11/	Scopus
224	A thermal energy analysis of binary (Go-Co/H2O) and ternary (Go-Co-Zro2/H2O) nanofluids based on characterization and thermal performance	Energy & Environment	Hussain, Syed M., Sohail Ahmad, Kashif Ali, Mohammed K. Al Mesfer, Mohd Danish, Wasim Jamshed, Kashif Irshad, and Hijaz Ahmad	https://doi.org/10.1177/0958305X241256	ISI and Scopus
225	MHD nanofluid flow and heat transfer caused by a stretching sheet that is heated convectively: An approximate solution using ADM	Case Studies in Thermal Engineering	Adel, M., M. M. Khader, and Hijaz Ahmad	https://doi.org/10.1016/j.csite.2024.104683	ISI and Scopus
226	Parabolic trough solar collector technology using TiO2 nanofluids with dimpled tubes	Case Studies in Thermal Engineering	Arun, M., Debabrata Barik, Hijaz Ahmad, Ibrahim Alraddadi, Mohamed A. Shenashen, and Zareen A. Khan	https://doi.org/10.1016/j.csite.2024.104840	ISI and Scopus
227	Analytical Analysis of Thermal Conductivity by Laminar Flow Under the Influence of MHD Using Vogel's Model	Acta Mechanica et Automatica	Nawaz, Rashid, Muhammad Farooq, Siddiq Ur Rehman, Gamal M. Ismail, and Hijaz Ahmad	https://sciendo.com/article/10.2478/ama-2024-0058	ISI and Scopus
228	Controllability of time-varying fractional dynamical systems	Journal of Taibah University for Science	Sivalingam, S. M., M. Vellappandi, V. Govindaraj, Ibrahim Alraddadi, Faisal Alsharif, and Hijaz Ahmad	https://doi.org/10.1080/16583655.2024.2399378	ISI and Scopus
229	Comparative Analysis of the Plane Couette Flow of Couple Stress Fluid Under the Influence of Magnetohydrodynamics	East European Journal of Physics	Farooq, Muhammad, Ibrar Khan, Rashid Nawaz, Gamal M. Ismail, Huzaifa Umar, and Hijaz Ahmad	https://doi.org/10.26565/2312-4334-2024-2-21	ISI and Scopus
230	Investigation of Multi-modal Binder Optimization Characterization Modeling by Using Metal Oxide Nanoparticles	BioNanoScience	Gopan, Gokul, M. Arun, M. Adel, M. M. Khader, and Hijaz Ahmad	https://doi.org/10.1007/s12668-024-01750-0	ISI and Scopus

231	Innovative soliton solutions for a (2+ 1)-dimensional generalized KdV equation using two effective approaches	AIMS Mathematics	Alraddadi, Ibrahim, Faisal Alsharif, Sandeep Malik, Hijaz Ahmad, Taha Radwan, and Karim K. Ahmed	https://www.aimspress.com/article/doi/10.3934/math.20241664	ISI and Scopus
232	Mechanical-Acoustic Waves with Two Temperature Nonlocal Thermoelasticity Theory Subjected to Decaying Heat Source	Journal of Vibration Engineering & Technologies	M. Adel, M. Raddadi, A. A. El-Bary, and K. Lotfy	https://doi.org/10.1007/s42417-024-01502-0	ISI and Scopus
233	Exploring advanced analysis technique for shallow	Iraqi Journal for Computer Sci	H. Ahmad, Gamal M. Ismail, I. Alrad	https://journal.esj.edu.iq/index.php/IJCM/article/view/1710/370	Scopus

مشاريع تكامل 11 لكلية العلوم لعلم 1441 هـ/ 1442 هـ (2020 / 2021)

الفريق البحثي	اسم المشروع	تاريخ بداية المشروع	تاريخ نهاية المشروع
PI: Abu Zaid Ansari Co. PI: Faiza Shujat	المشتقات المعممة للحلقات الأولية والتطبيقات Generalized derivations of prime rings and applications	6\2020	6\2021
PI: Syed Modassir Hussain, RA: Sattam S. S. Alrashidy	Mathematical analysis of magneto-nanofluid flow problems with different configurations and geometries	6\2020	12\2020
PI:Ismail kaoud Co. PI Mohamed Hassan	دراسة مقارنة للنماذج الرياضية للأمراض الوبائية مع التطبيق على الإدارة الإستراتيجية لحالة الإنفلونزا الجديدة A comparative study of Epidemic Disease Mathematical Models with Application to the Strategic management of the new influenza case	6\2020	6\2021
باحث رئيسي: محمد عادل باحث مشارك: محمد السعيد	عنوان المشروع: طريقة فعالة لحل معادلة رد الفعل المتغير الجزئي معتمدة صيغة هيرميت An Efficient Approach for Solving Fractional Variable Order Reaction Sub diffusion Equation Based on Hermite Formula	6\2020	6\2021
PI: Md. Izhar Khan Co. PI: Abdelfattah Mustafa	Moments of Progressive Type- II Right Censored Ordered Statistics from Power Hazard Rate Distribution	6\2020	12\2020
PI: Mohamamd Akram	Study of Variational Inequalities and Ordered Inclusion Problems	6\2020	2\2021
PI:Mohamed Khalifa	عن السطوح الدائرية المماسية في الفراغ الزمكاني (لورنتز-مينكوفيسكي) ثلاثي البعد On Tangent Circular Surfaces in Lorentz-Minkowski 3-Space	6\2020	2\2021

مشاريع تميز 2 لقسم الرياضيات 1441 هـ / 1442 هـ (2020/ 2021)

الفريق البحثي	اسم المشروع	تاريخ بداية المشروع	تاريخ نهاية المشروع
PI: Abu Zaid Ansari Co. PI: M. Khalifa & Dr. Mohammad Akram R. A. Farea Al-Jabri Al-Harbi	عن الطحن الأسطواني للأسطح المسطرة والقابلة للفرد وتطبيقاتها في إنتاج الطاقة On Cylindrical Milling of Ruled and Developable Surfaces and its Applications in Energy Production.	11\ 2020	7\ 2022
PI: Dr Syed Modassir Hussain, RA (Master): Mr. Sattam S. S. Alrashidy, RA (UG): Mr. Ahmed Reyad Ragab Daoud	Mathematical modelling and analysis of some hydromagnetic nanofluids/hybrid-nanofluids flow problems with heat transfer characteristics	11\ 2020	7\ 2022
PI:Ismail kaoud Co. PI Mohamed Khalifa RA: Ali Domolo	معالجة طيفية لبعض نماذج الأمراض الوبائية ذات البارامترات الفازية A spectral Treatment for some Epidemic Disease Models with Fuzzy Parameters	11\ 2020	7\ 2022
باحث رئيسي: محمد عادل باحث مشارك: خالد الدوة باحث مساعد: فارع هليل فارع الحربي	عنوان المشروع: السلوك المقارب لسبيكة ثنائية في مجال الطاقة وعلوم المواد: طرق تحليلية وعددية The asymptotic behavior for a binary alloy in the field of energy and material science: analytical and numerical techniques	11\ 2020	7\ 2022