



DEPARTMENT OF MATHEMATICS  
Bachelor in Mathematics Program

Mathematics Department Scientific Publications

2024

## Mathematics Department Scientific Publications - 2024

#	Title	Author(s)	Journal/Conference	Link/DOI
	<b>Dr. Nawaf Alsowait</b>			
1	<b>Exploring Commutativity via Generalized <math>(\alpha, \beta)</math>-Derivations Involving Prime Ideals</b>	<b>Nawaf Alsowait, Radwan M Al-omary, Zakia Al-Amery, Mohammed Al-Shomrani</b>	<b>Mathematics/MDPI</b>	<a href="https://doi.org/10.3390/math12152325">https://doi.org/10.3390/math12152325</a>
2	<b>On finite groups with certain maximal CSS-subgroups</b>	<b>N Alsowait, AA Heliel, MM Al-Shomrani, AH Zailai</b>	<b>Communications in Algebra\ Taylor &amp; Francis</b>	<a href="https://doi.org/10.1080/00927872.2024.2418028">https://doi.org/10.1080/00927872.2024.2418028</a>
	<b>Dr. Khalaf M Alanazi</b>			
3	<b>Traveling wave solutions of a susceptible-infectious model</b>	<b>Khalaf M Alanazi</b>	<b>Annals of Mathematics and Computer Science</b>	<a href="https://doi.org/10.56947/amcs.v24.354">https://doi.org/10.56947/amcs.v24.354</a>



4	A Prey-Predator Mathematical Model With Diffusion and Home Ranges	Khalaf M Alanazi	International Journal of Analysis and Applications	<a href="https://doi.org/10.28924/2291-8639-22-2024-111">https://doi.org/10.28924/2291-8639-22-2024-111</a>
5	Modeling and Simulating an Epidemic in Two Dimensions with an Application Regarding COVID-19	Khalaf M Alanazi	computation	<a href="https://doi.org/10.3390/computation120034">https://doi.org/10.3390/computation120034</a>
6	The asymptotic spreading speeds of COVID-19 with the effect of delay and quarantine	Khalaf M Alanazi	aims mathematics	<a href="https://doi.org/10.3934/math.2024945">https://doi.org/10.3934/math.2024945</a>
	Dr. Nawaf Alsowait			
7	Finite Groups with Certain Weakly S-permutable Subgroups	Nawaf Alsowait, Abdelrahman A Heliel, Mohammed Al-Shomrani, Areej AS Allehyani	European Journal of Pure and Applied Mathematics	<a href="https://doi.org/10.29020/nybg.ejpam.v17i2.5120">https://doi.org/10.29020/nybg.ejpam.v17i2.5120</a>
8	Synergistic Impact of Active Case Detection and Early Hospitalization for Controlling the Spread of Yellow Fever Outbreak in Nigeria: An Epidemiological Modeling and Optimal Control Analysis	Nawaf L Alsowait, Mohammed M Al-Shomrani, Ismail Abdulrashid, Salihu S Musa	Mathematics/MDPI	<a href="https://doi.org/10.3390/math12233817">https://doi.org/10.3390/math12233817</a>
	Dr. Hanen Louati			



9	Optimizing control efficiency in discrete-time multi-agent systems via event-triggered containment techniques combining disturbance handling and input delay management	<b>Hanen Louati</b> , Azmat Ullah Khan Niazi, Mhassen EE Dalam, Waqar Ul Hassan, Khawer Hameed Khan, Mohammed Alhagyan	Heliyon	<a href="https://www.cell.com/helixon/fulltext/S2405-8440(24)10006-0">https://www.cell.com/helixon/fulltext/S2405-8440(24)10006-0</a>
10	Analysis of Entropy Generation via Non-Similar Numerical Approach for Magnetohydrodynamics Casson Fluid Flow with Joule Heating	<b>Hanen Louati</b> , Sajid Khan, Muavia Mansoor, Shreefa O Hilali, Ameni Gargouri	Entropy	<a href="https://www.mdpi.com/1099-4300/26/8/702">https://www.mdpi.com/1099-4300/26/8/702</a>
11	Securing bipartite nonlinear fractional-order multi-agent systems against false data injection attacks (FDIAs) considering hostile environment	<b>Hanen Louati</b> , Saadia Rehman, Farhat Imtiaz, Nafisa A AlBasheir, Afrah Y Al-Rezami, Mohammed MA Almazah, Azmat Ullah Khan Niazi	Fractal and Fractional	<a href="https://www.mdpi.com/2504-3110/8/7/430">https://www.mdpi.com/2504-3110/8/7/430</a>
12	Analysis of octane isomer properties via topological descriptors of line graphs	Tariq Alraqad, Abdu Alameri, Mohammed Alsharafi, <b>Hanen Louati</b> , Khaled A Aldwoah, Hicham Saber, Ivan Gutman	Scientific Reports	<a href="https://www.nature.com/articles/s41598-024-75454-6">https://www.nature.com/articles/s41598-024-75454-6</a>
13	Applications of a q-Integral Operator to a Certain Class of Analytic Functions Associated with a Symmetric Domain	Adeel Ahmad, <b>Hanen Louati</b> , Akhter Rasheed, Asad Ali, Saqib Hussain, Shreefa O Hilali, Afrah Y Al-Rezami	Symmetry	<a href="https://www.mdpi.com/2073-8994/16/11/1443">https://www.mdpi.com/2073-8994/16/11/1443</a>
14	Defining and Analyzing New Classes Associated with $(\lambda, \gamma)$ -Symmetrical Functions and Quantum Calculus	<b>Hanen Louati</b> , Afrah Y Al-Rezami, Abdulbasit A Dareem, Fuad Alsarari	Mathematics	<a href="https://www.proquest.com/openview/86c5015430fd47acf2244c733ba564f9/1?pq-origsite=gscholar&amp;cbl=2032364">https://www.proquest.com/openview/86c5015430fd47acf2244c733ba564f9/1?pq-origsite=gscholar&amp;cbl=2032364</a>



15	Stochastic analysis and soliton solutions of the Chaffee–Infante equation in nonlinear optical media	Alwaleed Kamel, Hanen Yossef Louati, Khaled Aldwoah, Faez Alqarni, Mohammed Almalahi, Manel Hleili	Boundary Value Problems	<a href="https://link.springer.com/article/10.1186/s13661-024-01930-7">https://link.springer.com/article/10.1186/s13661-024-01930-7</a>
16	Application of -starlike and -convex functions under -symmetrical constraints	Hanen Louati, Afrah Al-Rezami, Erhan Deniz, Abdulbasit Darem, Robert Szasz,	AIMS Mathematics	chrome-extension://efaidnbmnnibpcajpcgkclefindmkaj/https://www.aimspress.com/aimspress-data/math/2024/12/PDF/math-09-12-1591.pdf
	Dr. Ramlah Albayyat			
17	A new estimator of between study variance of standardized mean difference in meta-analysis	Ramlah H. Albayyat ,Hajar S. Aljohani,Dalia K.Alnagar	PLOS ONE	<a href="https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0308628">https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0308628</a>
	Dr. Walid Abdelfattah			
18	How does governance quality affect the shadow economy-sustainable development nexus? New insights from a dynamic threshold analysis	Assidi, Nadia; Nouira, Ridha;Saafi, Sami; Abdelfattah, Walid; Ben Mim, Sami	Journal of economic studies	DOI: 10.1108/JES-09-2023-0469
19	Non-cooperative game theory with generative adversarial network for effective decision-making in military cyber warfare	Ma, X., Abdelfattah, W., Luo, D. et al	Ann Oper Res	<a href="https://doi.org/10.1007/s10479-024-06406-6">https://doi.org/10.1007/s10479-024-06406-6</a>

20	Triple weak solution for $p(x)$ -Laplacian like problem involving no flux boundary condition	Kefi, Khaled, Chung, Nguyen Thanh and <b>Abdelfattah, Walid</b>	Georgian Mathematical Journal	<a href="https://doi.org/10.1515/gmj-2024-2043">https://doi.org/10.1515/gmj-2024-2043</a>
21	A Framework for Efficient and Accurate Automated CLO and PLO Assessment	Zayani, H.M., <b>Abdelfattah, W.</b> , Sellami, R., Slimane, J.B. and Kachoukh, A	Engineering, Technology & Applied Science Research	<a href="https://doi.org/10.48084/etasr.6846">https://doi.org/10.48084/etasr.6846</a>
22	Feature Imputation using Neutrosophic Set Theory in Machine Learning Regression Context	El Touati, Y. and <b>Abdelfattah, W</b>	Engineering, Technology & Applied Science Research	<a href="https://doi.org/10.48084/etasr.7052">https://doi.org/10.48084/etasr.7052</a>
23	Application of Data Envelopment Analysis to Evaluate Health Regions Efficiency in Saudi Arabia	<b>Abdelfattah, W.</b> and Alanazi, B.S	Engineering, Technology & Applied Science Research	<a href="https://doi.org/10.48084/etasr.7176">https://doi.org/10.48084/etasr.7176</a>
24	A smart electricity consumption management framework using internet of things (IoT) to optimize electricity demand	Kuldeep Sharma, Arun Malik, <b>Walid Abdelfattah</b> , Isha Batra, Mohammad Shabaz	Measurement: Sensors	<a href="https://doi.org/10.1016/j.measen.2024.101218">doi.org/10.1016/j.measen.2024.101218</a>
25	Thermally-switchable adsorbent for selective uranium extraction from wastewater	Zuo, Ruoyu Wang, Jiayu Zuo, <b>Walid Abdelfattah</b> , Mohamed H. Helal, Guoze Yan, Shaoqing Liu, Tao Wang, Jinyang Bao, Liang Bai, Lijuan Feng, Zeinhom M. El-Bahy, Xingtao Xu	Chemical Engineering Journal	<a href="https://doi.org/10.1016/j.cej.2024.156484">doi.org/10.1016/j.cej.2024.156484</a>
26	Function-oriented design principles for adsorbent materials of uranium extraction from seawater	Shaoqing Liu, Binbin Tao, Bin Zuo, Kaidan Zheng, <b>Walid Abdelfattah</b> , Jinyang Bao, Guoze Yan, Tao Wang, Ruoyu Wang, Zhengtong Li, Saad	Chemical Engineering Journal	<a href="https://doi.org/10.1016/j.cej.2024.156783">doi.org/10.1016/j.cej.2024.156783</a>

		Melhi, Wafa A. Alshahrani, Xingtao Xu		
	<b>Dr. Ahmad Ayyad Alharbi</b>			
27	Thermal analysis of heat transport in a slip flow of ternary hybrid nanofluid with suction upon a stretching/shrinking sheet	Ahmad Ayyad Alharbi	Case Studies in Thermal Engineering	<a href="https://doi.org/10.1016/j.csite.2023.103965">doi.org/10.1016/j.csite.2023.103965</a>
28	A COMSOL-Based Numerical Simulation of Heat Transfer in a Hybrid Nanofluid Flow at the Stagnant Point across a Stretching/Shrinking Sheet: Implementation for Understanding and Improving Solar Systems	<b>Ahmad Ayyad Alharbi</b> , Ali Rashash R. Alzahrani	mathematics	<a href="https://doi.org/10.3390/math12162493">doi.org/10.3390/math12162493</a>
29	Enhancement in the electrical efficiency of a photovoltaic thermal system through ternary nanofluids application: Nanomaterial shape effects and phase change material encased in a rectangular block	<b>Ahmad Ayyad Alharbi</b> , Ali Rashash R. Alzahrani	Engineering Science and Technology, an International Journal	<a href="https://doi.org/10.1016/j.jestch.2024.101919">doi.org/10.1016/j.jestch.2024.101919</a>
	<b>Dr. A. M. Abd El-latif</b>			



30	New soft operators related to supra soft $\delta$ -open sets and applications	A. M. Abd El-latif and M. H. Alqahtani	AIMS Math	<a href="https://doi.org/10.3934/math.2024150">https://doi.org/10.3934/math.2024150</a>
31	Novel types of supra soft operators via supra soft sd-sets and applications	A. M. Abd El-latif	AIMS Math.	<a href="https://doi.org/10.3934/math.2024321">https://doi.org/10.3934/math.2024321</a>
32	Novel categories of supra soft continuous maps via new soft operators,=	A. M. Abd El-latif and M. H. Alqahtani	AIMS Math.	<a href="https://doi.org/10.3934/math.2024361">https://doi.org/10.3934/math.2024361</a>
33	Novel categories of spaces in the frame of fuzzy soft topologies	T. M. Al-shami, Salem Saleh, A. M. Abd El-latif and Abdelwaheb Mhemdi	AIMS Math.	<a href="https://doi.org/10.3934/math.2024307">https://doi.org/10.3934/math.2024307</a>
34	Strictly wider class of soft sets via supra soft $\delta$ -closure operator	A. M. Abd El-latif , M. H. Alqahtani and Fatouh A. Gharib	Int. J. Anal. Appl.	<a href="https://doi.org/10.28924/2291-8639-22-2024-47">https://doi.org/10.28924/2291-8639-22-2024-47</a>
35	Finite soft-open sets: characterizations, operators and continuity	T. M. Al-shami, Abdelwaheb Mhemdi, A. M. Abd El-latif, and Fuad A. Abu Shaheen	AIMS Math.	<a href="https://doi.org/10.3934/math.2024507">https://doi.org/10.3934/math.2024507</a>
36	Separation axioms via novel operators in the frame of topological spaces and applications	M. H. Alqahtani and A. M. Abd El-latif	AIMS Math.	<a href="https://doi.org/10.3934/math.2024690">https://doi.org/10.3934/math.2024690</a>
37	Topologically indistinguishable relations and separation axioms	S. Demiralp, T. M. Al-shami, Fuad A. Abushaheen and A. M. Abd El-latif	AIMS Math.	<a href="https://doi.org/10.3934/math.2024758">https://doi.org/10.3934/math.2024758</a>
38	Fractional generalized cumulative residual entropy: Properties, testing uniformity, and	A. M. Abd El-latif, Hanan H. Sakr and M.S. Mohamed	AIMS Math.	<a href="https://doi.org/10.3934/math.2024881">https://doi.org/10.3934/math.2024881</a>



	applications to euro area daily smoker data			
39	New versions of maps and connected spaces via supra soft sd-operators	A. M. Abd El-latif, A. A. Azzam , Radwan Abu-Gdairi, M. Aldawood and Mesfer H. Alqahtani,	PLOS ONE	<a href="https://doi.org/10.1371/journal.pone.0304042">https://doi.org/10.1371/journal.pone.0304042</a>
40	Applications on soft somewhere dense sets	A. M. Abd El-latif, A. A. Azzam , Radwan Abu-Gdairi, Mesfer H. Alqahtani and Gehad M. Abd-Elhamed	J. Interdiscip. Math.,	<a href="https://www.tarupublications.com/doi/10.47974/JIM-2007">https://www.tarupublications.com/doi/10.47974/JIM-2007</a>
	Dr. Fathia M. Al Samman			
41	Neural intelligent approach for heat transfer applications of trihybrid cross bio-nano°uid over wedge geometry	Assad Ayub*, Zahoor Iqbal †, Syed Zahir Hussain Shah*, <b>Fathia M. Al Samman</b> ‡, Ha ́z Abdul Wahab*, Mhassen E. E. Dalam§ and Ameni Gargouri	Modern Physics Letters B	<a href="https://www.worldscientific.com/action/doSearch?AllField=Neural+intelligent+&amp;SeriesKey=mplb">https://www.worldscientific.com/action/doSearch?AllField=Neural+intelligent+&amp;SeriesKey=mplb</a>
42	Influence of baffle size and position on natural convective heat transport in a skewed cavity by finite element method	Md. Shamim Hasan*, Md. Fayz-Al-Asad*, †, Zahoor Iqbal ‡, **, Md. Manirul Alam Sarker*, <b>Fathia M. Al Samman</b> §, Mohammed Alhagyan¶, M. M. Alqarni   and Ameni Gargouri	Modern Physics Letters B	<a href="https://www.worldscientific.com/action/doSearch?AllField=Influence+of+Baffle+Size+&amp;SeriesKey=mplb">https://www.worldscientific.com/action/doSearch?AllField=Influence+of+Baffle+Size+&amp;SeriesKey=mplb</a>



43	An optimal estimation approach in stratified random sampling utilizing two auxiliary attributes with application in agricultural, demography, finance, and education sectors	Almulhim, FA (Almulhim, F. A.) ; Iqbal, K (Iqbal, Kanwal) ; <b>Al Samman, FM (Al Samman, Fathia M.)</b> ; Ali, A (Ali, Asad) ; Almazah, MMA (Almazah, Mohammed M. A.)	Heliyon	<a href="https://www.sciencedirect.com/search?q=s=An%20Optimal%20Estimation">https://www.sciencedirect.com/search?q=s=An%20Optimal%20Estimation</a>
44	Improving drought monitoring using climate models with biascorrected under Gaussian mixture probability models	Naz, R (Naz, Rubina) ; Ali, Z (Ali, Zulfiqar) ; Kartal, V (Kartal, Veysi) ; Alshahrani, MA (Alshahrani, Mohammed A.) ; Hilali, SO (Hilali, Shreefa O.) ; <b>Al Samman, FM (Al Samman, Fathia Moh.)</b>	International Journal of Climatology	<a href="https://rmets.onlinelibrary.wiley.com/act ion/doSearch?AllField=Improving+Drought+&amp;SeriesKey=10970088">https://rmets.onlinelibrary.wiley.com/act ion/doSearch?AllField=Improving+Drought+&amp;SeriesKey=10970088</a>
45	Efficient Graph Algorithms in Securing Communication Networks	Syed Ahtsham Ul Haq Bokhary, Athar Kharal, <b>Fathia M. Al Samman</b> , Mhassen. E. E. Dalam and Ameni Gargouri	Symmetry	<a href="https://www.mdpi.com/search?q=Effici ent+Graph+Algorithms+in+Securing+&amp;journa l=symmetry">https://www.mdpi.com/search?q=Effici ent+Graph+Algorithms+in+Securing+&amp;journa l=symmetry</a>
46	Double extreme-cum-median ranked set sampling	Muhammad Zubair, Seyab Yasin, Afrah Al-Bossly, Asad Ali, <b>Fathia Moh. Al Samman</b> , Mohammed M. A. Almazah, Kanwal Iqbal	Plos One	<a href="https://journals.plos.org/plosone/search?filterJournals=PLoSONE&amp;q=Double%20Ext reme-Cum-Median%20Ranked%20Set%20Sampling">https://journals.plos.org/plosone/search?filterJournals=PLoSONE&amp;q=Double%20Ext reme-Cum-Median%20Ranked%20Set%20Sampling</a>
47	Exploring Symmetry in an Epidemiological Model: Numerical Analysis of Backward Bifurcation and Sensitivity Indices	<b>Fathia Moh. Al Samma</b> , N. Avinash, P. Chellamani, Nafisa A. Albasheir, Ameni Gargouri, G. Britto Antony Xavier and Mohammed M. A. Almazah	Symmetry	<a href="https://www.mdpi.com/search?q=Explori ng+Symmetry+in+a+Epidemiological+&amp;jou rnal=symmetry">https://www.mdpi.com/search?q=Explori ng+Symmetry+in+a+Epidemiological+&amp;jou rnal=symmetry</a>

48	Deep learning multilayer stochastic intelligent computing for the analysis of irregular heat source of Carreau nanofluid within the vicinity of an exponentially expanding cylinder	Zahoor Shah , Nafisa A. Albasheir, Muhammad Asif Zahoor Raja, Mohammed M.A. Almazah, <b>Fathia Moh. Al Samman</b> , Muhammad Talha, Attika Jamil, M. Waqas	Tribology International	<a href="https://www.sciencedirect.com/search?&lt;br/&gt;qs=Deep%20learning%20multilayer">https://www.sciencedirect.com/search? qs=Deep%20learning%20multilayer</a>
	<b>Dr. Bader Salamah Alanazi</b>			
49	Effective vague soft environment-based decision-making	Hanan H. Sakr, <b>Bader S Alanazi</b>	AIMS Mathematics	<a href="https://doi.org/10.3934/math.2024467">doi: 10.3934/math.2024467</a>
50	A Statistical Model for Analyzing the Impact of GDP Components on the Manufacturing Sector in Saudi Arabia	Bader S Alananzi	Statistics, Optimization and Information Computing (SOIC)	<a href="https://doi.org/10.19139/soic-2310-5070-2261">DOI: https://doi.org/10.19139/soic- 2310-5070-2261</a>
51	Application of Data Envelopment Analysis to Evaluate Health Regions Efficiency in Saudi Arabia	Walid Abdelfattah, <b>Bader S Alanazi</b>	Engineering, Technology & Applied Science Research	<a href="https://doi.org/10.48084/etasr.7176">https://doi.org/10.48084/etasr.7176</a>
	<b>Dr. Bader Saad Alshammari</b>			
52	Numerical analysis of coupled dynamical biological networks: Modeling electrical information exchange among nerve cells using finite volume method	Muzammal Saleem ; Taofeek O. Alade; Muhammad Saqib; Shahid Hasnain; <b>Badar Saad Alshammari</b> ; Muhammad Farman	AIP Advances	<a href="https://doi.org/10.1063/5.0215819">DOI: 10.1063/5.0215819</a>

53	Numerical Identification of Boundary Condition for Reaction-Advection-Diffusion Partial Differential Equation	Bader Saad Alshammari	International Journal of Analysis and Applications	<a href="https://doi.org/10.28924/2291-8639-22-2024-212">DOI: 10.28924/2291-8639-22-2024-212</a>
54	Numerical investigation for a boundary optimal control of reaction-advection-diffusion equation using penalization technique	<u>Bader Saad Alshammari</u> , Daoud Suleiman Mashat, Fouad Othman Mallawi	Mathematical Modelling and Control	<a href="https://doi.org/10.3934/mmc.2024027">DOI: 10.3934/mmc.2024027</a>
	Dr. Abdelhamid Zaghdani			
55	Analysis of a Weak Galerkin Mixed Formulation for Modified Maxwell's Equations	Abdelhamid Zaghdani & Abdelhalim hasnoui	MDPI Mathematics	
56	Chiti-type Reverse Hölder Inequality and Saint-Venant Theorem for Wedge Domains on Spheres	Abdelhalim hasnoui & Abdelhamid Zaghdani	International Journal of Analysis and Applications	
57	An Augmented Mixed DG Scheme for the Electric Field	Abdelhamid Zaghdani	International Journal of Analysis and Applications	
58	Analysis of a Weak Galerkin Mixed Formulation for Maxwell's Equations	Abdelhamid Zaghdani, A. hasnoui & Sayed Sayari	Kragujevac journal of Mathematics.	
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59	Some results of pseudo-differential operators related to the spherical mean operator	Khaled Hleili and Manel Hleili	Journal of Pseudo-Differential Operators and Applications	
60	QUANTITATIVE UNCERTAINTY PRINCIPLES FOR THE CANONICAL FOURIER BESSSEL TRANSFORM	Khaled Hleili and Manel Hleili	Kragujevac journal of Mathematics.	
61	On generalized distributions associated with singular partial differential operators	Khaled Hleili and Manel Hleili	Hacettepe Journal of Mathematics and Statistics	
62	Strictly wider class of soft sets via supra soft $\delta$ -closure operator	A. M. Abd El-latif , M. H. Alqahtani and Fatouh A. Gharib	Int. J. Anal. Appl.	<a href="https://doi.org/10.28924/2291-8639-22-2024-47">https://doi.org/10.28924/2291-8639-22-2024-47</a>
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63	Uncertainty Principles for the Weinstein Wavelet Transform	Amel Touati, I Kallel, A Saoudi	International Journal of Analysis and Applications	<a href="https://doi.org/10.28924/2291-8639-22-2024-211">https://doi.org/10.28924/2291-8639-22-2024-211</a>
64	Ai-powered Levenberg-Marquardt neural networks for implementation of novel flux conditions in Carreau nanomaterial stagnation-point flow considering magnetic field and heat source effects	Nafisa A. Albasheir , Zahoor Shah, Muhammad Asif Zahoor Raja , Amel A. Touati , Mohammed M. A. Almazah, Maryam Jawaid , M. Waqas	Measurement	<a href="https://doi.org/10.1016/j.measurement.2024.116304">https://doi.org/10.1016/j.measurement.2024.116304</a>



65	<b>COEFFICIENT PROPERTIES FOR A SUBCLASS OF SPIRAL-LIKE SYMMETRICAL FUNCTIONS ASSOCIATED WITH THE q-DERIVATIVE OPERATOR</b>	<b>M. TOUATI, A. ALSARARI F, AL-REZAMI, A. Y ERHAN, D ABDULBASIT A. DAREM</b>	<b>Journal of applied Mathematics &amp; Informatics</b>	
	<b>Dr. Amani Alrumayh</b>			
66	<b>Bernoulli Poisson Moment Exponential Distribution: Mathematical Properties, Regression Model, and Applications</b>	<b>Amani Alrumayh</b>	<b>International Journal of Mathematics and Mathematical Sciences</b>	<a href="https://doi.org/10.1155/2024/5687958">https://doi.org/10.1155/2024/5687958</a>
67	<b>A New Flexible Extension of the XLindley Distribution with Properties and Application on Income Tax and Carbon Fibers Data</b>	<b>Amani Alrumayh</b>	<b>International Journal of Analysis and Applications</b>	<a href="https://doi.org/10.28924/2291-8639-22-2024-202">https://doi.org/10.28924/2291-8639-22-2024-202</a>
68	<b>New Advanced Trigonometric Modeling of COVID-19 Cases in Saudi Arabia</b>	<b>Hazar A. Khogeer and Amani Alrumayh</b>	<b>Journal of Mathematics</b>	<a href="https://doi.org/10.1155/jom/5309854">https://doi.org/10.1155/jom/5309854</a>
69	<b>Statistical Analysis and Several Estimation Methods of New Alpha Power-Transformed Pareto Model with Applications in Insurance</b>	<b>Meshayil M. Alsolmi, Fatimah A. Almulhim, Meraou Mohammed Amine, Hassan M. Aljohani, Amani Alrumayh and Fateh Belouadah</b>	<b>Symmetry</b>	<a href="https://doi.org/10.3390/sym16101367">https://doi.org/10.3390/sym16101367</a>
70	<b>Bayesian estimation and prediction under progressive-stress</b>	<b>Amulya Kumar Mahto, Yogesh Mani Tripathi, Sanku Dey, Basim S.O. Alsaedi, Marwan H. Alhelali, Fatimah M.</b>	<b>Alexandria Engineering Journal</b>	<a href="https://doi.org/10.1016/j.aej.2024.05.045">https://doi.org/10.1016/j.aej.2024.05.045</a>

	accelerated life test for a logistic model	Alghamdi, <b>Amani Alrumerayh</b> , Etaf Alsharabeh		
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126	Symmetry analysis, conservation laws and exact soliton solutions for the -dimensional modified Zakharov–Kuznetsov equation in plasmas with magnetic fields	Akhtar Hussain, Naseem Abbas, Tarek F Ibrahim, Fathea M Osman Birkea, Bushra R Al-Sinan	Optical and Quantum Electronics	
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