

تقرير عن البحث العلمي الخاص بالأبحاث التي تم نشرها وكذلك التي قبلت للنشر من قبل  
أعضاء هيئة التدريس بقسم الرياضيات

### الأبحاث العلمية لعام 2020

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	عضو هيئة التدريس
	Symmetry	Y. M. Saber, F. Alsharari and F. Smarandache	On Single-Valued Neutrosophic Ideals in Sostak Sense	1 د-فهد الشراري
	Tamkang Journal of Mathematics	H. Akhadkulov, F. Alsharari and T. Ying	Applications of Krasnoselskii-Dhage type fixed-point theorems to fractional hybrid differential equations	2
	International Journal of Analysis and Applications	F. Alsharari.	Ideals on generalized topological spaces	3
	International Journal of Advanced and Applied Sciences	F. Alsharari and Y. M. Saber	Separation axioms on fuzzy ideal topological spaces in the sense of Sostak	4
	New Mathematics and Natural Computation	F. Alsharari and Y. M. Saber.	$\mathcal{F}\theta_{\tau_1}^{*T}$ – Fuzzy closure operator	5
	Advances and Applications in Statistics.	Alanzi, A. R. A. and S. F. Niazi Ali	Bayesian prediction intervals for a new bathtub shape failure rate life time model in the presence of outliers	6 د-عايد رحيل العنيزي
	Computers,	Mir Subzar,	The Robust Regression	7

	Materials & Continua (CMC).	Amer Ibrahim Al-Omari, and Ayed R. A. Alanzi	Methods for Estimating of Finite Population Mean Based on SRSWOR in Case of Outlier's.		
	International Journal of Advanced Computer Science and Applications (IJACSA).	S. F. Niazi Ali and Alanzi, A. R. A.	Prediction Intervals based on Doubly Type-II Censored Data from Gompertz Distribution in the Presence of Outliers.	8	
	International Journal of Engineering and Advanced Technology (IJEAT).	Ramadhan A. M. Alsaidi, Alanzi, A. R. A., Saleh R. A. Alenazi, and Madallah Alruwaili	Using Derived kernel as a new Method for Recognition a Similarity Learning.	9	
	Genetics and Molecular Research (GMR).	Alanzi, A. R. A.	Large Number of Taxa Used to Estimate Rooted Species Tree by Using ABC method from Unrooted Gene Tree.	10	
Vo1. 34 № 4 (2020), Article ID 2050051	Modern Physics Letters B	Mohamed M. Mousa and Wen-Xiu Ma	Efficient modeling of shallow water equations using method of lines and artificial viscosity	11	د-محمد مدحت
Vo1. 34 № 3 (2020), Article ID 2050049	Modern Physics Letters B	Wen-Xiu Ma, Mohamed M. Mousa and Mohamed R. Ali	Application of a new hybrid method for solving singular fractional Lane–Emden-type equations in astrophysics	12	
	International Journal of Analysis and Applications	Ahmed A Gaber Mohmoud Shehata	NEW APPROACH OF MHD BOUNDARY LAYER FLOW TOWARDS A POROUS STRETCHING SHEET VIA SYMMETRY ANALYSIS AND THE GENERALIZED EXP-FUNCTION METHOD	13	د- محمود حسن شحاتة
	International Journal of Advanced and Applied Sciences	Ahmed A Gaber Mohmoud Shehata	Numerical study of the melting process in heat transfer with moving boundary	14	

	International Journal of Analysis and Applications	Ahmed A Gaber Mohmoud Shehata	NEW APPROACH OF MHD BOUNDARY LAYER FLOW TOWARDS A POROUS STRETCHING SHEET VIA SYMMETRY ANALYSIS AND THE GENERALIZED EXP-FUNCTION METHOD	15	د-احمد عبدالستار
	International Journal of Advanced and Applied Sciences	Ahmed A Gaber	Integrability and wave solutions for fifth-order KdV type equation	16	
	International Journal of Analysis and Applications	Ahmed A Gaber M H M Moussa	SYMMETRY ANALYSIS AND SOLITARY WAVE SOLUTIONS OF NONLINEAR ION-ACOUSTIC WAVES EQUATION	17	
	International Journal of Advanced and Applied Sciences	Ahmed A Gaber Mohmoud Shehata	Numerical study of the melting process in heat transfer with moving boundary	18	
<a href="https://doi.org/10.1142/S1793005720500088">https://doi.org/10.1142/S1793005720500088</a> ISI	New Mathematics and Natural Computation	Yaser M. Saber And Fahad Alsharari	$\mathcal{G}\mathcal{O}_{\mathcal{F}}$ – Fuzzy closure operator	19	د- ياسر محمد عبدالغني
<a href="https://doi.org/10.3390/sym12020193">https://doi.org/10.3390/sym12020193</a> ISI (Impact Factor 2.143)	Symmetry	Yaser M. Saber, Fahad Alsharari and Florentin Smarandache	On Single-Valued Neutrosophic Ideals in Sostak Sense	20	
<a href="https://doi.org/10.21833/ijaaas.2020.02.011">https://doi.org/10.21833/ijaaas.2020.02.011</a> ISI	International Journal of Advanced and Applied Sciences	Yaser M. Saber And Fahad Alsharari	Separation axioms on fuzzy ideal topological spaces in Sostak's sense	21	

Vol. 544	Statistical Mechanics and its Applications	Q. Xiong, I. Tlili, N. Dara, A. Rebey	Energy storage simulation involving NEPCM solidification in appearance of fins	22	د-عمر الربيعي
	International Journal of Advanced Computer Science and Applications,	S. F. Niazi Ali Ayed R. A. Alanzi	PREDICTION INTERVALS BASED ON DOUBLY TYPE-II CENSORED DATA FORM GOMPERTZ DISTRIBUTION IN THE PRESENCE OF OUTLIERS	23	د-شريف فاروق نيازي
	Advances and Applications in Statistics	S. F. Niazi Ali Ayed R. A. Alanzi	BAYESIAN PREDICTION INTERVALS FOR A NEW BATHTUB SHAPE FAILURE RATE LIFE TIME MODEL IN THE PRESENCE OF OUTLIERS	24	
	Journal of Applied Probability & Statistics	S. F. Niazi Ali Saieed F. Ateya	Bayesian Inference For Gompertz Life Time Model Based On Type-I Censoring Scheme	25	

## الأبحاث العلمية لعام 2019

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	عضو هيئة التدريس
Vol. 49, No. 1, 2019, 91-100	Novi Sad J. Math.	F. Alsharari, T. Noiri and A. Qahis	New Forms of Strongly Weakly $\mu$ -Compact in Terms of Hereditary Classes	1 د-فهد الشراري
	Pakistan Journal of Statistics (PJS).	Alanzi, A. R. A.	Maximum Likelihood Inference of Rooted Species Trees From Rooted vs Unrooted Gene Trees.	2 د-عايد رحيل العنيزي
	Journal of Mathematics and Statistics (jmssp).	Alanzi, A. R. A., Alodat N. A., & Qazza A. M.	Modification on PPS sample scheme with replacement.	3
	International Journal of Environmental Research and Public Health (IJERPH).	Che Wan Mohamed Radzi, Hashem Salarzadeh Jenatabadi, Alanzi, A. R. A., Mohd Istajib Mokhtar, Mohd Zufri Mamat, Nor Aishah Abdullah,	Analysis of Obesity among Malaysian University Students: A Combination Study with the Application of Bayesian Structural Equation Modeling and Pearson Correlation.	4
Vol. 2019, Article ID 1705651	Advances in Mathematical Physics	Mohamed R. Ali, Mohamed M. Mousa and Wen-Xiu Ma	Solution of nonlinear volterra integral equations with weakly singular kernel by using the HOBW method	5 د-محمد مدحت
Vol. 23 № 3B (2019), 1801–1811	Thermal Science	Mohamed M. Mousa	Effects of porosity and heat generation on free convection in a porous trapezoidal cavity	6

Vol. 12, No. 8 (2019)	International Journal of Biomathematics	A. Rebey	Existence of local stable manifolds for some non densely defined non-autonomous partial functional differential equations	7	د-عمر الربعي
74, 181 (2019) doi:10.1007/s0002 5-019-1106-8	Results in Mathematics	M.Ben Salah,  M. Miraoui  A. Rebey	New results for some  neutral partial functional differential equations	8	
	Results in physics	Rehab M Elashiekh	Classes of new exact solutions for nonlinear Schrödinger equations with variable coefficients arising in optical fiber	9	د-رحاب محمود عبد الحليم الشيخ

## الأبحاث العلمية لعام 2018

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	1	عضو هيئة التدريس
	International Journal of Fuzzy Logic and Intelligent Systems.	Y. M. Saber and F. Alsharari	Generalized Fuzzy Ideal Closed Sets on Fuzzy Topological Spaces in Sostak sense	1	د-فهد الشراري
Vol. 3 (2018), 303–309	Journal of Ocean Engineering and Science	Mohamed M. Mousa	Efficient numerical scheme based on the method of lines for the shallow water equations	2	د- محمد مدحت
<a href="https://2018doi.org/10.5391/IJFIS..18.3.161">https://2018doi.org/10.5391/IJFIS..18.3.161</a> ISI	International Journal of Fuzzy Logic and Intelligent Systems	Yaser M. Saber And Fahad Alsharari	Generalized Fuzzy Ideal Closed Sets on Fuzzy Topological Spaces in Sostak Sense	3	د-ياسر عبد الغني
	Nonlinear Dyn	Ahmed A Gaber A. F. Aljohani A. Ebaid . Tenreiro Machado	The generalized Kudryashov method for nonlinear space–time fractional partial differential equations of Burgers type	4	د-احمد عبد الستار
	Romanian Reports in Physics	Ahmed A Gaber A. Ebaid	ANALYTICAL STUDY ON THE SLIP FLOW AND HEAT TRANSFER OF NANOFLUIDS OVER A STRETCHING SHEET USING ADOMIAN'S METHOD	5	
11(3): 1-7, 2018; Article no. ARJOM.44348 ISSN: 2456-477X	Asian Research journal of Mathematics	Elmonser Hedi	Symmetric q-Gamma function	6	د-الهادي البشير المنصر

9(4):1-9, 2018;Article no, ARJOM.41715	Asian Research journal of Mathematics	Mosbah Eljeri	S-strongly Finite type Rings	7	د-مصباح الجريئ
	Zeitschrift für Naturforschung A  A Journal of Physical Sciences  Vol. 73 (3),2018	Rehab M Elashiekh	Painlevé Test, Bäcklund Transformation and Consistent Riccati Expansion Solvability for two Generalised Cylindrical Korteweg- de Vries Equations with Variable Coefficients	8	د-رحاب محمود عبد الحليم الشيخ
	Journal  Arab Journal of Basic and Applied Sciences  Volume 25, 2018 - Issue 2	Rehab M Elashiekh	New similarity solutions for the generalized variable-coefficients KdV equation by using symmetry group method	9	
	Zeitschrift für Naturforschung A  A Journal of Physical Sciences  Vol. 73 (3),2018	Rehab M Elashiekh	Painlevé Test, Bäcklund Transformation and Consistent Riccati Expansion Solvability for two Generalised Cylindrical Korteweg- de Vries Equations with Variable Coefficients	10	



## الأبحاث العلمية للعام 2017

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	عضو هيئة التدريس	
	International Journal of Pure and Applied Mathematics.	H. Akhadkulov, A. B. Saaban, S. Akhatkulov, F. Alsharari and F. Alipiah	Applications of Multidimensional Fixed-Point Theorems to a Nonlinear Integral Equation	1	د-فهد الشراري
	Molecular Phylogenetics and Evolution.	Alanzi, A. R. A., & Degnan, J. H.	Inferring rooted species trees from unrooted gene trees using Approximate Bayesian Computation.	2	د-عايد رحيل العنيزي
56.2 (2017), 181–193 doi: 10.7169/facm/1603	Functiones et Approximatio	Elmonser Hedi	SYMMETRIC q-BERNOULLI NUMBERS AND POLYNOMIALS	3	د- الهادي المنصر
	Computers & Mathematics with Applications  Volume 73, Issue 7, 1 April 2017, Pages 1414-1420	Rehab M Elashiekh	Periodic and solitary wave solutions for a generalized variable-coefficient Boiti–Leon–Pempinlli system	4	د-رحاب محمود عبد الحليم الشيخ

## الأبحاث العلمية للعام 2016

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	عضو هيئة التدريس
Vol. 4 (2016), 328–340	Journal of Applied Mathematics and Physics	Mohamed M. Mousa	Finite element simulation of a unimolecular thermal decomposition inside a reactor	1 د-محمد مدحت
Vol. 39 (2016), 483–498	Bulletin of the Malaysian mathematical sciences society	Mohamed M. Mousa	Modeling of laminar buoyancy convection in a square cavity containing an obstacle	2
		IEEE transaction on reliability	Ranom effect additive mean residual life model	3 الاستاذة
		Applications of Mathematics	General proportional mean residual life model	4 دليل ناصر عبد العزیز المفرج

## الأبحاث العلمية للعام 2015

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	1	عضو هيئة التدريس
Vol. 70a № 1 (2015), 47–58	Zeitschrift für Naturforschung A (A Journal of Physical Sciences)	Mohamed M. Mousa	Robust schemes based on the method of lines for shock capturing	1	د- محمد مدحت
Vol. 5 № 4 (2015), 515–524	British Journal of Mathematics & Computer Science	Mohamed M. Mousa	Controlled variational iteration method for Bratu equation arising in Electro-spun organic nanofibers elaboration	2	
156(2015) 331- 339	<i>Journal of Number Theory</i>	Elmonser Hedi	Some proprieties for the q-Gamma functions via Wielandt's Theorem	3	د- الهادي المنصر
	Zeitschrift für Naturforschung A	Rehab M Elashiekh	Direct Similarity Reduction and New Exact Solutions for the Variable-Coefficient Kadomtsev– Petviashvili Equation	4	د-رحاب محمود الشيخ

## الأبحاث العلمية للعام 2013

العدد وسنة النشر	اسم المجلة	أسماء الباحثين	اسم البحث	عضو هيئة التدريس
2013/1/289	<i>Journal of Inequalities and Applications</i>	Elmonser Hedi	Inequalities related to the third Jackson q-Bessel function of order zero	1 د- الهادي المنصر