

Abdul Jalil M Khalaf

List of Publications by Year in descending order

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72
papers

1,008
citations

471061

17
h-index

454577

30
g-index

73
all docs

73
docs citations

73
times ranked

576
citing authors

#	ARTICLE	IF	CITATIONS
1	Megastability: Coexistence of a countable infinity of nested attractors in a periodically-forced oscillator with spatially-periodic damping. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1979-1985.	1.2	163
2	Dynamical analysis of a new multistable chaotic system with hidden attractor: Antimonotonicity, coexisting multiple attractors, and offset boosting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 1450-1456.	0.9	111
3	A new hidden chaotic attractor with extreme multi-stability. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 89, 131-135.	1.7	80
4	A Modified Multistable Chaotic Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1850085.	0.7	66
5	A new nonlinear oscillator with infinite number of coexisting hidden and self-excited attractors. <i>Chinese Physics B</i> , 2018, 27, 040502.	0.7	60
6	A new oscillator with mega-stability and its Hamilton energy: Infinite coexisting hidden and self-excited attractors. <i>Chaos</i> , 2020, 30, 033112.	1.0	48
7	A no-equilibrium memristive system with four-wing hyperchaotic attractor. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 95, 207-215.	1.7	47
8	Dynamical behavior and network analysis of an extended Hindmarsh-Rose neuron model. <i>Nonlinear Dynamics</i> , 2019, 98, 477-487.	2.7	36
9	Carpet oscillator: A new megastable nonlinear oscillator with infinite islands of self-excited and hidden attractors. <i>Pramana - Journal of Physics</i> , 2018, 91, 1.	0.9	34
10	Coexistence of attractors in a simple chaotic oscillator with fractional-order-memristor component: analysis, FPGA implementation, chaos control and synchronization. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2035-2051.	1.2	28
11	On degree based topological indices of bridge graphs. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , 2020, 23, 1139-1156.	0.5	28
12	Wavefront-obstacle interactions and the initiation of reentry in excitable media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 1162-1173.	1.2	23
13	Complete dynamical analysis of a neuron under magnetic flow effect. <i>Chinese Journal of Physics</i> , 2018, 56, 2254-2264.	2.0	22
14	A new 4D chaotic system with hidden attractor and its engineering applications: Analog circuit design and field programmable gate array implementation. <i>Pramana - Journal of Physics</i> , 2018, 90, 1.	0.9	21
15	A novel parametrically controlled multi-scroll chaotic attractor along with electronic circuit design. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	21
16	Extreme multi-stability analysis of a novel 5D chaotic system with hidden attractors, line equilibrium, permutation entropy and its secure communication scheme. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1175-1188.	1.2	21
17	Hyperchaos and Coexisting Attractors in a Modified van der Pol-Duffing Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950067.	0.7	17
18	M-Polynomial and topological indices of book graph. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , 2020, 23, 1217-1237.	0.5	16

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19	Spiral wave in a two-layer neuronal network. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2371-2379.	1.2	13
20	Analysis, Synchronization and Microcontroller Implementation of a New Quasiperiodically Forced Chaotic Oscillator with Megastability. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2020, 44, 31-45.	1.5	11
21	A new hidden attractor hyperchaotic memristor oscillator with a line of equilibria. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1279-1288.	1.2	11
22	The eccentric based Zagreb indices of carbon graphite. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , 2020, 23, 1121-1137.	0.5	10
23	A Giga-Stable Oscillator with Hidden and Self-Excited Attractors: A Megastable Oscillator Forced by His Twin. <i>Entropy</i> , 2019, 21, 535.	1.1	9
24	A Novel Class of Chaotic Flows with Infinite Equilibriums and Their Application in Chaos-Based Communication Design Using DCSK. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018, 73, 609-617.	0.7	8
25	Detecting bifurcation points in a memristive neuron model. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1943-1950.	1.2	8
26	Hosoya polynomial of some cactus chains. <i>Cogent Mathematics</i> , 2017, 4, 1305638.	0.4	6
27	A new memristive chaotic flow with a line of equilibria. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2339-2349.	1.2	6
28	Synchronization in a multiplex network of gene oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125919.	0.9	6
29	A chaotic map with infinite number of equilibria in a bounded domain. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1109-1116.	1.2	6
30	A new three-dimensional chaotic flow with one stable equilibrium: dynamical properties and complexity analysis. <i>Open Physics</i> , 2018, 16, 260-265.	0.8	5
31	Parameter estimation in a new chaotic memristive system using ions motion optimization. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2133-2145.	1.2	5
32	A modified chaotic oscillator with megastability and variable boosting and its synchronisation using contraction theory-based control which is better than backstepping and nonlinear active control. <i>Pramana - Journal of Physics</i> , 2020, 94, 1.	0.9	5
33	Addiction to smartphones leading to distraction in the classrooms: Effect of different cultures. <i>Journal of Statistics and Management Systems</i> , 2021, 24, 741-754.	0.3	5
34	Chromatic Polynomials of POPAM and Siloxane Dendrimers. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 285-287.	0.4	4
35	Investigation of dynamical properties in a chaotic flow with one unstable equilibrium: Circuit design and entropy analysis. <i>Chaos, Solitons and Fractals</i> , 2018, 115, 7-13.	2.5	4
36	Right zero divisor graph of $2\tilde{A}-2$ matrices over \mathbb{Z}_3 . <i>Journal of Information and Optimization Sciences</i> , 2020, 41, 1803-1810.	0.2	4

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37	A study of right zero divisor graph of 3×3 matrices over \mathbb{Z}_2 . Journal of Information and Optimization Sciences, 2020, 41, 1811-1816.	0.2	4
38	On some applications related with algebraic structures through different well known graphs. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 451-471.	0.5	4
39	Topological properties of four types of porphyrin dendrimers. Proyecciones, 2020, 39, 979-993.	0.1	4
40	Process equation as a model for the development of cells. European Physical Journal: Special Topics, 2020, 229, 921-927.	1.2	3
41	Topological indices of the subdivision graph and the line graph of subdivision graph of the wheel graph. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 589-601.	0.5	3
42	A New Memristive Chaotic System with a Plane and Two Lines of Equilibria. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150066.	0.7	3
43	Eccentric connectivity index of chemical trees. AIP Conference Proceedings, 2016, , .	0.3	2
44	Chimera state in a two-dimensional network of coupled genetic oscillators. Europhysics Letters, 2019, 127, 40001.	0.7	2
45	A Complete Investigation of the Effect of External Force on a 3D Megastable Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050012.	0.7	2
46	Investigation of dendrimer structures by means of reverse atomic bond connectivity index. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 473-485.	0.5	2
47	On leap indices of CNC_k by using line operator on its subdivision. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 343-352.	0.5	2
48	THE ATOM BOND CONNECTIVITY INDEX OF CERTAIN GRAPHS. International Journal of Pure and Applied Mathematics, 2016, 106, .	0.2	2
49	Atom Bond Connectivity Index of Molecular Graphs of Alkenes and Cycloalkenes. Journal of Computational and Theoretical Nanoscience, 2017, 14, 5011-5019.	0.4	2
50	On the atom bond connectivity index of certain trees and unicyclic graphs. , 2015, , .		1
51	Eccentric connectivity index of unicyclic graphs with application to cycloalkanes. , 2015, , .		1
52	Computing irregularity measures for Sudoku graph. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 487-498.	0.5	1
53	Eccentric Connectivity Index of Molecular Grapgs of Chemical Trees with Application to Alkynes. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6694-6697.	0.4	1
54	THE k -INDEPENDENT GRAPH OF A GRAPH. Advances and Applications in Discrete Mathematics, 2017, 18, 45-56.	0.0	1

#	ARTICLE	IF	CITATIONS
55	A Family of Chromatically Unique k -Bridge Graphs. , 2009, , .		0
56	On atom bond connectivity index of some molecular graphs. AIP Conference Proceedings, 2016, , .	0.3	0
57	The Atom Bond Connectivity Index of Some Trees and Bicyclic Graphs. , 2017, , 263-271.		0
58	Synchronization of chaotic jerk systems. International Journal of Modern Physics B, 2020, 34, 2050189.	1.0	0
59	ECCENTRIC CONNECTIVITY INDEX OF SOME CHEMICAL TREES. International Journal of Pure and Applied Mathematics, 2016, 106, .	0.2	0
60	Atom Bond Connectivity Index of Molecular Graphs of Alkynes and Cycloalkynes. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6698-6706.	0.4	0
61	DISTINGUISHING NUMBER AND DISTINGUISHING INDEX OF JOIN OF TWO SPECIFIC GRAPHS. Advances and Applications in Discrete Mathematics, 2016, 17, 467-485.	0.0	0
62	Zagreb-Eccentricity Indices of Unicyclic Graph with Application to Cycloalkanes. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8870-8873.	0.4	0
63	Computing the Atom Bond Connectivity Indices of Certain Graphs and Vertex Gluing Types. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8970-8976.	0.4	0
64	CHROMATIC POLYNOMIALS AND CHROMATICITY OF ZERO-DIVISOR GRAPHS II. Far East Journal of Mathematical Sciences, 2016, 100, 2143-2151.	0.0	0
65	A Note on Chromaticity of Multibrige Graphs. International Journal of Mathematics and Computer Applications Research, 2018, 8, 21-26.	0.0	0
66	CHROMATIC POLYNOMIALS AND CHROMATICITY FOR GENERALIZED CENTIPEDE GRAPHS AND HYPERGRAPHS. Far East Journal of Mathematical Sciences, 2018, 103, 385-399.	0.0	0
67	CHROMATIC POLYNOMIAL OF SEMI-UNIFORM HYPERSTAR. Advances and Applications in Discrete Mathematics, 2019, 20, 193-203.	0.0	0
68	A chaotic iterative fuzzy modeling of circulating a simple sentence. Scientia Iranica, 2019, , .	0.3	0
69	??, Approximation of Functions on Graphs. Journal of Advanced Research in Dynamical and Control Systems, 2019, 11, 767-768.	0.3	0
70	On Chromatic Polynomial of Elementary h -Uniform Hyper Cycles. Journal of Engineering and Applied Sciences, 2019, 14, 7967-7971.	0.2	0
71	Super antimagic total labeling under duplication operations. Proyecciones, 2020, 39, 995-1003.	0.1	0
72	Bounds on partition dimension of Peterson graphs. Journal of Information and Optimization Sciences, 2021, 42, 1569-1588.	0.2	0