

Majid Khan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

2,285
citations

27
h-index

44
g-index

103
ext. papers

2,735
ext. citations

2.7
avg, IF

6.25
L-index

#	Paper	IF	Citations
99	Efficient cryptosystem approaches: S-boxes and permutation-substitution-based encryption. <i>Nonlinear Dynamics</i> , 2017 , 87, 337-361	5	144
98	HAM solutions for boundary layer flow in the region of the stagnation point towards a stretching sheet. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 475-481	3.7	111
97	A novel technique for the construction of strong S-boxes based on chaotic Lorenz systems. <i>Nonlinear Dynamics</i> , 2012 , 70, 2303-2311	5	108
96	A novel construction of substitution box for image encryption applications with Gingerbreadman chaotic map and S8 permutation. <i>Neural Computing and Applications</i> , 2018 , 29, 993-999	4.8	104
95	Construction of S-box based on chaotic Boolean functions and its application in image encryption. <i>Neural Computing and Applications</i> , 2016 , 27, 677-685	4.8	103
94	An efficient method for the construction of block cipher with multi-chaotic systems. <i>Nonlinear Dynamics</i> , 2013 , 71, 489-492	5	94
93	A novel image encryption scheme based on multiple chaotic S-boxes. <i>Nonlinear Dynamics</i> , 2015 , 82, 527-533	5.33	86
92	A novel chaotic image encryption technique based on multiple discrete dynamical maps. <i>Multimedia Tools and Applications</i> , 2019 , 78, 26203-26222	2.5	64
91	An efficient chaotic image encryption scheme. <i>Neural Computing and Applications</i> , 2015 , 26, 1137-1148	4.8	64
90	A new comparative study between homotopy analysis transform method and homotopy perturbation transform method on a semi infinite domain. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 1143-1150		64
89	An efficient technique for the construction of substitution box with chaotic partial differential equation. <i>Nonlinear Dynamics</i> , 2013 , 73, 1795-1801	5	60
88	An efficient construction of substitution box with fractional chaotic system. <i>Signal, Image and Video Processing</i> , 2015 , 9, 1335-1338	1.6	59
87	A New Efficient Digital Image Encryption Based on Inverse Left Almost Semi Group and Lorenz Chaotic System. <i>Entropy</i> , 2018 , 20,	2.8	55
86	A novel image encryption scheme based on quantum dynamical spinning and rotations. <i>PLoS ONE</i> , 2018 , 13, e0206460	3.7	50
85	A construction of novel chaos base nonlinear component of block cipher. <i>Nonlinear Dynamics</i> , 2014 , 76, 377-382	5	49
84	A novel image encryption technique based on Hénon chaotic map and S8 symmetric group. <i>Neural Computing and Applications</i> , 2014 , 25, 1717-1722	4.8	45
83	Application of Laplace decomposition method on semi-infinite domain. <i>Numerical Algorithms</i> , 2011 , 56, 211-218	2.1	44

82	A new implementation of chaotic S-boxes in CAPTCHA. <i>Signal, Image and Video Processing</i> , 2016 , 10, 293-300	4.1	41
81	Application Based Construction and Optimization of Substitution Boxes Over 2D Mixed Chaotic Maps. <i>International Journal of Theoretical Physics</i> , 2019 , 58, 3091-3117	1.1	38
80	A new approach to digital content privacy using quantum spin and finite-state machine. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	37
79	A Novel Image Encryption Technique Based on Generalized Advanced Encryption Standard Based on Field of Any Characteristic. <i>Wireless Personal Communications</i> , 2019 , 109, 849-867	1.9	36
78	A new analytical solution procedure for nonlinear integral equations. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 1892-1897		35
77	A new construction of confusion component of block ciphers. <i>Multimedia Tools and Applications</i> , 2019 , 78, 32585-32604	2.5	33
76	Information Confidentiality Using Quantum Spinning, Rotation and Finite State Machine. <i>International Journal of Theoretical Physics</i> , 2018 , 57, 3584-3594	1.1	32
75	Image privacy scheme using quantum spinning and rotation. <i>Journal of Electronic Imaging</i> , 2018 , 27, 1	0.7	31
74	A Novel Digital Contents Privacy Scheme Based on Kramer's Arbitrary Spin. <i>International Journal of Theoretical Physics</i> , 2019 , 58, 2720-2743	1.1	30
73	Stagnation Flow of a Jeffrey Fluid over a Shrinking Sheet. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2010 , 65, 540-548	1.4	29
72	An efficient image encryption scheme based on chaotic and Deoxyribonucleic acid sequencing. <i>Mathematics and Computers in Simulation</i> , 2020 , 177, 441-466	3.3	27
71	An Encryption Scheme Based on Discrete Quantum Map and Continuous Chaotic System. <i>International Journal of Theoretical Physics</i> , 2020 , 59, 1227-1240	1.1	25
70	A new approach for image encryption and watermarking based on substitution box over the classes of chain rings. <i>Multimedia Tools and Applications</i> , 2017 , 76, 24027-24062	2.5	24
69	A novel solution procedure for fuzzy fractional heat equations by homotopy analysis transform method. <i>Neural Computing and Applications</i> , 2013 , 23, 269-271	4.8	23
68	Construction of new S-boxes based on triangle groups and its applications in copyright protection. <i>Multimedia Tools and Applications</i> , 2019 , 78, 15527-15544	2.5	22
67	A reliable treatment of Abel's second kind singular integral equations. <i>Applied Mathematics Letters</i> , 2012 , 25, 1666-1670	3.5	21
66	A novel image encryption technique using hybrid method of discrete dynamical chaotic maps and Brownian motion. <i>PLoS ONE</i> , 2019 , 14, e0225031	3.7	21
65	An efficient image privacy scheme based on nonlinear chaotic system and linear canonical transformation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 546, 123458	3.3	20

64	A Generalization of Algebraic Expression for Nonlinear Component of Symmetric Key Algorithms of Any Characteristic p 2018 ,		20
63	A color image watermarking scheme based on affine transformation and S 4 permutation. <i>Neural Computing and Applications</i> , 2014 , 25, 2037-2045	4.8	19
62	Circuit implementation of 3D chaotic self-exciting single-disk homopolar dynamo and its application in digital image confidentiality. <i>Wireless Networks</i> , 2020 , 1	2.5	18
61	A Literature Review on Image Encryption Techniques. <i>3D Research</i> , 2014 , 5, 1	2.4	18
60	A Novel Statistical Analysis of Chaotic S-box in Image Encryption. <i>3D Research</i> , 2014 , 5, 1	2.4	18
59	Secure image encryption scheme based on fractals key with Fibonacci series and discrete dynamical system. <i>Neural Computing and Applications</i> , 2020 , 32, 11837-11857	4.8	18
58	A novel construction of substitution box with Zaslavskii chaotic map and symmetric group. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 28, 1509-1517	1.6	17
57	A copyright protection using watermarking scheme based on nonlinear permutation and its quality metrics. <i>Neural Computing and Applications</i> , 2015 , 26, 845-855	4.8	16
56	A novel image encryption using Fourier series. <i>JVC/Journal of Vibration and Control</i> , 2015 , 21, 3450-3455		16
55	A novel hybrid encryption scheme based on chaotic Lorenz system and logarithmic key generation. <i>Multimedia Tools and Applications</i> , 2020 , 79, 23507-23529	2.5	16
54	Identifying high potential locations for run-of-the-river hydroelectric power plants using GIS and digital elevation models. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 89, 106-116	16.2	16
53	A Privacy Scheme for Digital Images Based on Quantum Particles. <i>International Journal of Theoretical Physics</i> , 2019 , 58, 4293-4310	1.1	15
52	A novel solution technique for two dimensional Burger's equation. <i>AEJ - Alexandria Engineering Journal</i> , 2014 , 53, 485-490	6.1	15
51	A hybrid cryptosystem for digital contents confidentiality based on rotation of quantum spin states. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 554, 123908	3.3	14
50	An encryption scheme based on chaotic Rabinovich-Fabrikant system and S8 confusion component. <i>Multimedia Tools and Applications</i> , 2021 , 80, 7967-7985	2.5	14
49	Texture Analysis of Chaotic Coupled Map Lattices Based Image Encryption Algorithm. <i>3D Research</i> , 2014 , 5, 1	2.4	13
48	A new watermarking scheme based on Daubechies wavelet and chaotic map for quick response code images. <i>Multimedia Tools and Applications</i> , 2020 , 79, 6891-6914	2.5	13
47	A novel analytical solution of a fractional diffusion problem by homotopy analysis transform method. <i>Neural Computing and Applications</i> , 2013 , 23, 1643-1647	4.8	10

46	Galois Ring ($GR_{2^3,8}$) Dependent (24 times 24) S-Box Design: An RGB Image Encryption Application. <i>Wireless Personal Communications</i> , 2020 , 113, 1201-1224	1.9	10
45	Cryptanalysis of Novel Image Encryption Scheme Based on Multiple Chaotic Substitution Boxes. <i>IEEE Access</i> , 2021 , 9, 93795-93802	3.5	10
44	Cryptanalysis of nonlinear confusion component based encryption algorithm. <i>The Integration VLSI Journal</i> , 2021 , 79, 41-47	1.4	10
43	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. <i>IEEE Access</i> , 2021 , 9, 105678-105685	3.5	10
42	A novel digital contents privacy scheme based on quantum harmonic oscillator and schrodinger paradox. <i>Wireless Networks</i> , 2020 , 1	2.5	9
41	A new modified Laplace decomposition method for higher order boundary value problems. <i>Computational and Mathematical Organization Theory</i> , 2013 , 19, 446-459	2.1	8
40	A New Analytical Approach To Solve Exponential Stretching Sheet Problem In Fluid Mechanics By Variational Iterative Pade Method. <i>Journal of Mathematics and Computer Science</i> , 2011 , 03, 135-144	2.6	8
39	An Efficient Public Key Cryptosystem Based on Dihedral Group and Quantum Spin States. <i>IEEE Access</i> , 2020 , 8, 71821-71832	3.5	7
38	Homotopy Perturbation Padé Transform Method for Blasius Flow Equation Using He $\bar{\bar{e}}$ Polynomials. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2011 , 12, 1-7	1.8	7
37	Cryptanalysis of hybrid secure image encryption based on Julia set fractals and three-dimensional Lorenz chaotic map. <i>Mathematics and Computers in Simulation</i> , 2021 , 190, 826-836	3.3	7
36	An efficient image encryption scheme based on double affine substitution box and chaotic system. <i>The Integration VLSI Journal</i> , 2021 , 81, 108-122	1.4	6
35	Solution of the heat equation in the cast-mould heterogeneous domain using a weighted algorithm based on the homotopy perturbation method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 451-459	4.5	5
34	A new technique for the construction of confusion component based on inverse LA-semigroups and its application in steganography. <i>Multimedia Tools and Applications</i> , 2021 , 80, 28857-28877	2.5	5
33	A novel image encryption based on rossler map diffusion and particle swarm optimization generated highly non-linear substitution boxes. <i>Chinese Journal of Physics</i> , 2021 , 72, 558-574	3.5	5
32	A Novel Hybrid Secure Confidentiality Mechanism for Medical Environment Based on Kramer $\bar{\bar{e}}$ Spin Principle. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 314-330	1.1	5
31	A Novel Cryptosystem Based on General Linear Group. <i>3D Research</i> , 2015 , 6, 1	2.4	4
30	A new algorithm for higher order integro-differential equations. <i>Afrika Matematika</i> , 2015 , 26, 247-255	0.7	4
29	A New Analytical Approach to Solve Magnetohydrodynamics Flow Over a Nonlinear Porous Stretching Sheet by Laplace Padé Decomposition Method. <i>Results in Mathematics</i> , 2013 , 63, 289-301	0.9	4

28	Quantum Harmonic Oscillator and Schrodinger Paradox Based Nonlinear Confusion Component. <i>International Journal of Theoretical Physics</i> , 2020 , 59, 3558-3573	1.1	4
27	A novel combination of information hiding and confidentiality scheme. <i>Multimedia Tools and Applications</i> , 2020 , 79, 30983-31005	2.5	4
26	An efficient image encryption scheme based on fractal Tromino and Chebyshev polynomial. <i>Complex & Intelligent Systems</i> , 2021 , 7, 2751	7.1	4
25	Introduction to Linguistic Steganography. <i>Nonlinear Engineering</i> , 2015 , 4,	3	3
24	New Computational Dynamics for Magnetohydrodynamics Flow over a Nonlinear Stretching Sheet. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2012 , 67, 262-266	1.4	3
23	A Novel Analytical Implementation of Nonlinear Volterra Integral Equations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2012 , 67, 674-678	1.4	3
22	An efficient analytical treatment of twelve order boundary value problems. <i>Engineering Computations</i> , 2014 , 31, 59-68	1.4	2
21	A novel fractional Laplace decomposition method for chaotic systems and the generation of chaotic sequences. <i>JVC/Journal of Vibration and Control</i> , 2014 , 20, 2530-2535	2	2
20	A Numerical Algorithm for Solving Nonlinear Delay Volterra Integral Equations by Means of Homotopy Perturbation Method. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2011 , 12, 15-21	1.8	2
19	Cryptanalysis and Improvement of Novel Image Encryption Technique Using Hybrid Method of Discrete Dynamical Chaotic Maps and Brownian Motion. <i>Multimedia Tools and Applications</i> , 2022 , 81, 6571	2.5	2
18	Quantum Spin Half Algebra and Generalized Megrelishvili Protocol for Confidentiality of Digital Images. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 1720-1741	1.1	2
17	New combination of simple additive and entropy weighting criteria for the selection of best substitution box. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 41, 2325-2338	1.6	2
16	An efficient computational approach for hydromagnetic stagnation flow towards a stretching sheet. <i>Afrika Matematika</i> , 2013 , 24, 321-329	0.7	1
15	A new Analytical Solution Procedure for the Motion of a Spherical Particle in a Plane Couette Flow. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013 , 68, 319-326	1.4	1
14	Homotopy Perturbation Method for Nonlinear Exponential Boundary Layer Equation using Laplace Transformation, He's Polynomials and Pade Technology He's Polynomials and Pade Technology. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2010 , 11,	1.8	1
13	Utilization of Small S-Boxes for Information Hiding 2018 , 511-540		1
12	A hybrid chaotic blowfish encryption for high-resolution satellite imagery. <i>Multimedia Tools and Applications</i> , 2021 , 80, 26069	2.5	1
11	ParentDaughter Confusion Component: A New Approach for the Construction of Nonlinear Confusion Component. <i>Wireless Personal Communications</i> , 2021 , 120, 3095	1.9	1

10	Lightweight Chaos-Based Nonlinear Component of Block Ciphers. <i>Wireless Personal Communications</i> , 2021 , 120, 3017	1.9	1
9	New extension of data encryption standard over 128-bit key for digital images. <i>Neural Computing and Applications</i> , 2021 , 33, 13845	4.8	1
8	Pauli Half Spinning and Elliptic Curve Based Information Confidentiality Mechanism. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 3631-3650	1.1	1
7	Differential cryptanalysis of diffusion and confusion based information confidentiality mechanism. <i>Optik</i> , 2022 , 259, 168989	2.5	1
6	Optimum criterion for lightweight nonlinear confusion component with multi-criteria decision making. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 40, 12399-12410	1.6	0
5	Image encryption scheme for multi-focus images for visual sensors network. <i>Multimedia Tools and Applications</i> ,1	2.5	0
4	An Efficient Information Hiding Mechanism Based on Confusion Component over Local Ring and Moore-Penrose Pseudo Inverse. <i>WSEAS Transactions on Mathematics</i> , 2021 , 20, 24-36	0.5	
3	A dual layer security scheme for medical images using Hessenberg and singular value decompositions. <i>Multimedia Tools and Applications</i> ,1	2.5	
2	Nonlinearity of nonbalanced and nearly bent boolean functions based on Galois ring. <i>Journal of Intelligent and Fuzzy Systems</i> , 2022 , 1-15	1.6	
1	An Efficient Digital Confidentiality Scheme Based on Commutative Chaotic Polynomial. <i>Multimedia Tools and Applications</i> ,1	2.5	