Majid Khan

List of Publications by Year
in descending order

101 papers	3,154 citations	159358 30 h-index	174990 52 g-index
103 all docs	103 docs citations	103 times ranked	1199 citing authors

#	Article	IF	Citations
1	Efficient cryptosystem approaches: S-boxes and permutation–substitution-based encryption. Nonlinear Dynamics, 2017, 87, 337-361.	2.7	192
2	A novel construction of substitution box for image encryption applications with Gingerbreadman chaotic map and S8 permutation. Neural Computing and Applications, 2018, 29, 993-999.	3.2	146
3	A novel technique for the construction of strong S-boxes based on chaotic Lorenz systems. Nonlinear Dynamics, 2012, 70, 2303-2311.	2.7	139
4	Construction of S-box based on chaotic Boolean functions and its application in image encryption. Neural Computing and Applications, 2016, 27, 677-685.	3.2	130
5	HAM solutions for boundary layer flow in the region of the stagnation point towards a stretching sheet. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 475-481.	1.7	126
6	A novel chaotic image encryption technique based on multiple discrete dynamical maps. Multimedia Tools and Applications, 2019, 78, 26203-26222.	2.6	122
7	An efficient method for the construction of block cipher with multi-chaotic systems. Nonlinear Dynamics, 2013, 71, 489-492.	2.7	111
8	A novel image encryption scheme based on multiple chaotic S-boxes. Nonlinear Dynamics, 2015, 82, 527-533.	2.7	102
9	An efficient construction of substitution box with fractional chaotic system. Signal, Image and Video Processing, 2015, 9, 1335-1338.	1.7	86
10	A New Efficient Digital Image Encryption Based on Inverse Left Almost Semi Group and Lorenz Chaotic System. Entropy, 2018, 20, 913.	1.1	86
11	A new comparative study between homotopy analysis transform method and homotopy perturbation transform method on a semi infinite domain. Mathematical and Computer Modelling, 2012, 55, 1143-1150.	2.0	85
12	An efficient technique for the construction of substitution box with chaotic partial differential equation. Nonlinear Dynamics, 2013, 73, 1795-1801.	2.7	82
13	An efficient chaotic image encryption scheme. Neural Computing and Applications, 2015, 26, 1137-1148.	3.2	80
14	A novel image encryption scheme based on quantum dynamical spinning and rotations. PLoS ONE, 2018, 13, e0206460.	1.1	63
15	A construction of novel chaos base nonlinear component of block cipher. Nonlinear Dynamics, 2014, 76, 377-382.	2.7	61
16	An efficient image encryption scheme based on chaotic and Deoxyribonucleic acid sequencing. Mathematics and Computers in Simulation, 2020, 177, 441-466.	2.4	61
17	A novel image encryption technique based on Hénon chaotic map and S8 symmetric group. Neural Computing and Applications, 2014, 25, 1717-1722.	3.2	60
18	Application of Laplace decomposition method on semi-infinite domain. Numerical Algorithms, 2011, 56, 211-218.	1.1	55

#	Article	IF	Citations
19	A new implementation of chaotic S-boxes in CAPTCHA. Signal, Image and Video Processing, 2016, 10, 293-300.	1.7	50
20	A Novel Image Encryption Technique Based on Generalized Advanced Encryption Standard Based on Field of Any Characteristic. Wireless Personal Communications, 2019, 109, 849-867.	1.8	48
21	Application Based Construction and Optimization of Substitution Boxes Over 2D Mixed Chaotic Maps. International Journal of Theoretical Physics, 2019, 58, 3091-3117.	0.5	46
22	A new approach to digital content privacy using quantum spin and finite-state machine. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	44
23	An Encryption Scheme Based on Discrete Quantum Map and Continuous Chaotic System. International Journal of Theoretical Physics, 2020, 59, 1227-1240.	0.5	42
24	A new analytical solution procedure for nonlinear integral equations. Mathematical and Computer Modelling, 2012, 55, 1892-1897.	2.0	39
25	A new construction of confusion component of block ciphers. Multimedia Tools and Applications, 2019, 78, 32585-32604.	2.6	39
26	A novel image encryption technique using hybrid method of discrete dynamical chaotic maps and Brownian motion. PLoS ONE, 2019, 14, e0225031.	1.1	36
27	Image privacy scheme using quantum spinning and rotation. Journal of Electronic Imaging, 2018, 27, 1.	0.5	36
28	Information Confidentiality Using Quantum Spinning, Rotation and Finite State Machine. International Journal of Theoretical Physics, 2018, 57, 3584-3594.	0.5	35
29	A novel solution procedure for fuzzy fractional heat equations by homotopy analysis transform method. Neural Computing and Applications, 2013, 23, 269-271.	3.2	32
30	A Literature Review on Image Encryption Techniques. 3D Research, 2014, 5, 1.	1.8	32
31	A Novel Digital Contents Privacy Scheme Based on Kramerâ€™s Arbitrary Spin. International Journal of Theoretical Physics, 2019, 58, 2720-2743.	0.5	32
32	Stagnation Flow of a Jeffrey Fluid over a Shrinking Sheet. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 540-548.	0.7	31
33	A new approach for image encryption and watermarking based on substitution box over the classes of chain rings. Multimedia Tools and Applications, 2017, 76, 24027-24062.	2.6	31
34	Secure image encryption scheme based on fractals key with Fibonacci series and discrete dynamical system. Neural Computing and Applications, 2020, 32, 11837-11857.	3.2	30
35	A novel hybrid encryption scheme based on chaotic Lorenz system and logarithmic key generation. Multimedia Tools and Applications, 2020, 79, 23507-23529.	2.6	30
36	Construction of new S-boxes based on triangle groups and its applications in copyright protection. Multimedia Tools and Applications, 2019, 78, 15527-15544.	2.6	27

#	ARTICLE	IF	CITATIONS
37	Identifying high potential locations for run-of-the-river hydroelectric power plants using GIS and digital elevation models. Renewable and Sustainable Energy Reviews, 2018, 89, 106-116.	8.2	26
38	An efficient image privacy scheme based on nonlinear chaotic system and linear canonical transformation. Physica A: Statistical Mechanics and Its Applications, 2020, 546, 123458.	1.2	26
39	An encryption scheme based on chaotic Rabinovich-Fabrikant system and S8 confusion component. Multimedia Tools and Applications, 2021, 80, 7967-7985.	2.6	26
40	Cryptanalysis of Novel Image Encryption Scheme Based on Multiple Chaotic Substitution Boxes. IEEE Access, 2021, 9, 93795-93802.	2.6	24
41	A reliable treatment of Abelâ€™s second kind singular integral equations. Applied Mathematics Letters, 2012, 25, 1666-1670.	1.5	23
42	A color image watermarking scheme based on affine transformation and S 4 permutation. Neural Computing and Applications, 2014, 25, 2037-2045.	3.2	23
43	Circuit implementation of 3D chaotic self-exciting single-disk homopolar dynamo and its application in digital image confidentiality. Wireless Networks, 2020, , 1.	2.0	23
44	Cryptanalysis of hybrid secure image encryption based on Julia set fractals and three-dimensional Lorenz chaotic map. Mathematics and Computers in Simulation, 2021, 190, 826-836.	2.4	23
45	A novel solution technique for two dimensional Burgerâ€™s equation. AEJ - Alexandria Engineering Journal, 2014, 53, 485-490.	3.4	22
46	A hybrid cryptosystem for digital contents confidentiality based on rotation of quantum spin states. Physica A: Statistical Mechanics and Its Applications, 2020, 554, 123908.	1.2	22
47	A Novel Statistical Analysis of Chaotic S-box in Image Encryption. 3D Research, 2014, 5, 1.	1.8	21
48	A Generalization of Algebraic Expression for Nonlinear Component of Symmetric Key Algorithms of Any Characteristic p. , 2018, , .		21
49	A new watermarking scheme based on Daubechies wavelet and chaotic map for quick response code images. Multimedia Tools and Applications, 2020, 79, 6891-6914.	2.6	21
50	A novel image encryption based on rossler map diffusion and particle swarm optimization generated highly non-linear substitution boxes. Chinese Journal of Physics, 2021, 72, 558-574.	2.0	21
51	A novel construction of substitution box with Zaslavskii chaotic map and symmetric group. Journal of Intelligent and Fuzzy Systems, 2015, 28, 1509-1517.	0.8	19
52	A Privacy Scheme for Digital Images Based on Quantum Particles. International Journal of Theoretical Physics, 2019, 58, 4293-4310.	0.5	19
53	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. IEEE Access, 2021, 9, 105678-105685.	2.6	19
54	A copyright protection using watermarking scheme based on nonlinear permutation and its quality metrics. Neural Computing and Applications, 2015, 26, 845-855.	3.2	18

#	ARTICLE	IF	CITATIONS
55	Cryptanalysis of nonlinear confusion component based encryption algorithm. The Integration VLSI Journal, 2021, 79, 41-47.	1.3	18
56	A novel image encryption using Fourier series. JVC/Journal of Vibration and Control, 2015, 21, 3450-3455.	1.5	17
57	An efficient image encryption scheme based on fractal Tromino and Chebyshev polynomial. Complex & Intelligent Systems, 2021, 7, 2751-2764.	4.0	17
58	A novel digital contents privacy scheme based on quantum harmonic oscillator and schrodinger paradox. Wireless Networks, 0, , 1.	2.0	16
59	Galois Ring $$GRleft({2^{3} ,8} ight)$$ Dependent $$24 imes 24$$ S-Box Design: An RGB Image Encryption Application. Wireless Personal Communications, 2020, 113, 1201-1224.	1.8	16
60	An Efficient Public Key Cryptosystem Based on Dihedral Group and Quantum Spin States. IEEE Access, 2020, 8, 71821-71832.	2.6	15
61	Texture Analysis of Chaotic Coupled Map Lattices Based Image Encryption Algorithm. 3D Research, 2014, 5, 1.	1.8	14
62	An efficient image encryption scheme based on double affine substitution box and chaotic system. The Integration VLSI Journal, 2021, 81, 108-122.	1.3	13
63	A novel analytical solution of a fractional diffusion problem by homotopy analysis transform method. Neural Computing and Applications, 2013, 23, 1643-1647.	3.2	11
64	New extension of data encryption standard over 128-bit key for digital images. Neural Computing and Applications, 2021, 33, 13845-13858.	3.2	10
65	A New Analytical Approach To Solve Exponential Stretching Sheet Problem In Fluid Mechanics By Variational Iterative Pade Method. Journal of Mathematics and Computer Science, 2011, 03, 135-144.	0.5	10
66	Cryptanalysis and Improvement of Novel Image Encryption Technique Using Hybrid Method of Discrete Dynamical Chaotic Maps and Brownian Motion. Multimedia Tools and Applications, 2022, 81, 6571-6584.	2.6	10
67	A new modified Laplace decomposition method for higher order boundary value problems. Computational and Mathematical Organization Theory, 2013, 19, 446-459.	1.5	8
68	A new technique for the construction of confusion component based on inverse LA-semigroups and its application in steganography. Multimedia Tools and Applications, 2021, 80, 28857-28877.	2.6	8
69	Homotopy Perturbation Padé Transform Method for Blasius Flow Equation Using He's Polynomials. International Journal of Nonlinear Sciences and Numerical Simulation, 2011, 12, 1-7.	0.4	7
70	Solution of the heat equation in the castmould heterogeneous domain using a weighted algorithm based on the homotopy perturbation method. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 451-459.	1.6	7
71	A new algorithm for higher order integro-differential equations. Afrika Matematika, 2015, 26, 247-255.	0.4	7
72	A novel combination of information hiding and confidentiality scheme. Multimedia Tools and Applications, 2020, 79, 30983-31005.	2.6	7

#	Article	IF	Citations
73	Image encryption scheme for multi-focus images for visual sensors network. Multimedia Tools and Applications, 2022, 81, 16353-16370.	2.6	7
74	Cryptanalysis of encryption scheme based on compound coupled logistic map and anti-codifying technique for secure data transmission. Optik, 2022, 267, 169628.	1.4	7
75	Homotopy Perturbation Method for Nonlinear Exponential Boundary Layer Equation using Laplace Transformation, He's Polynomials and Pade Technology He's Polynomials and Pade Technology. International Journal of Nonlinear Sciences and Numerical Simulation, 2010, 11, .	0.4	6
76	A hybrid chaotic blowfish encryption for high-resolution satellite imagery. Multimedia Tools and Applications, 2021, 80, 26069.	2.6	6
77	Quantum Spin Half Algebra and Generalized Megrelishvili Protocol for Confidentiality of Digital Images. International Journal of Theoretical Physics, 2021, 60, 1720-1741.	0.5	6
78	A Novel Hybrid Secure Confidentiality Mechanism for Medical Environment Based on Kramerâ€™s Spin Principle. International Journal of Theoretical Physics, 2021, 60, 314-330.	0.5	6
79	A Novel Cryptosystem Based on General Linear Group. 3D Research, 2015, 6, 1.	1.8	5
80	Quantum Harmonic Oscillator and Schrodinger Paradox Based Nonlinear Confusion Component. International Journal of Theoretical Physics, 2020, 59, 3558-3573.	0.5	5
81	New combination of simple additive and entropy weighting criteria for the selection of best substitution box. Journal of Intelligent and Fuzzy Systems, 2021, 41, 2325-2338.	0.8	5
82	A Novel Analytical Implementation of Nonlinear Volterra Integral Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 674-678.	0.7	4
83	A New Analytical Approach to Solve Magnetohydrodynamics Flow Over a Nonlinear Porous Stretching Sheet by Laplace PadÃ© Decomposition Method. Results in Mathematics, 2013, 63, 289-301.	0.4	4
84	Lightweight Chaos-Based Nonlinear Component of Block Ciphers. Wireless Personal Communications, 2021, 120, 3017-3034.	1.8	4
85	New Computational Dynamics for Magnetohydrodynamics Flow over a Nonlinear Stretching Sheet. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 262-266.	0.7	3
86	A novel fractional Laplace decomposition method for chaotic systems and the generation of chaotic sequences. JVC/Journal of Vibration and Control, 2014, 20, 2530-2535.	1.5	3
87	Introduction to Linguistic Steganography. Nonlinear Engineering, 2015, 4, .	1.4	3
88	Optimum criterion for lightweight nonlinear confusion component with multi-criteria decision making. Journal of Intelligent and Fuzzy Systems, 2021, 40, 12399-12410.	0.8	3
89	Pauli Half Spinning and Elliptic Curve Based Information Confidentiality Mechanism. International Journal of Theoretical Physics, 2021, 60, 3631-3650.	0.5	3
90	Differential cryptanalysis of diffusion and confusion based information confidentiality mechanism. Optik, 2022, 259, 168989.	1.4	3

#	Article	IF	Citations
91	A Numerical Algorithm for Solving Nonlinear Delay Volterra Integral Equations by Means of Homotopy Perturbation Method. International Journal of Nonlinear Sciences and Numerical Simulation, 2011, 12, 15-21.	0.4	2
92	An efficient analytical treatment of twelve order boundary value problems. Engineering Computations, 2014, 31, 59-68.	0.7	2
93	Parentâ€"Daughter Confusion Component: A New Approach for the Construction of Nonlinear Confusion Component. Wireless Personal Communications, 2021, 120, 3095-3115.	1.8	2
94	A dual layer security scheme for medical images using Hessenberg and singular value decompositions. Multimedia Tools and Applications, 2022, 81, 14001-14022.	2.6	2
95	An efficient computational approach for hydromagnetic stagnation flow towards a stretching sheet. Afrika Matematika, 2013, 24, 321-329.	0.4	1
96	A new Analytical Solution Procedure for the Motion of a Spherical Particle in a Plane Couette Flow. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 319-326.	0.7	1
97	Utilization of Small S-Boxes for Information Hiding. , 2018, , 511-540.		1
98	An Efficient Digital Confidentiality Scheme Based on Commutative Chaotic Polynomial. Multimedia Tools and Applications, 2022, 81, 33591-33611.	2.6	1
99	A brief description about the fathers of computer and information sciences. Nonlinear Engineering, 2015, 4, .	1.4	0
100	An Efficient Information Hiding Mechanism Based on Confusion Component over Local Ring and Moore-Penrose Pseudo Inverse. WSEAS Transactions on Mathematics, 2021, 20, 24-36.	0.2	0
101	Nonlinearity of nonbalanced and nearly bent boolean functions based on Galois ring. Journal of Intelligent and Fuzzy Systems, 2022, , 1-15.	0.8	0