Majid Khan

List of Publications by Year in Descending Order

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	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	2.5	2
98	Nonlinearity of nonbalanced and nearly bent boolean functions based on Galois ring. *Journal of Intelligent and Fuzzy Systems*, **2022**, 1-15	1.6	
97	Differential cryptanalysis of diffusion and confusion based information confidentiality mechanism. *Optik*, **2022**, 259, 168989	2.5	1
96	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	0.5	
95	A hybrid chaotic blowfish encryption for high-resolution satellite imagery. *Multimedia Tools and Applications*, **2021**, 80, 26069	2.5	1
94	Quantum Spin Half Algebra and Generalized Megrelishvili Protocol for Confidentiality of Digital Images. *International Journal of Theoretical Physics*, **2021**, 60, 1720-1741	1.1	2
93	ParentÐaughter Confusion Component: A New Approach for the Construction of Nonlinear Confusion Component. *Wireless Personal Communications*, **2021**, 120, 3095	1.9	1
92	Lightweight Chaos-Based Nonlinear Component of Block Ciphers. *Wireless Personal Communications*, **2021**, 120, 3017	1.9	1
91	Optimum criterion for lightweight nonlinear confusion component with multi-criteria decision making. *Journal of Intelligent and Fuzzy Systems*, **2021**, 40, 12399-12410	1.6	0
90	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	2.5	5
89	New extension of data encryption standard over 128-bit key for digital images. *Neural Computing and Applications*, **2021**, 33, 13845	4.8	1
88	An encryption scheme based on chaotic Rabinovich-Fabrikant system and S8 confusion component. *Multimedia Tools and Applications*, **2021**, 80, 7967-7985	2.5	14
87	Cryptanalysis of Novel Image Encryption Scheme Based on Multiple Chaotic Substitution Boxes. *IEEE Access*, **2021**, 9, 93795-93802	3.5	10
86	An efficient image encryption scheme based on fractal Tromino and Chebyshev polynomial. *Complex & Intelligent Systems*, **2021**, 7, 2751	7.1	4
85	Cryptanalysis of nonlinear confusion component based encryption algorithm. *The Integration VLSI Journal*, **2021**, 79, 41-47	1.4	10
84	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	3.5	5
83	Pauli Half Spinning and Elliptic Curve Based Information Confidentiality Mechanism. *International Journal of Theoretical Physics*, **2021**, 60, 3631-3650	1.1	1

82	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	1.6	2
81	An efficient image encryption scheme based on double affine substitution box and chaotic system. *The Integration VLSI Journal*, **2021**, 81, 108-122	1.4	6
80	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	3.3	7
79	A Novel Hybrid Secure Confidentiality Mechanism for Medical Environment Based on Kramers Spin Principle. *International Journal of Theoretical Physics*, **2021**, 60, 314-330	1.1	5
78	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. *IEEE Access*, **2021**, 9, 105678-105685	3.5	10
77	An efficient image encryption scheme based on chaotic and Deoxyribonucleic acid sequencing. *Mathematics and Computers in Simulation*, **2020**, 177, 441-466	3.3	27
76	Circuit implementation of 3D chaotic self-exciting single-disk homopolar dynamo and its application in digital image confidentiality. *Wireless Networks*, **2020**, 1	2.5	18
75	A novel digital contents privacy scheme based on quantum harmonic oscillator and schrodinger paradox. *Wireless Networks*, **2020**, 1	2.5	9
74	A novel hybrid encryption scheme based on chaotic Lorenz system and logarithmic key generation. *Multimedia Tools and Applications*, **2020**, 79, 23507-23529	2.5	16
73	An Encryption Scheme Based on Discrete Quantum Map and Continuous Chaotic System. *International Journal of Theoretical Physics*, **2020**, 59, 1227-1240	1.1	25
72	An Efficient Public Key Cryptosystem Based on Dihedral Group and Quantum Spin States. *IEEE Access*, **2020**, 8, 71821-71832	3.5	7
71	An efficient image privacy scheme based on nonlinear chaotic system and linear canonical transformation. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 546, 123458	3.3	20
70	Secure image encryption scheme based on fractals key with Fibonacci series and discrete dynamical system. *Neural Computing and Applications*, **2020**, 32, 11837-11857	4.8	18
69	A hybrid cryptosystem for digital contents confidentiality based on rotation of quantum spin states. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 554, 123908	3.3	14
68	A new watermarking scheme based on Daubechies wavelet and chaotic map for quick response code images. *Multimedia Tools and Applications*, **2020**, 79, 6891-6914	2.5	13
67	Quantum Harmonic Oscillator and Schrodinger Paradox Based Nonlinear Confusion Component. *International Journal of Theoretical Physics*, **2020**, 59, 3558-3573	1.1	4
66	A novel combination of information hiding and confidentiality scheme. *Multimedia Tools and Applications*, **2020**, 79, 30983-31005	2.5	4
65	Galois Ring (GRleft({2^{3} ,8} right)) Dependent (24 times 24) S-Box Design: An RGB Image Encryption Application. *Wireless Personal Communications*, **2020**, 113, 1201-1224	1.9	10

64	A new approach to digital content privacy using quantum spin and finite-state machine. *Applied Physics B: Lasers and Optics*, **2019**, 125, 1	1.9	37
63	A Novel Digital Contents Privacy Scheme Based on Kramer Arbitrary Spin. *International Journal of Theoretical Physics*, **2019**, 58, 2720-2743	1.1	30
62	A novel chaotic image encryption technique based on multiple discrete dynamical maps. *Multimedia Tools and Applications*, **2019**, 78, 26203-26222	2.5	64
61	A Novel Image Encryption Technique Based on Generalized Advanced Encryption Standard Based on Field of Any Characteristic. *Wireless Personal Communications*, **2019**, 109, 849-867	1.9	36
60	A new construction of confusion component of block ciphers. *Multimedia Tools and Applications*, **2019**, 78, 32585-32604	2.5	33
59	Application Based Construction and Optimization of Substitution Boxes Over 2D Mixed Chaotic Maps. *International Journal of Theoretical Physics*, **2019**, 58, 3091-3117	1.1	38
58	A Privacy Scheme for Digital Images Based on Quantum Particles. *International Journal of Theoretical Physics*, **2019**, 58, 4293-4310	1.1	15
57	A novel image encryption technique using hybrid method of discrete dynamical chaotic maps and Brownian motion. *PLoS ONE*, **2019**, 14, e0225031	3.7	21
56	Construction of new S-boxes based on triangle groups and its applications in copyright protection. *Multimedia Tools and Applications*, **2019**, 78, 15527-15544	2.5	22
55	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	16.2	16
54	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	4.8	104
53	Image privacy scheme using quantum spinning and rotation. *Journal of Electronic Imaging*, **2018**, 27, 1	0.7	31
52	Utilization of Small S-Boxes for Information Hiding **2018**, 511-540		1
51	A novel image encryption scheme based on quantum dynamical spinning and rotations. *PLoS ONE*, **2018**, 13, e0206460	3.7	50
50	A Generalization of Algebraic Expression for Nonlinear Component of Symmetric Key Algorithms of Any Characteristic p **2018**,		20
49	A New Efficient Digital Image Encryption Based on Inverse Left Almost Semi Group and Lorenz Chaotic System. *Entropy*, **2018**, 20,	2.8	55
48	Information Confidentiality Using Quantum Spinning, Rotation and Finite State Machine. *International Journal of Theoretical Physics*, **2018**, 57, 3584-3594	1.1	32
47	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	2.5	24

46	Efficient cryptosystem approaches: S-boxes and permutation substitution-based encryption. *Nonlinear Dynamics*, **2017**, 87, 337-361	5	144
45	Construction of S-box based on chaotic Boolean functions and its application in image encryption. *Neural Computing and Applications*, **2016**, 27, 677-685	4.8	103
44	A new implementation of chaotic S-boxes in CAPTCHA. *Signal, Image and Video Processing*, **2016**, 10, 293-300	1.8	41
43	A Novel Cryptosystem Based on General Linear Group. *3D Research*, **2015**, 6, 1	2.4	4
42	A novel construction of substitution box with Zaslavskii chaotic map and symmetric group. *Journal of Intelligent and Fuzzy Systems*, **2015**, 28, 1509-1517	1.6	17
41	A copyright protection using watermarking scheme based on nonlinear permutation and its quality metrics. *Neural Computing and Applications*, **2015**, 26, 845-855	4.8	16
40	An efficient chaotic image encryption scheme. *Neural Computing and Applications*, **2015**, 26, 1137-1148	4.8	64
39	An efficient construction of substitution box with fractional chaotic system. *Signal, Image and Video Processing*, **2015**, 9, 1335-1338	1.6	59
38	A new algorithm for higher order integro-differential equations. *Afrika Matematika*, **2015**, 26, 247-255	0.7	4
37	A novel image encryption using Fourier series. *JVC/Journal of Vibration and Control*, **2015**, 21, 3450-3455	2	16
36	Introduction to Linguistic Steganography. *Nonlinear Engineering*, **2015**, 4,	3	3
35	A novel image encryption scheme based on multiple chaotic S-boxes. *Nonlinear Dynamics*, **2015**, 82, 527-533	5	86
34	An efficient analytical treatment of twelve order boundary value problems. *Engineering Computations*, **2014**, 31, 59-68	1.4	2
33	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	2	2
32	Texture Analysis of Chaotic Coupled Map Lattices Based Image Encryption Algorithm. *3D Research*, **2014**, 5, 1	2.4	13
31	A Literature Review on Image Encryption Techniques. *3D Research*, **2014**, 5, 1	2.4	18
30	A Novel Statistical Analysis of Chaotic S-box in Image Encryption. *3D Research*, **2014**, 5, 1	2.4	18
29	A novel solution technique for two dimensional Burgers equation. *AEJ - Alexandria Engineering Journal*, **2014**, 53, 485-490	6.1	15

28	A novel image encryption technique based on Hénon chaotic map and S8 symmetric group. *Neural Computing and Applications*, **2014**, 25, 1717-1722	4.8	45
27	A color image watermarking scheme based on affine transformation and S 4 permutation. *Neural Computing and Applications*, **2014**, 25, 2037-2045	4.8	19
26	A construction of novel chaos base nonlinear component of block cipher. *Nonlinear Dynamics*, **2014**, 76, 377-382	5	49
25	An efficient computational approach for hydromagnetic stagnation flow towards a stretching sheet. *Afrika Matematika*, **2013**, 24, 321-329	0.7	1
24	An efficient technique for the construction of substitution box with chaotic partial differential equation. *Nonlinear Dynamics*, **2013**, 73, 1795-1801	5	60
23	A New Analytical Approach to Solve Magnetohydrodynamics Flow Over a Nonlinear Porous Stretching Sheet by Laplace Padé Decomposition Method. *Results in Mathematics*, **2013**, 63, 289-301	0.9	4
22	A novel analytical solution of a fractional diffusion problem by homotopy analysis transform method. *Neural Computing and Applications*, **2013**, 23, 1643-1647	4.8	10
21	A novel solution procedure for fuzzy fractional heat equations by homotopy analysis transform method. *Neural Computing and Applications*, **2013**, 23, 269-271	4.8	23
20	An efficient method for the construction of block cipher with multi-chaotic systems. *Nonlinear Dynamics*, **2013**, 71, 489-492	5	94
19	A new modified Laplace decomposition method for higher order boundary value problems. *Computational and Mathematical Organization Theory*, **2013**, 19, 446-459	2.1	8
18	Solution of the heat equation in the cast-mould 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	4.5	5
17	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	1.4	1
16	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		64
15	A new analytical solution procedure for nonlinear integral equations. *Mathematical and Computer Modelling*, **2012**, 55, 1892-1897		35
14	A novel technique for the construction of strong S-boxes based on chaotic Lorenz systems. *Nonlinear Dynamics*, **2012**, 70, 2303-2311	5	108
13	A reliable treatment of Abel's second kind singular integral equations. *Applied Mathematics Letters*, **2012**, 25, 1666-1670	3.5	21
12	New Computational Dynamics for Magnetohydrodynamics Flow over a Nonlinear Stretching Sheet. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2012**, 67, 262-266	1.4	3
11	A Novel Analytical Implementation of Nonlinear Volterra Integral Equations. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2012**, 67, 674-678	1.4	3

10	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	1.8	7
9	Application of Laplace decomposition method on semi-infinite domain. *Numerical Algorithms*, **2011**, 56, 211-218	2.1	44
8	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	1.8	2
7	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	2.6	8
6	Stagnation Flow of a Jeffrey Fluid over a Shrinking Sheet. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2010**, 65, 540-548	1.4	29
5	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,	1.8	1
4	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	3.7	111
3	A dual layer security scheme for medical images using Hessenberg and singular value decompositions. *Multimedia Tools and Applications*,1	2.5	
2	Image encryption scheme for multi-focus images for visual sensors network. *Multimedia Tools and Applications*,1	2.5	0
1	An Efficient Digital Confidentiality Scheme Based on Commutative Chaotic Polynomial. *Multimedia Tools and Applications*,1	2.5	