

Iqtadar hussain

List of Publications by Citations

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95
papers

1,849
citations

27
h-index

39
g-index

96
ext. papers

2,272
ext. citations

2.9
avg, IF

5.68
L-index

#	Paper	IF	Citations
95	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
94	A projective general linear group based algorithm for the construction of substitution box for block ciphers. <i>Neural Computing and Applications</i> , 2013 , 22, 1085-1093	4.8	94
93	A group theoretic approach to construct cryptographically strong substitution boxes. <i>Neural Computing and Applications</i> , 2013 , 23, 97-104	4.8	78
92	Extension of TOPSIS method base on Choquet integral under interval-valued Pythagorean fuzzy environment. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 34, 267-282	1.6	75
91	A novel approach for designing substitution-boxes based on nonlinear chaotic algorithm. <i>Nonlinear Dynamics</i> , 2012 , 70, 1791-1794	5	66
90	An efficient approach for the construction of LFT S-boxes using chaotic logistic map. <i>Nonlinear Dynamics</i> , 2013 , 71, 133-140	5	64
89	Application of S-box and chaotic map for image encryption. <i>Mathematical and Computer Modelling</i> , 2013 , 57, 2576-2579		63
88	Image encryption algorithm based on PGL(2,GF(28)) S-boxes and TD-ERCS chaotic sequence. <i>Nonlinear Dynamics</i> , 2012 , 70, 181-187	5	63
87	A technique for digital steganography using chaotic maps. <i>Nonlinear Dynamics</i> , 2014 , 75, 807-816	5	59
86	An extended image encryption using chaotic coupled map and S-box transformation. <i>Nonlinear Dynamics</i> , 2014 , 76, 1355-1363	5	55
85	A Novel Hybrid Secure Image Encryption Based on Julia Set of Fractals and 3D Lorenz Chaotic Map. <i>Entropy</i> , 2020 , 22,	2.8	46
84	An efficient scheme for digital watermarking using chaotic map. <i>Nonlinear Dynamics</i> , 2013 , 73, 1469-1474		46
83	Construction of S8 Liu J S-boxes and their applications. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 2450-2458	2.7	46
82	An efficient image encryption algorithm based on S8 S-box transformation and NCA map. <i>Optics Communications</i> , 2012 , 285, 4887-4890	2	42
81	Stego optical encryption based on chaotic S-box transformation. <i>Optics and Laser Technology</i> , 2014 , 61, 50-56	4.2	41
80	Literature survey on nonlinear components and chaotic nonlinear components of block ciphers. <i>Nonlinear Dynamics</i> , 2013 , 74, 869-904	5	36
79	A novel image encryption algorithm based on chaotic maps and GF(28) exponent transformation. <i>Nonlinear Dynamics</i> , 2013 , 72, 399-406	5	35

78	Generalized Majority Logic Criterion to Analyze the Statistical Strength of S-Boxes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2012 , 67, 282-288	1.4	34
77	Construction of Cryptographic S-Boxes Based on Mobius Transformation and Chaotic Tent-Sine System. <i>IEEE Access</i> , 2019 , 7, 173273-173285	3.5	34
76	A new oscillator with mega-stability and its Hamilton energy: Infinite coexisting hidden and self-excited attractors. <i>Chaos</i> , 2020 , 30, 033112	3.3	31
75	Construction of chaotic quantum magnets and matrix Lorenz systems S-boxes and their applications. <i>Chinese Journal of Physics</i> , 2018 , 56, 1609-1621	3.5	30
74	Efficient method for designing chaotic S-boxes based on generalized Baker's map and TDERC chaotic sequence. <i>Nonlinear Dynamics</i> , 2013 , 74, 271-275	5	29
73	An algorithm for the construction of substitution box for block ciphers based on projective general linear group. <i>AIP Advances</i> , 2017 , 7, 035116	1.5	28
72	Fabrication and applications of nickel selenide. <i>Journal of Solid State Chemistry</i> , 2019 , 277, 316-328	3.3	28
71	A noise resistant symmetric key cryptosystem based on S8 S-boxes and chaotic maps. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	28
70	A novel method for designing nonlinear component for block cipher based on TD-ERCS chaotic sequence. <i>Nonlinear Dynamics</i> , 2013 , 73, 633-637	5	28
69	Construction of S-Box Based on Chaotic Map and Algebraic Structures. <i>Symmetry</i> , 2019 , 11, 351	2.7	27
68	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
67	Birth and death of spiral waves in a network of Hindmarsh-Rose neurons with exponential magnetic flux and excitable media. <i>Applied Mathematics and Computation</i> , 2019 , 354, 377-384	2.7	24
66	A novel design for the construction of safe S-boxes based on TDERC sequence. <i>AEJ - Alexandria Engineering Journal</i> , 2015 , 54, 65-69	6.1	24
65	A novel approach of audio watermarking based on . <i>Mathematical and Computer Modelling</i> , 2013 , 57, 963-969		24
64	A new megastable nonlinear oscillator with infinite attractors. <i>Chaos, Solitons and Fractals</i> , 2020 , 134, 109703	9.3	23
63	A Power Associative Loop Structure for the Construction of Non-Linear Components of Block Cipher. <i>IEEE Access</i> , 2020 , 8, 123492-123506	3.5	19
62	A Scheme for Obtaining Secure S-Boxes Based on Chaotic Baker's Map. <i>3D Research</i> , 2014 , 5, 1	2.4	19
61	Application of Mean of Absolute Deviation Method for the Selection of Best Nonlinear Component Based on Video Encryption. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013 , 68, 479-482	1.4	19

60	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
59	Image encryption algorithm based on total shuffling scheme and chaotic S-box transformation. <i>JVC/Journal of Vibration and Control</i> , 2014 , 20, 2133-2136	2	17
58	Substitution Box on Maximal Cyclic Subgroup of Units of a Galois Ring. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013 , 68, 567-572	1.4	17
57	A Novel Method to Identify Initial Values of Chaotic Maps in Cybersecurity. <i>Symmetry</i> , 2019 , 11, 140	2.7	16
56	A Privacy Scheme for Digital Images Based on Quantum Particles. <i>International Journal of Theoretical Physics</i> , 2019 , 58, 4293-4310	1.1	15
55	Chimeras in an adaptive neuronal network with burst-timing-dependent plasticity. <i>Neurocomputing</i> , 2020 , 406, 117-126	5.4	14
54	Analysis of S-box in Image Encryption Using Root Mean Square Error Method. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2012 , 67, 327-332	1.4	14
53	Copper selenide thin films from growth to applications. <i>Solid State Sciences</i> , 2020 , 100, 106101	3.4	14
52	On Some Statistical Approximation by (p,q)-Bleimann, Butzer and Hahn Operators. <i>Symmetry</i> , 2018 , 10, 731	2.7	12
51	Wave propagation and spiral wave formation in a Hindmarsh-Rose neuron model with fractional-order threshold memristor synaps. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2050157 ^{1,1}	1.1	11
50	S8 affine-power-affine S-boxes and their applications. <i>Neural Computing and Applications</i> , 2012 , 21, 377-388	3.8	11
49	A novel algorithm for thermal image encryption. <i>Journal of Integrative Neuroscience</i> , 2018 , 17, 447-461	1.5	10
48	A image encryption algorithm based on chaotic Lorenz system and novel primitive polynomial S-boxes. <i>Multimedia Tools and Applications</i> , 2021 , 80, 24801	2.5	10
47	Cryptanalysis of Novel Image Encryption Scheme Based on Multiple Chaotic Substitution Boxes. <i>IEEE Access</i> , 2021 , 9, 93795-93802	3.5	10
46	Cryptanalysis of nonlinear confusion component based encryption algorithm. <i>The Integration VLSI Journal</i> , 2021 , 79, 41-47	1.4	10
45	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. <i>IEEE Access</i> , 2021 , 9, 105678-105685	3.5	10
44	A Robust Watermarking Scheme for Online Multimedia Copyright Protection Using New Chaotic Map. <i>Security and Communication Networks</i> , 2018 , 2018, 1-20	1.9	9
43	Dynamic Substitution and Confusion-Diffusion-Based Noise-Resistive Image Encryption Using Multiple Chaotic Maps. <i>IEEE Access</i> , 2021 , 9, 52277-52291	3.5	9

42	An image encryption technique based on coupled map lattice and one-time S-Boxes based on complex chaotic system. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 1493-1500	1.6	8
41	Manganese selenide: Synthetic aspects and applications. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155800	5.7	7
40	Chaotic dynamics of a fractional order glucose-insulin regulatory system. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020 , 21, 1108-1118	2.2	7
39	Metal telluride nanotubes: Synthesis, and applications. <i>Materials Chemistry and Physics</i> , 2020 , 256, 123691-123694	4.4	7
38	Chimera State in the Network of Fractional-Order FitzHugh-Nagumo Neurons. <i>Complexity</i> , 2021 , 2021, 1-9	1.6	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	Multistable dynamics and control of a new 4D memristive chaotic Sprott B system. <i>Chaos, Solitons and Fractals</i> , 2022 , 156, 111834	9.3	6
35	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
34	Linear triangular optimization technique and pricing scheme in residential energy management systems. <i>Results in Physics</i> , 2018 , 9, 858-865	3.7	5
33	True-chaotic substitution box based on Boolean functions. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	5
32	A New Megastable Chaotic Oscillator with Blinking Oscillation terms. <i>Complexity</i> , 2021 , 2021, 1-12	1.6	5
31	Cadmium selenide nanowires from growth to applications. <i>Materials Research Express</i> , 2019 , 6, 122007	1.7	5
30	A Novel Hybrid Secure Confidentiality Mechanism for Medical Environment Based on Kramer's Spin Principle. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 314-330	1.1	5
29	Construction of New S-Boxes Over Finite Field and Their Application to Watermarking. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2012 , 67, 705-710	1.4	4
28	Synthetic efforts and applications of metal selenide nanotubes. <i>Materials Science in Semiconductor Processing</i> , 2021 , 126, 105656	4.3	4
27	Construction of Substitution Box Based on Piecewise Linear Chaotic Map and S8 Group. <i>3D Research</i> , 2015 , 6, 1	2.4	3
26	Use of surfactants to tailor the morphologies and crystalline phases of thin films via aerosol assisted chemical vapor deposition. <i>Journal of Solid State Chemistry</i> , 2020 , 288, 121429	3.3	3
25	Analyses of S-Box in Image Encryption Applications Based on Fuzzy Decision Making Criterion. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014 , 69, 207-214	1.4	3

24	A novel symmetric image cryptosystem resistant to noise perturbation based on S8 elliptic curve S-boxes and chaotic maps. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	3
23	A New Circumscribed Self-Excited Spherical Strange Attractor. <i>Complexity</i> , 2021 , 2021, 1-8	1.6	3
22	Applied Cryptography and Noise Resistant Data Security. <i>Security and Communication Networks</i> , 2018 , 2018, 1-2	1.9	3
21	Oyster oscillator: a novel mega-stable nonlinear chaotic system. <i>European Physical Journal: Special Topics</i> , 2021 , 2021, 1-8	2.3	3
20	An Algorithm to Generating Inverse S-box for Rijndael Encryption Standard. <i>3D Research</i> , 2014 , 5, 1	2.4	2
19	Stego Optical Encryption Based on Chaotic Baker's Map Transformation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014 , 69, 249-253	1.4	2
18	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
17	Chimera states in a multi-weighted neuronal network. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 424, 127847	2.3	2
16	A Noise-Tolerant Audio Encryption Framework Designed by the Application of S8 Symmetric Group and Chaotic Systems. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-15	1.1	2
15	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
14	An Efficient Method for Secure Communication of Biometric Information Based on Chaos. <i>3D Research</i> , 2015 , 6, 1	2.4	1
13	Construction of Dynamical Non-linear Components Based on Lorenz System and Symmetric Group of Permutations. <i>3D Research</i> , 2015 , 6, 1	2.4	1
12	A novel method to generate key-dependent s-boxes with identical algebraic properties. <i>Journal of Information Security and Applications</i> , 2022 , 64, 103065	3.5	1
11	Integration of Spatial and Frequency Domain Encryption for Digital Images. <i>IEEE Access</i> , 2021 , 9, 149943-149954	3.5	1
10	Simplest symmetric chaotic flows: the strange case of asymmetry in Master Stability Function. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1999-2010	2.3	1
9	Pauli Half Spinning and Elliptic Curve Based Information Confidentiality Mechanism. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 3631-3650	1.1	1
8	A Simple Conservative Chaotic Oscillator with Line of Equilibria: Bifurcation Plot, Basin Analysis, and Multistability. <i>Complexity</i> , 2022 , 2022, 1-7	1.6	1
7	Differential cryptanalysis of diffusion and confusion based information confidentiality mechanism. <i>Optik</i> , 2022 , 259, 168989	2.5	1

6	A Chaotic Quadratic Bistable Hyperjerk System with Hidden Attractors and a Wide Range of Sample Entropy: Impulsive Stabilization. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021 , 31,	2	1
5	A symmetric oscillator with multi-stability and chaotic dynamics: bifurcations, circuit implementation, and impulsive control. <i>European Physical Journal: Special Topics</i> ,1	2.3	1
4	Symmetric Oscillator: Special Features, Realization, and Combination Synchronization. <i>Symmetry</i> , 2021 , 13, 2142	2.7	0
3	A Novel Highly Nonlinear Quadratic System: Impulsive Stabilization, Complexity Analysis, and Circuit Designing. <i>Complexity</i> , 2022 , 2022, 1-14	1.6	0
2	Image encryption scheme for multi-focus images for visual sensors network. <i>Multimedia Tools and Applications</i> ,1	2.5	0
1	Impact of Error Detecting or Correcting Codes on the Sensitivity to DPA of an AES S-Box. <i>3D Research</i> , 2014 , 5, 1	2.4	