

Iqtadar hussain

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A novel technique for the construction of strong S-boxes based on chaotic Lorenz systems. <i>Nonlinear Dynamics</i> , 2012, 70, 2303-2311.	2.7	139
2	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.	3.2	127
3	A group theoretic approach to construct cryptographically strong substitution boxes. <i>Neural Computing and Applications</i> , 2013, 23, 97-104.	3.2	104
4	A Novel Hybrid Secure Image Encryption Based on Julia Set of Fractals and 3D Lorenz Chaotic Map. <i>Entropy</i> , 2020, 22, 274.	1.1	91
5	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.	0.8	89
6	A novel approach for designing substitution-boxes based on nonlinear chaotic algorithm. <i>Nonlinear Dynamics</i> , 2012, 70, 1791-1794.	2.7	85
7	A technique for digital steganography using chaotic maps. <i>Nonlinear Dynamics</i> , 2014, 75, 807-816.	2.7	80
8	An efficient approach for the construction of LFT S-boxes using chaotic logistic map. <i>Nonlinear Dynamics</i> , 2013, 71, 133-140.	2.7	75
9	Application of S -box and chaotic map for image encryption. <i>Mathematical and Computer Modelling</i> , 2013, 57, 2576-2579.	2.0	71
10	Image encryption algorithm based on PGL(2,GF(28)) S-boxes and TD-ERCS chaotic sequence. <i>Nonlinear Dynamics</i> , 2012, 70, 181-187.	2.7	68
11	An extended image encryption using chaotic coupled map and S-box transformation. <i>Nonlinear Dynamics</i> , 2014, 76, 1355-1363.	2.7	64
12	Construction of S8 Liu J S-boxes and their applications. <i>Computers and Mathematics With Applications</i> , 2012, 64, 2450-2458.	1.4	60
13	Construction of Cryptographic S-Boxes Based on Mobius Transformation and Chaotic Tent-Sine System. <i>IEEE Access</i> , 2019, 7, 173273-173285.	2.6	56
14	An efficient scheme for digital watermarking using chaotic map. <i>Nonlinear Dynamics</i> , 2013, 73, 1469-1474.	2.7	52
15	Construction of S-Box Based on Chaotic Map and Algebraic Structures. <i>Symmetry</i> , 2019, 11, 351.	1.1	50
16	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
17	An efficient image encryption algorithm based on S8 S-box transformation and NCA map. <i>Optics Communications</i> , 2012, 285, 4887-4890.	1.0	47
18	Stego optical encryption based on chaotic S-box transformation. <i>Optics and Laser Technology</i> , 2014, 61, 50-56.	2.2	47

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19	A novel image encryption algorithm based on chaotic maps and GF(28) exponent transformation. <i>Nonlinear Dynamics</i> , 2013, 72, 399-406.	2.7	46
20	Literature survey on nonlinear components and chaotic nonlinear components of block ciphers. <i>Nonlinear Dynamics</i> , 2013, 74, 869-904.	2.7	45
21	Fabrication and applications of nickel selenide. <i>Journal of Solid State Chemistry</i> , 2019, 277, 316-328.	1.4	44
22	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.	0.7	43
23	Construction of chaotic quantum magnets and matrix Lorenz systems S-boxes and their applications. <i>Chinese Journal of Physics</i> , 2018, 56, 1609-1621.	2.0	43
24	An Encryption Scheme Based on Discrete Quantum Map and Continuous Chaotic System. <i>International Journal of Theoretical Physics</i> , 2020, 59, 1227-1240.	0.5	42
25	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.	1.4	36
26	An algorithm for the construction of substitution box for block ciphers based on projective general linear group. <i>AIP Advances</i> , 2017, 7, .	0.6	35
27	A new megastable nonlinear oscillator with infinite attractors. <i>Chaos, Solitons and Fractals</i> , 2020, 134, 109703.	2.5	35
28	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.	2.7	34
29	A noise resistant symmetric key cryptosystem based on S8 S-boxes and chaotic maps. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	34
30	A novel method for designing nonlinear component for block cipher based on TD-ERCS chaotic sequence. <i>Nonlinear Dynamics</i> , 2013, 73, 633-637.	2.7	33
31	A Power Associative Loop Structure for the Construction of Non-Linear Components of Block Cipher. <i>IEEE Access</i> , 2020, 8, 123492-123506.	2.6	33
32	Multistable dynamics and control of a new 4D memristive chaotic Sprott B system. <i>Chaos, Solitons and Fractals</i> , 2022, 156, 111834.	2.5	33
33	Chimeras in an adaptive neuronal network with burst-timing-dependent plasticity. <i>Neurocomputing</i> , 2020, 406, 117-126.	3.5	31
34	A image encryption algorithm based on chaotic Lorenz system and novel primitive polynomial S-boxes. <i>Multimedia Tools and Applications</i> , 2021, 80, 24801.	2.6	31
35	A novel design for the construction of safe S-boxes based on TDERC sequence. <i>AJ - Alexandria Engineering Journal</i> , 2015, 54, 65-69.	3.4	30
36	Copper selenide thin films from growth to applications. <i>Solid State Sciences</i> , 2020, 100, 106101.	1.5	30

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37	A Novel Method to Identify Initial Values of Chaotic Maps in Cybersecurity. <i>Symmetry</i> , 2019, 11, 140.	1.1	29
38	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.	0.7	28
39	Dynamic Substitution and Confusion-Diffusion-Based Noise-Resistive Image Encryption Using Multiple Chaotic Maps. <i>IEEE Access</i> , 2021, 9, 52277-52291.	2.6	28
40	A novel approach of audio watermarking based on $\langle \text{mml:math altimg="si5.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co} \rangle$	2.0	27
41	A Scheme for Obtaining Secure S-Boxes Based on Chaotic Baker's Map. <i>3D Research</i> , 2014, 5, 1.	1.8	27
42	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.	1.0	27
43	Cryptanalysis of Novel Image Encryption Scheme Based on Multiple Chaotic Substitution Boxes. <i>IEEE Access</i> , 2021, 9, 93795-93802.	2.6	24
44	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.	0.7	23
45	Circuit implementation of 3D chaotic self-exciting single-disk homopolar dynamo and its application in digital image confidentiality. <i>Wireless Networks</i> , 2020, , 1.	2.0	23
46	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.	2.4	23
47	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.	0.7	19
48	A Privacy Scheme for Digital Images Based on Quantum Particles. <i>International Journal of Theoretical Physics</i> , 2019, 58, 4293-4310.	0.5	19
49	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. <i>IEEE Access</i> , 2021, 9, 105678-105685.	2.6	19
50	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.	1.5	18
51	A Robust Watermarking Scheme for Online Multimedia Copyright Protection Using New Chaotic Map. <i>Security and Communication Networks</i> , 2018, 2018, 1-20.	1.0	18
52	Manganese selenide: Synthetic aspects and applications. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155800.	2.8	18
53	Cryptanalysis of nonlinear confusion component based encryption algorithm. <i>The Integration VLSI Journal</i> , 2021, 79, 41-47.	1.3	18
54	Oyster oscillator: a novel mega-stable nonlinear chaotic system. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2143-2151.	1.2	18

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55	Chaotic dynamics of a fractional order glucose-insulin regulatory system. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 1108-1118.	1.5	17
56	Metal telluride nanotubes: Synthesis, and applications. <i>Materials Chemistry and Physics</i> , 2020, 256, 123691.	2.0	16
57	Chimera State in the Network of Fractional-Order FitzHugh-Nagumo Neurons. <i>Complexity</i> , 2021, 2021, 1-9.	0.9	15
58	Chimera states in a multi-weighted neuronal network. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 424, 127847.	0.9	15
59	A novel algorithm for thermal image encryption. <i>Journal of Integrative Neuroscience</i> , 2018, 17, 447-461.	0.8	14
60	S8 affine-power-affine S-boxes and their applications. <i>Neural Computing and Applications</i> , 2012, 21, 377-383.	3.2	13
61	An efficient image encryption scheme based on double affine substitution box and chaotic system. <i>The Integration VLSI Journal</i> , 2021, 81, 108-122.	1.3	13
62	On Some Statistical Approximation by (p,q) -Bleimann, Butzer and Hahn Operators. <i>Symmetry</i> , 2018, 10, 731.	1.1	12
63	True-chaotic substitution box based on Boolean functions. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	12
64	A New Megastable Chaotic Oscillator with Blinking Oscillation terms. <i>Complexity</i> , 2021, 2021, 1-12.	0.9	12
65	Integration of Spatial and Frequency Domain Encryption for Digital Images. <i>IEEE Access</i> , 2021, 9, 149943-149954.	2.6	12
66	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, 6571-6584.	2.6	10
67	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.	0.8	8
68	Applied Cryptography and Noise Resistant Data Security. <i>Security and Communication Networks</i> , 2018, 2018, 1-2.	1.0	8
69	Cadmium selenide nanowires from growth to applications. <i>Materials Research Express</i> , 2019, 6, 122007.	0.8	8
70	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.	1.2	8
71	Linear triangular optimization technique and pricing scheme in residential energy management systems. <i>Results in Physics</i> , 2018, 9, 858-865.	2.0	7
72	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.	0.6	7

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73	A New Circumscribed Self-Excited Spherical Strange Attractor. Complexity, 2021, 2021, 1-8.	0.9	7
74	Image encryption scheme for multi-focus images for visual sensors network. Multimedia Tools and Applications, 2022, 81, 16353-16370.	2.6	7
75	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
76	Synthetic efforts and applications of metal selenide nanotubes. Materials Science in Semiconductor Processing, 2021, 126, 105656.	1.9	6
77	A Novel Hybrid Secure Confidentiality Mechanism for Medical Environment Based on Kramer's Spin Principle. International Journal of Theoretical Physics, 2021, 60, 314-330.	0.5	6
78	A novel method to generate key-dependent s-boxes with identical algebraic properties. Journal of Information Security and Applications, 2022, 64, 103065.	1.8	6
79	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
80	A Chaotic Quadratic Bistable Hyperjerk System with Hidden Attractors and a Wide Range of Sample Entropy: Impulsive Stabilization. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	0.7	5
81	Construction of New S-Boxes Over Finite Field and Their Application to Watermarking. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 705-710.	0.7	4
82	Construction of Substitution Box Based on Piecewise Linear Chaotic Map and S8 Group. 3D Research, 2015, 6, 1.	1.8	4
83	Use of surfactants to tailor the morphologies and crystalline phases of thin films via aerosol assisted chemical vapor deposition. Journal of Solid State Chemistry, 2020, 288, 121429.	1.4	4
84	A Simple Conservative Chaotic Oscillator with Line of Equilibria: Bifurcation Plot, Basin Analysis, and Multistability. Complexity, 2022, 2022, 1-7.	0.9	4
85	A Novel Highly Nonlinear Quadratic System: Impulsive Stabilization, Complexity Analysis, and Circuit Designing. Complexity, 2022, 2022, 1-14.	0.9	4
86	A symmetric oscillator with multi-stability and chaotic dynamics: bifurcations, circuit implementation, and impulsive control. European Physical Journal: Special Topics, 0, , 1.	1.2	4
87	Stego Optical Encryption Based on Chaotic Baker's Map Transformation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 249-253.	0.7	3
88	Analyses of S-Box in Image Encryption Applications Based on Fuzzy Decision Making Criterion. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 207-214.	0.7	3
89	Simplest symmetric chaotic flows: the strange case of asymmetry in Master Stability Function. European Physical Journal: Special Topics, 2021, 230, 1999-2010.	1.2	3
90	Pauli Half Spinning and Elliptic Curve Based Information Confidentiality Mechanism. International Journal of Theoretical Physics, 2021, 60, 3631-3650.	0.5	3

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91	Differential cryptanalysis of diffusion and confusion based information confidentiality mechanism. Optik, 2022, 259, 168989.	1.4	3
92	An Algorithm to Generating Inverse S-box for Rijndael Encryption Standard. 3D Research, 2014, 5, 1.	1.8	2
93	Construction of Dynamical Non-linear Components Based on Lorenz System and Symmetric Group of Permutations. 3D Research, 2015, 6, 1.	1.8	2
94	Symmetric Oscillator: Special Features, Realization, and Combination Synchronization. Symmetry, 2021, 13, 2142.	1.1	2
95	An Efficient Method for Secure Communication of Biometric Information Based on Chaos. 3D Research, 2015, 6, 1.	1.8	1
96	Impact of Error Detecting or Correcting Codes on the Sensitivity to DPA of an AES S-Box. 3D Research, 2014, 5, 1.	1.8	0