

Tariq Shah

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.

89
papers

2,024
citations

27
h-index

42
g-index

91
ext. papers

2,359
ext. citations

2.6
avg, IF

5.72
L-index

#	Paper	IF	Citations
89	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
88	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
87	A novel scheme for image encryption using substitution box and chaotic system. <i>Nonlinear Dynamics</i> , 2018 , 91, 359-370	5	96
86	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
85	An efficient method for the construction of block cipher with multi-chaotic systems. <i>Nonlinear Dynamics</i> , 2013 , 71, 489-492	5	94
84	A group theoretic approach to construct cryptographically strong substitution boxes. <i>Neural Computing and Applications</i> , 2013 , 23, 97-104	4.8	78
83	A novel approach for designing substitution-boxes based on nonlinear chaotic algorithm. <i>Nonlinear Dynamics</i> , 2012 , 70, 1791-1794	5	66
82	An efficient chaotic image encryption scheme. <i>Neural Computing and Applications</i> , 2015 , 26, 1137-1148	4.8	64
81	An efficient approach for the construction of LFT S-boxes using chaotic logistic map. <i>Nonlinear Dynamics</i> , 2013 , 71, 133-140	5	64
80	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
79	An efficient technique for the construction of substitution box with chaotic partial differential equation. <i>Nonlinear Dynamics</i> , 2013 , 73, 1795-1801	5	60
78	A novel construction of substitution box using a combination of chaotic maps with improved chaotic range. <i>Nonlinear Dynamics</i> , 2017 , 88, 2757-2769	5	59
77	An efficient construction of substitution box with fractional chaotic system. <i>Signal, Image and Video Processing</i> , 2015 , 9, 1335-1338	1.6	59
76	A construction of novel chaos base nonlinear component of block cipher. <i>Nonlinear Dynamics</i> , 2014 , 76, 377-382	5	49
75	A Watermarking Technique with Chaotic Fractional S-Box Transformation. <i>Wireless Personal Communications</i> , 2016 , 90, 2033-2049	1.9	48
74	An efficient scheme for digital watermarking using chaotic map. <i>Nonlinear Dynamics</i> , 2013 , 73, 1469-1474		46
73	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

72	A new implementation of chaotic S-boxes in CAPTCHA. <i>Signal, Image and Video Processing</i> , 2016 , 10, 293-300	3.0	41
71	A Novel Image Encryption Based on Algebraic S-box and Arnold Transform. <i>3D Research</i> , 2017 , 8, 1	2.4	37
70	Literature survey on nonlinear components and chaotic nonlinear components of block ciphers. <i>Nonlinear Dynamics</i> , 2013 , 74, 869-904	5	36
69	A novel image encryption algorithm based on chaotic maps and GF(28) exponent transformation. <i>Nonlinear Dynamics</i> , 2013 , 72, 399-406	5	35
68	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
67	A highly nonlinear S-box based on a fractional linear transformation. <i>SpringerPlus</i> , 2016 , 5, 1658		32
66	Image privacy scheme using quantum spinning and rotation. <i>Journal of Electronic Imaging</i> , 2018 , 27, 1	0.7	31
65	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
64	A novel approach to improve multimedia security utilizing 3D mixed chaotic map. <i>Microprocessors and Microsystems</i> , 2019 , 65, 1-6	2.4	29
63	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
62	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
61	Construction of highly nonlinear S-boxes for degree 8 primitive irreducible polynomials over \mathbb{Z}_2 . <i>Multimedia Tools and Applications</i> , 2019 , 78, 1219-1234	2.5	24
60	A Novel Algebraic Technique for the Construction of Strong Substitution Box. <i>Wireless Personal Communications</i> , 2018 , 99, 213-226	1.9	22
59	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
58	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
57	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
56	A Novel Statistical Analysis of Chaotic S-box in Image Encryption. <i>3D Research</i> , 2014 , 5, 1	2.4	18
55	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

54	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
53	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
52	A Novel Algorithm of Constructing Highly Nonlinear S-p-boxes. <i>Cryptography</i> , 2019 , 3, 6	1.9	16
51	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
50	A scheme based on algebraic and chaotic structures for the construction of substitution box. <i>Multimedia Tools and Applications</i> , 2019 , 78, 32467-32484	2.5	15
49	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
48	Texture Analysis of Chaotic Coupled Map Lattices Based Image Encryption Algorithm. <i>3D Research</i> , 2014 , 5, 1	2.4	13
47	Construction of Non-linear Component of Block Cipher by Means of Chaotic Dynamical System and Symmetric Group. <i>Wireless Personal Communications</i> , 2020 , 112, 467-480	1.9	13
46	Design of an S-box using Rabinovich-Fabrikant system of differential equations perceiving third order nonlinearity. <i>Multimedia Tools and Applications</i> , 2020 , 79, 6649-6660	2.5	12
45	Digital audio signals encryption by Mobius transformation and Hénon map. <i>Multimedia Systems</i> , 2020 , 26, 235-245	2.2	12
44	To Study the Effect of the Generating Polynomial on the Quality of Nonlinear Components in Block Ciphers. <i>Security and Communication Networks</i> , 2018 , 2018, 1-8	1.9	12
43	BCH Codes with computational approach and its applications in image encryption. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 3925-3939	1.6	11
42	Cryptosystem techniques based on the improved Chebyshev map: an application in image encryption. <i>Multimedia Tools and Applications</i> , 2019 , 78, 31467-31484	2.5	11
41	S8 affine-power-affine S-boxes and their applications. <i>Neural Computing and Applications</i> , 2012 , 21, 377-383	1.8	11
40	A new technique of frequency domain watermarking based on a local ring. <i>Wireless Networks</i> , 2019 , 25, 1491-1503	2.5	11
39	Galois Ring ($\mathbb{Z}_8[x]/(x^3)$) Dependent (24 times 24) S-Box Design: An RGB Image Encryption Application. <i>Wireless Personal Communications</i> , 2020 , 113, 1201-1224	1.9	10
38	Block cipher's nonlinear component design by elliptic curves: an image encryption application. <i>Multimedia Tools and Applications</i> , 2021 , 80, 4693-4718	2.5	10
37	Design of new (4 times 4) S-box from finite commutative chain rings. <i>Computational and Applied Mathematics</i> , 2017 , 36, 843-857		9

36	Improved SERPENT Algorithm: Design to RGB Image Encryption Implementation. <i>IEEE Access</i> , 2020 , 8, 52609-52621	3.5	9
35	Onion steganography: a novel layering approach. <i>Nonlinear Dynamics</i> , 2016 , 84, 1431-1446	5	8
34	Maximal cyclic subgroups of the groups of units of Galois rings: a computational approach. <i>Computational and Applied Mathematics</i> , 2017 , 36, 1273-1297		7
33	A novel efficient image encryption algorithm based on affine transformation combine with linear fractional transformation. <i>Multidimensional Systems and Signal Processing</i> , 2020 , 31, 885-905	1.8	7
32	A Novel Scheme of Image Encryption Based on Elliptic Curves Isomorphism and Substitution Boxes. <i>IEEE Access</i> , 2021 , 1-1	3.5	7
31	A novel discrete image encryption algorithm based on finite algebraic structures. <i>Multimedia Tools and Applications</i> , 2020 , 79, 28023-28042	2.5	6
30	Steps Towards Redesigning Cryptosystems by a Non-associative Algebra of IP-Loops. <i>Wireless Personal Communications</i> , 2019 , 108, 1379-1392	1.9	5
29	A method for improving the code rate and error correction capability of a cyclic code. <i>Computational and Applied Mathematics</i> , 2013 , 32, 261-274		5
28	Construction and decoding of BCH codes over chain of commutative rings. <i>Mathematical Sciences</i> , 2012 , 6, 51	1.6	5
27	A Novel Cryptosystem Based on General Linear Group. <i>3D Research</i> , 2015 , 6, 1	2.4	4
26	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
25	CYCLIC CODES THROUGH $B[X; \frac{a}{b}]{\mathbb{Z}}_0$, WITH $\frac{a}{b} \in {\mathbb{Q}}^{+}$ AND $b = a+1$, AND ENCODING. <i>Discrete Mathematics, Algorithms and Applications</i> , 2012 , 04, 1250059	0.5	4
24	CYCLIC CODES THROUGH $B[X]$, $B[X; \frac{1}{k}]{\mathbb{Z}}_0$ AND $B[X; \frac{1}{p^k}]{\mathbb{Z}}_0$: A COMPARISON. <i>Journal of Algebra and Its Applications</i> , 2012 , 11, 1250078	0.4	4
23	Intuitionistic Fuzzy Soft Set Decision Criterion for Selecting Appropriate Block Cipher. <i>3D Research</i> , 2015 , 6, 1	2.4	3
22	On codes over quaternion integers. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2013 , 24, 477-496	0.6	3
21	Spectrum Distribution in Cognitive Radio: Error Correcting Codes Perspective. <i>International Journal of Distributed Sensor Networks</i> , 2014 , 10, 864916	1.7	3
20	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
19	Designing S-boxes triplet over a finite chain ring and its application in RGB image encryption. <i>Multimedia Tools and Applications</i> , 2020 , 79, 26885-26911	2.5	2

18	A new transmission model in cognitive radio based on cyclic generalized polynomial codes for bandwidth reduction. <i>Discrete Mathematics, Algorithms and Applications</i> , 2014 , 06, 1450059	0.5	2
17	Image Encryption Based on Action of Projective General Linear Group on a Galois Field GF(28) 2018 ,		2
16	Characterization of cyclic codes over $\{B[X;(1/m)Z_0]\}_m > 1$ and efficient encoding decoding algorithm for cyclic codes. <i>International Journal of Computer Mathematics</i> , 2017 , 94, 1015-1027	1.2	1
15	S-Box on Subgroup of Galois Field. <i>Cryptography</i> , 2019 , 3, 13	1.9	1
14	Intuitionistic Fuzzy Normal subrings over a non-associative ring. <i>Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica</i> , 2012 , 20, 369-386	0.4	1
13	. <i>IEEE Access</i> , 2021 , 9, 157106-157123	3.5	1
12	An Efficient Image Privacy-Preserving Scheme Based On Mixed Chaotic Map and Compression. <i>International Journal of Image and Graphics</i> , 2250020	0.5	1
11	A three-dimensional chaotic map and their applications to digital audio security. <i>Multimedia Tools and Applications</i> , 2021 , 80, 22251-22273	2.5	1
10	Design of 24-by-24-replacement-matrix: a functionality to astronomical visual. <i>Multimedia Tools and Applications</i> , 2022 , 81, 5929	2.5	0
9	An Efficient Audio Encryption Scheme Based on Finite Fields. <i>IEEE Access</i> , 2021 , 9, 144385-144394	3.5	0
8	Application of soft sets to non-associative rings. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 30, 1537-1546	1.5	0
7	Image reconstruction and text embedding using scan patterns with XOR in graph cut technique. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 33, 1097-1104	1.6	
6	The Effect of the Primitive Irreducible Polynomial on the Quality of Cryptographic Properties of Block Ciphers. <i>Security and Communication Networks</i> , 2020 , 2020, 1-14	1.9	
5	Asymmetric Cryptosystem on Matrix Algebra over a Chain Ring. <i>Symmetry</i> , 2021 , 13, 45	2.7	
4	Factorization properties of subrings in trigonometric polynomial rings. <i>Publications De LInstitut Mathematique</i> , 2009 , 86, 123-131	0.2	
3	Primitive to non-primitive BCH codes: An instantaneous path shifting scheme for data transmission. <i>Journal of Algebra and Its Applications</i> , 2018 , 17, 1850238	0.4	
2	Pseudo random sequences based on elliptic curve subgroups and mathematical model for its application to digital image security. <i>Multimedia Tools and Applications</i> , 1	2.5	
1	Block Cipher Substitution Box Generation Based on Natural Randomness in Underwater Acoustics and Knight's Tour Chain. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-17	3	

