

# Yu-Shu Zhang

## List of Publications by Year in descending order

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95  
papers

4,336  
citations

81743

39  
h-index

114278

63  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting self-adaptive permutationâ€™diffusion and DNA random encoding for secure and efficient image encryption. <i>Signal Processing</i> , 2018, 142, 340-353.	2.1	263
2	A visually secure image encryption scheme based on compressive sensing. <i>Signal Processing</i> , 2017, 134, 35-51.	2.1	244
3	An image encryption scheme based on rotation matrix bit-level permutation and block diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 74-82.	1.7	184
4	Double optical image encryption using discrete Chirikov standard map and chaos-based fractional random transform. <i>Optics and Lasers in Engineering</i> , 2013, 51, 472-480.	2.0	179
5	An efficient visually meaningful image compression and encryption scheme based on compressive sensing and dynamic LSB embedding. <i>Optics and Lasers in Engineering</i> , 2020, 124, 105837.	2.0	169
6	A Review of Compressive Sensing in Information Security Field. <i>IEEE Access</i> , 2016, 4, 2507-2519.	2.6	162
7	A novel image encryption scheme based on a linear hyperbolic chaotic system of partial differential equations. <i>Signal Processing: Image Communication</i> , 2013, 28, 292-300.	1.8	123
8	An efficient approach for encrypting double color images into a visually meaningful cipher image using 2D compressive sensing. <i>Information Sciences</i> , 2021, 556, 305-340.	4.0	122
9	An efficient image encryption scheme using lookup table-based confusion and diffusion. <i>Nonlinear Dynamics</i> , 2015, 81, 1151-1166.	2.7	101
10	Embedding cryptographic features in compressive sensing. <i>Neurocomputing</i> , 2016, 205, 472-480.	3.5	101
11	On the Security of a Class of Diffusion Mechanisms for Image Encryption. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1163-1175.	6.2	92
12	Low-Cost and Confidentiality-Preserving Data Acquisition for Internet of Multimedia Things. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3442-3451.	5.5	88
13	Medical image encryption algorithm based on Latin square and memristive chaotic system. <i>Multimedia Tools and Applications</i> , 2019, 78, 35419-35453.	2.6	84
14	A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. <i>IEEE Internet of Things Journal</i> , 2021, 8, 5914-5925.	5.5	82
15	An image encryption scheme based on multi-objective optimization and block compressed sensing. <i>Nonlinear Dynamics</i> , 2022, 108, 2671-2704.	2.7	81
16	Bi-level Protected Compressive Sampling. <i>IEEE Transactions on Multimedia</i> , 2016, 18, 1720-1732.	5.2	78
17	Reversible data hiding in encrypted images using cross division and additive homomorphism. <i>Signal Processing: Image Communication</i> , 2015, 39, 234-248.	1.8	75
18	Effective Repair Strategy Against Advanced Persistent Threat: A Differential Game Approach. <i>IEEE Transactions on Information Forensics and Security</i> , 2019, 14, 1713-1728.	4.5	74

#	ARTICLE	IF	CITATIONS
19	Self-adaptive permutation and combined global diffusion for chaotic color image encryption. <i>AEU - International Journal of Electronics and Communications</i> , 2014, 68, 361-368.	1.7	71
20	A fast and efficient approach to color-image encryption based on compressive sensing and fractional Fourier transform. <i>Multimedia Tools and Applications</i> , 2018, 77, 2191-2208.	2.6	68
21	Cryptanalysis of S-box-only chaotic image ciphers against chosen plaintext attack. <i>Nonlinear Dynamics</i> , 2013, 72, 751-756.	2.7	67
22	Cryptanalyzing a novel image fusion encryption algorithm based on DNA sequence operation and hyper-chaotic system. <i>Optik</i> , 2014, 125, 1562-1564.	1.4	65
23	Secure and Efficient Outsourcing of PCA-Based Face Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 1683-1695.	4.5	65
24	Colour light field image encryption based on DNA sequences and chaotic systems. <i>Nonlinear Dynamics</i> , 2020, 99, 1587-1600.	2.7	64
25	Breaking an image encryption algorithm based on hyper-chaotic system with only one round diffusion process. <i>Nonlinear Dynamics</i> , 2014, 76, 1645-1650.	2.7	61
26	Chosen-plaintext attack of an image encryption scheme based on modified permutation+diffusion structure. <i>Nonlinear Dynamics</i> , 2016, 84, 2241-2250.	2.7	57
27	On the security of symmetric ciphers based on DNA coding. <i>Information Sciences</i> , 2014, 289, 254-261.	4.0	55
28	Cryptanalysis and improvement in a chaotic image cipher using two-round permutation and diffusion. <i>Nonlinear Dynamics</i> , 2019, 96, 31-47.	2.7	55
29	Improved known-plaintext attack to permutation-only multimedia ciphers. <i>Information Sciences</i> , 2018, 430-431, 228-239.	4.0	54
30	TPE-GAN: Thumbnail Preserving Encryption Based on GAN With Key. <i>IEEE Signal Processing Letters</i> , 2022, 29, 972-976.	2.1	54
31	An effective image compression+encryption scheme based on compressive sensing (CS) and game of life (GOL). <i>Neural Computing and Applications</i> , 2020, 32, 14113-14141.	3.2	53
32	Secure Wireless Communications Based on Compressive Sensing: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019, 21, 1093-1111.	24.8	51
33	Cryptanalyzing a Color Image Encryption Scheme Based on Hybrid Hyper-Chaotic System and Cellular Automata. <i>IEEE Access</i> , 2018, 6, 47102-47111.	2.6	49
34	A Continuous-Time Algorithm for Distributed Optimization Based on Multiagent Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2700-2709.	5.9	49
35	A Compressive Sensing based privacy preserving outsourcing of image storage and identity authentication service in cloud. <i>Information Sciences</i> , 2017, 387, 132-145.	4.0	48
36	Exploiting Optics Chaos for Image Encryption-Then-Transmission. <i>Journal of Lightwave Technology</i> , 2016, 34, 5101-5109.	2.7	46

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37	Image salient regions encryption for generating visually meaningful ciphertext image. Neural Computing and Applications, 2018, 29, 653-663.	3.2	43
38	A compression-diffusion-permutation strategy for securing image. Signal Processing, 2018, 150, 183-190.	2.1	42
39	Differential attack on a hyper-chaos-based image cryptosystem with a classic bi-modular architecture. Nonlinear Dynamics, 2017, 87, 383-390.	2.7	39
40	HF-TPE: High-Fidelity Thumbnail- Preserving Encryption. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 947-961.	5.6	39
41	A Low-Overhead, Confidentiality-Assured, and Authenticated Data Acquisition Framework for IoT. IEEE Transactions on Industrial Informatics, 2020, 16, 7566-7578.	7.2	38
42	Privacy-Assured FogCS: Chaotic Compressive Sensing for Secure Industrial Big Image Data Processing in Fog Computing. IEEE Transactions on Industrial Informatics, 2021, 17, 3401-3411.	7.2	38
43	Infrared target-based selective encryption by chaotic maps. Optics Communications, 2015, 341, 131-139.	1.0	37
44	Cryptanalysis of image scrambling based on chaotic sequences and Vigenère cipher. Nonlinear Dynamics, 2014, 78, 235-240.	2.7	35
45	Secure Transmission of Compressed Sampling Data Using Edge Clouds. IEEE Transactions on Industrial Informatics, 2020, 16, 6641-6651.	7.2	35
46	Preserving privacy while revealing thumbnail for content-based encrypted image retrieval in the cloud. Information Sciences, 2022, 604, 115-141.	4.0	35
47	TPE2: Three-Pixel Exact Thumbnail-Preserving Image Encryption. Signal Processing, 2021, 183, 108019.	2.1	34
48	Compressed Sensing Based Selective Encryption With Data Hiding Capability. IEEE Transactions on Industrial Informatics, 2019, 15, 6560-6571.	7.2	33
49	An efficient chaotic image cipher with dynamic lookup table driven bit-level permutation strategy. Nonlinear Dynamics, 2017, 87, 1359-1375.	2.7	32
50	Deciphering an image cipher based on 3-cell chaotic map and biological operations. Nonlinear Dynamics, 2015, 82, 1831-1837.	2.7	31
51	Computation Outsourcing Meets Lossy Channel: Secure Sparse Robustness Decoding Service in Multi-Clouds. IEEE Transactions on Big Data, 2017, , 1-1.	4.4	30
52	Harnessing the Hybrid Cloud for Secure Big Image Data Service. IEEE Internet of Things Journal, 2017, 4, 1380-1388.	5.5	28
53	Cryptanalyzing a novel image cipher based on mixed transformed logistic maps. Multimedia Tools and Applications, 2014, 73, 1885-1896.	2.6	25
54	Exploiting random convolution and random subsampling for image encryption and compression. Electronics Letters, 2015, 51, 1572-1574.	0.5	25

#	ARTICLE	IF	CITATIONS
55	Chaotic Image Encryption of Regions of Interest. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650193.	0.7	25
56	A Block Compressive Sensing Based Scalable Encryption Framework for Protecting Significant Image Regions. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650191.	0.7	25
57	Mixed Noise Removal via Robust Constrained Sparse Representation. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2177-2189.	5.6	23
58	Improved reversible data hiding for encrypted images using full embedding strategy. Electronics Letters, 2015, 51, 690-691.	0.5	21
59	Robust coding of encrypted images via structural matrix. Signal Processing: Image Communication, 2015, 39, 202-211.	1.8	21
60	Analysis of computer virus propagation behaviors over complex networks: a case study of Oregon routing network. Nonlinear Dynamics, 2020, 100, 1725-1740.	2.7	19
61	Security evaluation of bilateral-diffusion based image encryption algorithm. Nonlinear Dynamics, 2014, 77, 243-246.	2.7	17
62	Defense Against Advanced Persistent Threat Through Data Backup and Recovery. IEEE Transactions on Network Science and Engineering, 2021, 8, 2001-2013.	4.1	16
63	Robust image hashing with tampering recovery capability via low-rank and sparse representation. Multimedia Tools and Applications, 2016, 75, 7681-7696.	2.6	15
64	Optimizing Task Location Privacy in Mobile Crowdsensing Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 2762-2772.	7.2	14
65	Intellectual Property Protection for Deep Learning Models: Taxonomy, Methods, Attacks, and Evaluations. IEEE Transactions on Artificial Intelligence, 2022, 3, 908-923.	3.4	14
66	A novel method for image segmentation using reaction-diffusion model. Multidimensional Systems and Signal Processing, 2017, 28, 657-677.	1.7	13
67	A hybrid scheme for self-adaptive double color-image encryption. Multimedia Tools and Applications, 2018, 77, 14285-14304.	2.6	13
68	Fidelity Preserved Data Hiding in Encrypted Highly Autocorrelated Data Based on Homomorphism and Compressive Sensing. IEEE Access, 2019, 7, 69808-69825.	2.6	12
69	A robust and secure image sharing scheme with personal identity information embedded. Computers and Security, 2019, 85, 107-121.	4.0	12
70	Joint quantization and diffusion for compressed sensing measurements of natural images. , 2015, , .		11
71	Cloud-assisted privacy-conscious large-scale Markowitz portfolio. Information Sciences, 2020, 527, 548-559.	4.0	10
72	Visual Quality Assessment for Perceptually Encrypted Light Field Images. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2522-2534.	5.6	10

#	ARTICLE	IF	CITATIONS
73	Reversible data hiding in encrypted color images using cross-channel correlations. Journal of Visual Communication and Image Representation, 2021, 78, 103166.	1.7	8
74	Attack and Improvement of the Fidelity Preserved Fragile Watermarking of Digital Images. Arabian Journal for Science and Engineering, 2016, 41, 941-950.	1.1	7
75	Gaussian Model for 3D Mesh Steganography. IEEE Signal Processing Letters, 2021, 28, 1729-1733.	2.1	7
76	High-efficiency and visual-usability image encryption based on thumbnail preserving and chaotic system. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 2993-3010.	2.7	7
77	Support-Set-Assured Parallel Outsourcing of Sparse Reconstruction Service for Compressive Sensing in Multi-clouds. , 2015, , .		6
78	ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. IEEE Photonics Journal, 2020, 12, 1-17.	1.0	6
79	PRA-TPE: Perfectly Recoverable Approximate Thumbnail-Preserving Image Encryption. Journal of Visual Communication and Image Representation, 2022, 87, 103589.	1.7	6
80	Deciphering an RGB color image cryptosystem based on Choquet fuzzy integral. Neural Computing and Applications, 2017, 28, 165-169.	3.2	5
81	Cost-Friendly Differential Privacy of Smart Meters Using Energy Storage and Harvesting Devices. IEEE Transactions on Services Computing, 2022, 15, 2648-2657.	3.2	5
82	SWDGAN: GAN-based sampling and whole image denoising network for compressed sensing image reconstruction. Journal of Electronic Imaging, 2021, 30, .	0.5	5
83	Adversarial Data Hiding in Digital Images. Entropy, 2022, 24, 749.	1.1	5
84	Perturbation meets key-based interval splitting arithmetic coding: security enhancement and chaos generalization. Security and Communication Networks, 2016, 9, 43-53.	1.0	4
85	Active intellectual property protection for deep neural networks through stealthy backdoor and users' identities authentication. Applied Intelligence, 2022, 52, 16497-16511.	3.3	4
86	TPE-ISE: approximate thumbnail preserving encryption based on multilevel DWT information self-embedding. Applied Intelligence, 2023, 53, 4027-4046.	3.3	4
87	PRNU-based Image Forgery Localization with Deep Multi-scale Fusion. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-20.	3.0	4
88	Cryptanalysis and Improvement of the Robust and Blind Watermarking Scheme for Dual Color Image. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	2
89	Anomaly detection of aircraft lead-acid battery. Quality and Reliability Engineering International, 2021, 37, 1186-1197.	1.4	2
90	An Efficient Oblivious Random Data Access Scheme in Cloud Computing. IEEE Transactions on Cloud Computing, 2023, 11, 1940-1953.	3.1	2

#	ARTICLE	IF	CITATIONS
91	A self-adaptive scheme for double color-image encryption. , 2017, , .		1
92	Compressive Sensing. Springer Briefs in Electrical and Computer Engineering, 2019, , 1-9.	0.3	1
93	Use the Spear as a Shield: An Adversarial Example Based Privacy-Preserving Technique Against Membership Inference Attacks. IEEE Transactions on Emerging Topics in Computing, 2023, 11, 153-169.	3.2	1
94	Multimedia Data Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 15-62.	0.3	0
95	Internet of Things Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 83-112.	0.3	0