Nan-Run Zhou

List of Publications by Year
in descending order

138 papers	5,778 citations	66343 42 h-index	85541 71 g-index
139 all docs	139 docs citations	139 times ranked	2231 citing authors

#	Article	IF	Citations
1	New color image encryption scheme based on multi-parameter fractional discrete Tchebyshev moments and nonlinear fractal permutation method. Optics and Lasers in Engineering, 2022, 150, 106881.	3.8	64
2	New 4D chaotic system with hidden attractors and self-excited attractors and its application in image encryption based on RNG. Physica A: Statistical Mechanics and Its Applications, 2022, 591, 126793.	2.6	63
3	Quantum particle swarm optimization algorithm with the truncated mean stabilization strategy. Quantum Information Processing, 2022, 21, 1.	2.2	20
4	Image encryption scheme based on discrete cosine Stockwell transform and DNA-level modulus diffusion. Optics and Laser Technology, 2022, 149, 107879.	4.6	59
5	Born machine model based on matrix product state quantum circuit. Physica A: Statistical Mechanics and Its Applications, 2022, 593, 126907.	2.6	15
6	Colour image encryption scheme based on the real-valued discrete Gabor transform. Journal of Modern Optics, 2022, 69, 511-522.	1.3	6
7	Multi-Party Semi-Quantum Key Agreement Protocol Based on the Four-Qubit Cluster States. International Journal of Theoretical Physics, 2022, 61, .	1.2	5
8	A novel image encryption scheme based on chaotic apertured fractional Mellin transform and its filter bank. Expert Systems With Applications, 2022, 207, 118067.	7.6	13
9	Robust and imperceptible watermarking scheme based on Canny edge detection and SVD in the contourlet domain. Multimedia Tools and Applications, 2021, 80, 439-461.	3.9	37
10	Image Encryption Scheme Based on Block Scrambling, Closed-Loop Diffusion, and DNA Molecular Mutation. Security and Communication Networks, 2021, 2021, 1-16.	1.5	6
11	Quantum K-Nearest-Neighbor Image Classification Algorithm Based on K-L Transform. International Journal of Theoretical Physics, 2021, 60, 1209-1224.	1.2	29
12	Semi-quantum private comparison protocol of size relation with d-dimensional Bell states. Quantum Information Processing, 2021, 20, 1.	2.2	31
13	Nonlinear Multi-Image Encryption Scheme with the Reality-Preserving Discrete Fractional Angular Transform and DNA Sequences. Security and Communication Networks, 2021, 2021, 1-18.	1.5	6
14	Quantum Watermark Algorithm Based on Maximum Pixel Difference and Tent Map. International Journal of Theoretical Physics, 2021, 60, 3306-3333.	1.2	11
15	Quantum multi-image compression-encryption scheme based on quantum discrete cosine transform and 4D hyper-chaotic Henon map. Quantum Information Processing, 2021, 20, 1.	2.2	37
16	Neurons in Primary Motor Cortex Encode External Perturbations during an Orientation Reaching Task. Brain Sciences, 2021, 11, 1125.	2.3	0
17	Secrecy rate optimization for SWIPT in two‐way relay networks with multiple untrusted relays and channel estimation errors. IET Communications, 2021, 15, 2564-2574.	2.2	1
18	Image Reconstruction from Multiscale Singular Points Based on the Dual-Tree Complex Wavelet Transform. Security and Communication Networks, 2021, 2021, 1-14.	1.5	1

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19	Optical image encryption algorithm based on phase-truncated short-time fractional Fourier transform and hyper-chaotic system. Optics and Lasers in Engineering, 2020, 124, 105816.	3.8	136
20	Adaptive and blind watermarking scheme based on optimal SVD blocks selection. Multimedia Tools and Applications, 2020, 79, 243-261.	3.9	32
21	Nonlinear optical multi-image encryption scheme with two-dimensional linear canonical transform. Optics and Lasers in Engineering, 2020, 124, 105821.	3.8	120
22	Optical image encryption scheme based on apertured fractional Mellin transform. Optics and Laser Technology, 2020, 124, 106001.	4.6	25
23	Quantitative estimation of mismatch losses in photovoltaic arrays under partial shading conditions. Optik, 2020, 203, 163950.	2.9	15
24	Novel quantum image compression and encryption algorithm based on DQWT and 3D hyper-chaotic Henon map. Quantum Information Processing, 2020, 19, 1.	2.2	50
25	A New 4D Chaotic System with Coexisting Hidden Chaotic Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050142.	1.7	50
26	Multi-party semi-quantum secure direct communication protocol with cluster states. International Journal of Theoretical Physics, 2020, 59, 2175-2186.	1.2	4
27	Secrecy rate maximisation for non‐linear energy harvesting relay networks with cooperative jamming and imperfect channel state information. IET Communications, 2020, 14, 923-929.	2.2	4
28	Three Attacks on the Mediated Semi‐Quantum Key Distribution without Invoking Quantum Measurement. Annalen Der Physik, 2020, 532, 2000251.	2.4	3
29	Fast color image encryption scheme based on 3D orthogonal Latin squares and matching matrix. Optics and Laser Technology, 2020, 131, 106437.	4.6	58
30	Transparency and tunable slow-fast light in a hybrid cavity optomechanical system. Optics Express, 2020, 28, 5288.	3.4	37
31	Quantum Private Comparison Protocol Based on Four-Particle GHZ States. International Journal of Theoretical Physics, 2020, 59, 1798-1806.	1.2	16
32	Two Semi-Quantum Key Distribution Protocols with G-Like States. International Journal of Theoretical Physics, 2020, 59, 1884-1896.	1.2	6
33	Three-Party Semi-Quantum Key Agreement Protocol. International Journal of Theoretical Physics, 2020, 59, 663-676.	1.2	26
34	Tunable optical second-order sideband effects in a parity-time symmetric optomechanical system. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	17
35	Prediction of photovoltaic power output based on similar day analysis, genetic algorithm and extreme learning machine. Energy, 2020, 204, 117894.	8.8	143
36	Multi-image compression-encryption scheme based on quaternion discrete fractional Hartley transform and improved pixel adaptive diffusion. Signal Processing, 2020, 175, 107652.	3.7	111

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37	New semi-quantum key agreement protocol based on high-dimensional single-particle states*. Chinese Physics B, 2020, 29, 110304.	1.4	26
38	Accurate prediction of photovoltaic power output based on long short‑term memory network. IET Optoelectronics, 2020, 14, 399-405.	3.3	20
39	Image encryption scheme based on a Gaussian apertured reality-preserving fractional Mellin transform. Optica Applicata, 2020, 50, .	0.2	1
40	Secure and robust watermark scheme based on multiple transforms and particle swarm optimization algorithm. Multimedia Tools and Applications, 2019, 78, 2507-2523.	3.9	58
41	Quantum Communication: Multi‑Party Semi‑Quantum Key Distribution Protocol With Four‑Particle Cluster States (Ann. Phys. 8/2019). Annalen Der Physik, 2019, 531, 1970031.	2.4	7
42	Semi-Quantum Bi-Signature Scheme Based on W States. International Journal of Theoretical Physics, 2019, 58, 3239-3251.	1.2	12
43	High-dimensional quantum key distribution based on qudits transmission with quantum Fourier transform. Quantum Information Processing, 2019, 18, 1.	2.2	17
44	A semi-quantum authentication protocol for message and identity. Laser Physics Letters, 2019, 16, 075206.	1.4	17
45	Multi‑Party Semi‑Quantum Key Distribution Protocol With Four‑Particle Cluster States. Annalen Der Physik, 2019, 531, 1800520.	2.4	76
46	Semi-quantum identification. Quantum Information Processing, 2019, 18, 1.	2.2	31
47	Properties of Entanglement between the JC Model and Atom-Cavity-Optomechanical System. International Journal of Theoretical Physics, 2019, 58, 2641-2653.	1.2	6
48	An optical image compression and encryption scheme based on compressive sensing and RSA algorithm. Optics and Lasers in Engineering, 2019, 121, 169-180.	3.8	112
49	Reduced-reference image quality metric based on statistic model in complex wavelet transform domain. Signal Processing: Image Communication, 2019, 74, 218-230.	3.2	4
50	An image compression and encryption algorithm based on chaotic system and compressive sensing. Optics and Laser Technology, 2019, 115, 257-267.	4.6	185
51	Multiparty Quantum Key Agreement Protocol with Entanglement Swapping. International Journal of Theoretical Physics, 2019, 58, 436-450.	1.2	20
52	Robust information encryption diffractive-imaging-based scheme with special phase retrieval algorithm for a customized data container. Optics and Lasers in Engineering, 2018, 105, 118-124.	3.8	40
53	Tripartite Entanglement in an Atom-Cavity-Optomechanical System. International Journal of Theoretical Physics, 2018, 57, 1319-1337.	1.2	7
54	Image compression-encryption algorithms by combining hyper-chaotic system with discrete fractional random transform. Optics and Laser Technology, 2018, 103, 48-58.	4.6	83

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55	Bit-level quantum color image encryption scheme with quantum cross-exchange operation and hyper-chaotic system. Quantum Information Processing, 2018, 17, 1.	2.2	87
56	Multi-image encryption scheme based on quantum 3D Arnold transform and scaled Zhongtang chaotic system. Quantum Information Processing, 2018, 17, 1.	2.2	85
57	Cooperative Interference and Power Allocation in a Bidirectional Untrusted Relay Network With Channel Estimation Errors. IEEE Access, 2018, 6, 50950-50958.	4.2	7
58	Semi-Quantum Key Distribution Protocols with GHZ States. International Journal of Theoretical Physics, 2018, 57, 3621-3631.	1.2	40
59	Imperceptible digital watermarking scheme in multiple transform domains. Multimedia Tools and Applications, 2018, 77, 30251-30267.	3.9	45
60	New Quantum Key Distribution Scheme Based on Random Hybrid Quantum Channel with EPR Pairs and GHZ States. International Journal of Theoretical Physics, 2018, 57, 2648-2656.	1.2	5
61	Properties of hybrid entanglement among two flux qubits and a nitrogen-vacancy-center ensemble. Laser Physics, 2018, 28, 085204.	1.2	0
62	Double-image compression and encryption algorithm based on co-sparse representation and random pixel exchanging. Optics and Lasers in Engineering, 2018, 110, 72-79.	3.8	110
63	Continuous variable quantum network dialogue protocol based on single-mode squeezed states. Laser Physics Letters, 2018, 15, 105204.	1.4	26
64	Three-Party Quantum Key Agreement Protocol with Seven-Qubit Entangled States. International Journal of Theoretical Physics, 2018, 57, 3505-3513.	1.2	6
65	A Global Decoding Strategy with a Reduced-Reference Metric Designed for the Wireless Transmission of JPWL. Lecture Notes in Computer Science, 2018, , 496-505.	1.3	0
66	High stability planar perovskite solar cells with inorganic charge transport layers. Journal of Photonics for Energy, 2018, 8, 1.	1.3	1
67	Optical multi-image encryption scheme based on discrete cosine transform and nonlinear fractional Mellin transform. Multimedia Tools and Applications, 2017, 76, 2933-2953.	3.9	42
68	A novel image compression–encryption hybrid algorithm based on the analysis sparse representation. Optics Communications, 2017, 392, 223-233.	2.1	79
69	Quantum Multi-Image Encryption Based on Iteration Arnold Transform with Parameters and Image Correlation Decomposition. International Journal of Theoretical Physics, 2017, 56, 2192-2205.	1.2	11
70	Quantum image encryption scheme with iterative generalized Arnold transforms and quantum image cycle shift operations. Quantum Information Processing, 2017, 16, 1.	2.2	106
71	Dynamic Multi-hop Clustering in a Wireless Sensor Network: Performance Improvement. Wireless Personal Communications, 2017, 95, 3733-3753.	2.7	70
72	New quantum dialogue protocol based on continuous-variable two-mode squeezed vacuum states. Quantum Information Processing, 2017, 16, 1.	2.2	75

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73	Image encryption scheme based on random fractional discrete cosine transform and dependent scrambling and diffusion. Journal of Modern Optics, 2017, 64, 334-346.	1.3	22
74	Multiparty quantum dialogue protocol based on continuous variable squeezed states. , 2017, , .		5
75	Efficient Three-Party Quantum Dialogue Protocol Based on the Continuous Variable GHZ States. International Journal of Theoretical Physics, 2016, 55, 3147-3155.	1.2	18
76	Quantum image encryption based on generalized affine transform and logistic map. Quantum Information Processing, 2016, 15, 2701-2724.	2.2	62
77	Secrecy Outage Probability of a Distributed Multi-Antenna Cooperative Communication System. Wireless Personal Communications, 2016, 90, 1635-1645.	2.7	1
78	Entanglement swapping in two independent atom-cavity-optomechanical systems. Journal of the Korean Physical Society, 2016, 69, 505-511.	0.7	2
79	Color image encryption combining a reality-preserving fractional DCT with chaotic mapping in HSI space. Multimedia Tools and Applications, 2016, 75, 6605-6620.	3.9	14
80	Image compression–encryption scheme based on hyper-chaotic system and 2D compressive sensing. Optics and Laser Technology, 2016, 82, 121-133.	4.6	303
81	Quantum Image Encryption Algorithm Based on Quantum Image XOR Operations. International Journal of Theoretical Physics, 2016, 55, 3234-3250.	1.2	72
82	Image encryption combining multiple generating sequences controlled fractional DCT with dependent scrambling and diffusion. Journal of Modern Optics, 2015, 62, 251-264.	1.3	23
83	Double-image encryption scheme combining DWT-based compressive sensing with discrete fractional random transform. Optics Communications, 2015, 354, 112-121.	2.1	77
84	Radio vortex for future wireless broadband communications with high capacity. IEEE Wireless Communications, 2015, 22, 98-104.	9.0	14
85	Radio Vortex–Multiple-Input Multiple-Output Communication Systems With High Capacity. IEEE Access, 2015, 3, 2456-2464.	4.2	23
86	Image compression and encryption scheme based on 2D compressive sensing and fractional Mellin transform. Optics Communications, 2015, 343, 10-21.	2.1	229
87	Quantum image encryption based on generalized Arnold transform and double random-phase encoding. Quantum Information Processing, 2015, 14, 1193-1213.	2.2	190
88	Secure Cooperative Communication via Artificial Noise for Wireless Two-Hop Relaying Networks. Wireless Personal Communications, 2015, 82, 1759-1771.	2.7	9
89	Quantum Image Encryption Algorithm Based on Image Correlation Decomposition. International Journal of Theoretical Physics, 2015, 54, 526-537.	1.2	74
90	Multi-bit quantum random number generation by measuring positions of arrival photons. Review of Scientific Instruments, 2014, 85, 103116.	1.3	24

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91	A continuous variable quantum deterministic key distribution based on two-mode squeezed states. Physica Scripta, 2014, 89, 035101.	2.5	66
92	Three-Party Quantum Network Communication Protocols Based on Quantum Teleportation. International Journal of Theoretical Physics, 2014, 53, 1387-1403.	1.2	4
93	Secrecy Rate of Two-Hop AF Relaying Networks with an Untrusted Relay. Wireless Personal Communications, 2014, 75, 119-129.	2.7	13
94	Three-party remote state preparation schemes based on entanglement. Quantum Information Processing, 2014, 13, 513-526.	2.2	25
95	Flexible Design Method for Multi-Repeater Wireless Power Transfer System Based on Coupled Resonator Bandpass Filter Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 3288-3297.	5.4	53
96	Novel hybrid image compression–encryption algorithm based on compressive sensing. Optik, 2014, 125, 5075-5080.	2.9	105
97	Single-Photon Secure Quantum Dialogue Protocol Without Information Leakage. International Journal of Theoretical Physics, 2014, 53, 3829-3837.	1.2	23
98	Triple color images encryption algorithm based on scrambling and the reality-preserving fractional discrete cosine transform. Optik, 2014, 125, 4474-4479.	2.9	27
99	Novel image compression–encryption hybrid algorithm based on key-controlled measurement matrix in compressive sensing. Optics and Laser Technology, 2014, 62, 152-160.	4.6	283
100	Continuous Variable Quantum Secret Sharing via Quantum Teleportation. International Journal of Theoretical Physics, 2013, 52, 4174-4184.	1.2	21
101	Secure Quantum Dialogue Protocol Based on W States Without Information Leakage. International Journal of Theoretical Physics, 2013, 52, 3204-3211.	1.2	23
102	Novel Quantum Virtual Private Network Scheme for PON via Quantum Secure Direct Communication. International Journal of Theoretical Physics, 2013, 52, 3260-3268.	1.2	20
103	Image encryption based on a reality-preserving fractional discrete cosine transform and a chaos-based generating sequence. Journal of Modern Optics, 2013, 60, 1760-1771.	1.3	23
104	Four-image encryption method based on spectrum truncation, chaos and the MODFrFT. Optics and Laser Technology, 2013, 45, 571-577.	4.6	40
105	Image encryption scheme based on fractional Mellin transform and phase retrieval technique in fractional Fourier domain. Optics and Laser Technology, 2013, 47, 341-346.	4.6	41
106	Three-Party Stop-Wait Quantum Communication Protocol for Data Link Layer Based on GHZ State. International Journal of Theoretical Physics, 2013, 52, 811-819.	1.2	4
107	Flexible multiple-image encryption algorithm based on log-polar transform and double random phase encoding technique. Journal of Modern Optics, 2013, 60, 1074-1082.	1.3	68
108	Color Image Encryption Algorithm Combining Compressive Sensing with Arnold Transform. Journal of Computers, 2013, 8, .	0.4	12

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109	Single-Channel Color Image Encryption Using the Reality-Preserving Fractional Discrete Cosine Transform in YCbCr Space. Journal of Computers, 2013, 8, .	0.4	1
110	Novel color image encryption algorithm based on the reality preserving fractional Mellin transform. Optics and Laser Technology, 2012, 44, 2270-2281.	4.6	81
111	Spectrum analysis on Mellin Ttransform and fractional Mellin transform. , 2011, , .		2
112	Quantum deterministic key distribution protocols based on teleportation and entanglement swapping. Optics Communications, 2011, 284, 4836-4842.	2.1	36
113	Image encryption algorithm based on the multi-order discrete fractional Mellin transform. Optics Communications, 2011, 284, 5588-5597.	2.1	34
114	Novel optical image encryption scheme based on fractional Mellin transform. Optics Communications, 2011, 284, 3234-3242.	2.1	225
115	Novel single-channel color image encryption algorithm based on chaos and fractional Fourier transform. Optics Communications, 2011, 284, 2789-2796.	2.1	112
116	A new pixel contractible visual secret sharing scheme. , 2011, , .		0
117	WEYL CORRESPONDENCE FORMALISM FOR DESCRIBING ELECTRON UNDER UNIFORM MAGNETIC FIELD STUDIED BY VIRTUE OF THE ENTANGLED STATE REPRESENTATION. International Journal of Modern Physics B, 2011, 25, 1029-1036.	2.0	0
118	An improved mechanism for four-way handshake procedure in IEEE802.11i. , 2010, , .		0
119	Novel Quantum Deterministic Key Distribution Protocols with Entangled States. International Journal of Theoretical Physics, 2010, 49, 2035-2044.	1.2	24
120	Novel image encryption algorithm based on multiple-parameter discrete fractional random transform. Optics Communications, 2010, 283, 3037-3042.	2.1	92
121	Image encryption based on the multiple-order discrete fractional cosine transform. Optics Communications, 2010, 283, 1720-1725.	2.1	43
122	Quantum deterministic key distribution protocols based on the authenticated entanglement channel. Physica Scripta, 2010, 81, 045009.	2.5	20
123	Optical Image Encryption Scheme Based on Multiple-parameter Random Fractional Fourier Transform. , 2009, , .		2
124	Image Encryption with Discrete Fractional Cosine Transform and Chaos. , 2009, , .		11
125	Secure Direct Communication Based onÂNon-Orthogonal Entangled Pairs andÂLocalÂMeasurement. International Journal of Theoretical Physics, 2008, 47, 3401-3407.	1.2	12
126	REALIZABLE QUANTUM BROADCASTING MULTI-SIGNATURE SCHEME. International Journal of Modern Physics B, 2008, 22, 4251-4259.	2.0	23

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127	Secure communication of cluster-based ad hoc networks using ID-based cryptography. , 2008, , .		1
128	Secure quantum telephone. Optics Communications, 2007, 275, 278-282.	2.1	29
129	Novel qubit block encryption algorithm with hybrid keys. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 693-698.	2.6	42
130	A novel quantum block encryption algorithm based on quantum computation. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 305-313.	2.6	22
131	An improved quantum key distribution protocol based on second-order coherence. Optics Communications, 2006, 260, 351-354.	2.1	1
132	Quantum identity authentication based on ping-pong technique for photons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 199-205.	2.1	71
133	Cascade quantum teleportation. Optoelectronics Letters, 2006, 2, 455-458.	0.8	0
134	Cross-center quantum identification scheme based on teleportation and entanglement swapping. Optics Communications, 2005, 254, 380-388.	2.1	53
135	Second-order coherence of light fields with a beam splitter. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 4301-4308.	1.5	4
136	Propagation properties of Hermite-cosine-Gaussian beams through a paraxial optical ABCD system with hard-edge aperture. Optics Communications, 2004, 232, 49-59.	2.1	26
137	Algorithms for flattened Gaussian beams passing through apertured and unapertured paraxial ABCD optical systems. Optics Communications, 2004, 240, 299-306.	2.1	11
138	Recurrence propagation equation of Hermite-Gaussian beams through a paraxial optical ABCD system with hard-edge aperture. Optik, 2003, 114, 113-117.	2.9	10