

Zhengjun Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8563400/publications.pdf>

Version: 2024-02-01

156
papers

4,951
citations

76326

40
h-index

106344

65
g-index

158
all docs

158
docs citations

158
times ranked

1603
citing authors

#	ARTICLE	IF	CITATIONS
1	Image Reconstruction Using Autofocus in Single-Lens System. Applied Sciences (Switzerland), 2022, 12, 1378.	2.5	5
2	Securing color image by using bit-level modified integer nonlinear coupled chaos model in Fresnel diffraction domains. Optics and Lasers in Engineering, 2022, 152, 106969.	3.8	14
3	Discrete electro-optic effect induced by multiscale nanoresonators. Optical Materials, 2022, 127, 112271.	3.6	3
4	Noise-robust phase retrieval by optics path modulation with adaptive feedback. Optics Communications, 2022, 515, 128199.	2.1	5
5	Fast automatic multiple positioning for lensless coherent diffraction imaging. Optics and Lasers in Engineering, 2022, 155, 107055.	3.8	11
6	Lensfree auto-focusing imaging using nuclear norm of gradient. Optics and Lasers in Engineering, 2022, 156, 107076.	3.8	5
7	Spectrum sampling optimization for quantitative phase imaging based on Kramers-Kronig relations. Optics Letters, 2022, 47, 2786.	3.3	8
8	Lensfree on-chip microscopy based on single-plane phase retrieval. Optics Express, 2022, 30, 19855.	3.4	10
9	High-performance lensless diffraction imaging from diverse holograms by three-dimensional scanning. Optics Letters, 2022, 47, 3423.	3.3	4
10	Enormous electro-optic effect in paraelectric nanodisordered $\text{KTa}_{1-x}\text{NbxO}_3$ crystal. Optics Letters, 2022, 47, 3467.	3.3	3
11	Random motion blur for optical image encryption. Optics Express, 2022, 30, 24310.	3.4	5
12	Fast autofocusing based on pixel difference with the Tanimoto coefficient between images. Optics Letters, 2022, 47, 3752.	3.3	7
13	A novel chaos based optical cryptosystem for multiple images using DNA-blend and gyrator transform. Optics and Lasers in Engineering, 2021, 138, 106448.	3.8	26
14	High-quality multi-wavelength lensfree microscopy based on nonlinear optimization. Optics and Lasers in Engineering, 2021, 137, 106402.	3.8	5
15	Optical cryptosystem scheme for hyperspectral image based on random spiral transform in gyrator domains. Optics and Lasers in Engineering, 2021, 137, 106375.	3.8	14
16	A compact image encryption system based on Arnold transformation. Multimedia Tools and Applications, 2021, 80, 2647-2661.	3.9	27
17	Multi-rotation coherent imaging by a phase mask. Optics and Lasers in Engineering, 2021, 139, 106511.	3.8	10
18	Computational imaging in multirotation cylinder lens based on precise angle estimation with principal component analysis. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	0

#	ARTICLE	IF	CITATIONS
19	Tilt illumination for structured illumination imaging. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	0
20	Asymmetric optical cryptosystem for multiple images based on devil's spiral Fresnel lens phase and random spiral transform in gyrator domain. <i>Scientific Reports</i> , 2021, 11, 20846.	3.3	3
21	Self-adapting search algorithm for Fourier ptychographic microscopy. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	4
22	Fast quantitative phase imaging based on Kramers-Kronig relations in space domain. <i>Optics Express</i> , 2021, 29, 41067.	3.4	17
23	Generation of hollow beams by using phase filtering with multi-distance phase retrieval. <i>Optics Communications</i> , 2020, 456, 124611.	2.1	7
24	Adjustable frequency filtering and weighted feedback for iterative phase retrieval under noisy conditions. <i>Optics and Lasers in Engineering</i> , 2020, 124, 105808.	3.8	4
25	Optical single-channel color image asymmetric cryptosystem based on hyperchaotic system and random modulus decomposition in Gyrator domains. <i>Optics and Lasers in Engineering</i> , 2020, 124, 105809.	3.8	25
26	Artifactless, lens-free coherent microscopy with quasi-3D scanning. <i>Measurement Science and Technology</i> , 2020, 31, 045402.	2.6	0
27	A coherent diffraction imaging by using an iterative phase retrieval with multiple patterns at several directions. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	7
28	A parallel ptychographic iterative engine with a co-start region. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 075701.	2.2	12
29	A noise-robust multi-intensity phase retrieval method based on structural patch decomposition. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 075706.	2.2	6
30	Lensfree super-resolved imaging based on adaptive Wiener filter and guided phase retrieval algorithm. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 055703.	2.2	4
31	Accurate angle estimation based on moment for multirotation computation imaging. <i>Applied Optics</i> , 2020, 59, 492.	1.8	4
32	Ptychography imaging by 1-D scanning with a diffuser. <i>Optics Express</i> , 2020, 28, 22658.	3.4	19
33	Optical Cryptosystem Using Chaotic/Hyperchaotic System. <i>Studies in Computational Intelligence</i> , 2020, , 53-79.	0.9	0
34	Biological Sample Imaging by Ptychography with Laterally 1-D Scanning. , 2020, , .		0
35	Computational coherent imaging based on rotational phase modulation by a cylindrical lens. , 2020, , .		0
36	Multi-hyperbolic sine-correlated beams and their statistical properties in turbulent atmosphere. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1595.	1.5	5

#	ARTICLE	IF	CITATIONS
37	A gradient-based optical-flow cardiac motion estimation method for cine and tagged MR images. <i>Medical Image Analysis</i> , 2019, 57, 136-148.	11.6	9
38	Enhanced multi-rotation computational coherent imaging based on pre-illumination and simulated annealing compensation. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115701.	2.2	5
39	Dual paths cryptosystem based on tilt Fresnel diffraction using non-spherical mirror and phase modulation in expanded fractional Fourier transform domain. <i>Scientific Reports</i> , 2019, 9, 15071.	3.3	2
40	Structured illumination imaging without grating rotation based on mirror operation on 1D Fourier spectrum. <i>Optics Express</i> , 2019, 27, 2016.	3.4	4
41	Optical Hyperspectral Image Cryptosystem Based on Affine Transform and Fractional Fourier Transform. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 330.	2.5	11
42	Asymmetric color cryptosystem using chaotic Ushiki map and equal modulus decomposition in fractional Fourier transform domains. <i>Optics and Lasers in Engineering</i> , 2019, 112, 7-15.	3.8	54
43	Multi-distance phase retrieval with a weighted shrink-wrap constraint. <i>Optics and Lasers in Engineering</i> , 2019, 113, 1-5.	3.8	13
44	Propagation properties of radially polarized multi-Gaussian Schell-model beams in oceanic turbulence. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1719.	1.5	11
45	Lensfree on-chip microscopy based on dual-plane phase retrieval. <i>Optics Express</i> , 2019, 27, 35216.	3.4	17
46	A method of solving tilt illumination for multiple distance phase retrieval. <i>Optics and Lasers in Engineering</i> , 2018, 106, 17-23.	3.8	19
47	A fast-converging iterative method based on weighted feedback for multi-distance phase retrieval. <i>Scientific Reports</i> , 2018, 8, 6436.	3.3	28
48	Color image cryptosystem using Fresnel diffraction and phase modulation in an expanded fractional Fourier transform domain. <i>Laser Physics</i> , 2018, 28, 055402.	1.2	6
49	Giant and tunable optical torque for micro-motors by increased force arm and resonantly enhanced force. <i>Scientific Reports</i> , 2018, 8, 2819.	3.3	7
50	Image security based on iterative random phase encoding in expanded fractional Fourier transform domains. <i>Optics and Lasers in Engineering</i> , 2018, 105, 1-5.	3.8	38
51	Complex amplitude reconstruction by iterative amplitude-phase retrieval algorithm with reference. <i>Optics and Lasers in Engineering</i> , 2018, 105, 54-59.	3.8	17
52	A novel unsupervised bands selection algorithm for hyperspectral image. <i>Optik</i> , 2018, 158, 985-996.	2.9	8
53	Random sources generating far fields with ring-shaped array profiles. <i>Optik</i> , 2018, 168, 590-597.	2.9	6
54	Optical hyperspectral image encryption based on improved Chirikov mapping and gyrator transform. <i>Optics and Lasers in Engineering</i> , 2018, 107, 62-70.	3.8	50

#	ARTICLE	IF	CITATIONS
55	A robust multi-image phase retrieval. <i>Optics and Lasers in Engineering</i> , 2018, 101, 16-22.	3.8	22
56	Noise-robust pixel-super-resolved multi-image phase retrieval with coherent illumination. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 115703.	2.2	16
57	Adaptive lens-free computational coherent imaging using autofocusing quantification with speckle illumination. <i>Optics Express</i> , 2018, 26, 14407.	3.4	14
58	Computational coherent imaging by rotating a cylindrical lens. <i>Optics Express</i> , 2018, 26, 22110.	3.4	27
59	Wavefront reconstruction of a non-coaxial diffraction model in a lens system. <i>Applied Optics</i> , 2018, 57, 1127.	1.8	3
60	Enhancing imaging contrast via weighted feedback for iterative multi-image phase retrieval. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	7
61	A review of iterative phase retrieval for measurement and encryption. <i>Optics and Lasers in Engineering</i> , 2017, 89, 2-12.	3.8	51
62	Asymmetric optical cryptosystem for color image based on equal modulus decomposition in gyrator transform domains. <i>Optics and Lasers in Engineering</i> , 2017, 93, 1-8.	3.8	54
63	Propagation factor of electromagnetic concentric rings Schell-model beams in non-Kolmogorov turbulence. <i>Chinese Physics B</i> , 2017, 26, 024201.	1.4	6
64	Optical secure image verification system based on ghost imaging. <i>Optics Communications</i> , 2017, 399, 98-103.	2.1	10
65	Optical image asymmetric cryptosystem using fingerprint based on iterative fraction Fourier transform. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	5
66	Axial multi-image phase retrieval under tilt illumination. <i>Scientific Reports</i> , 2017, 7, 7562.	3.3	19
67	Two noise-robust axial scanning multi-image phase retrieval algorithms based on Pauta criterion and smoothness constraint. <i>Optics Express</i> , 2017, 25, 16235.	3.4	88
68	Propagation factors of multi-sinc Schell-model beams in non-Kolmogorov turbulence. <i>Optics Express</i> , 2016, 24, 1804.	3.4	19
69	Securing color image by using hyperchaotic system in gyrator transform domains. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	18
70	Effect of deposition power and pressure on rate deposition and resistivity of titanium thin films grown by DC magnetron sputtering. <i>Spectroscopy Letters</i> , 2016, 49, 514-519.	1.0	24
71	A convolution-based fractional transform. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	6
72	Propagation properties of Gaussian Schell-model array beams in non-Kolmogorov turbulence. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 105601.	2.2	9

#	ARTICLE	IF	CITATIONS
73	Estimation of cardiac motion in cine-MRI sequences by correlation transform optical flow of monogenic features distance. <i>Physics in Medicine and Biology</i> , 2016, 61, 8640-8663.	3.0	8
74	Coherent diffraction imaging by moving a lens. <i>Optics Express</i> , 2016, 24, 16520.	3.4	44
75	Propagation characteristics of a non-uniformly Hermiteâ€“Gaussian correlated beam. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 015606.	2.2	12
76	A Recovery Method of Double Random Phase Encoding System With a Parallel Phase Retrieval. <i>IEEE Photonics Journal</i> , 2016, 8, 1-7.	2.0	39
77	Optical spectrum encryption in associated fractional Fourier transform and gyrator transform domain. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	19
78	Optical hyperspectral data encryption in spectrum domain by using 3D Arnold and gyrator transforms. <i>Spectroscopy Letters</i> , 2016, 49, 103-107.	1.0	21
79	Multiple-image encryption based on computational ghost imaging. <i>Optics Communications</i> , 2016, 359, 38-43.	2.1	110
80	Semi-active control of space manipulator soft contacting based on magnetorheological rotational damper. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 2390-2398.	2.1	1
81	Cryptanalysis of an â€œasymmetric optical cryptosystem based on coherent superposition and equal modulus decompositionâ€œ. <i>Applied Optics</i> , 2015, 54, 8921.	2.1	39
82	Securing color image by using phase-only encoding in Fresnel domains. <i>Optics and Lasers in Engineering</i> , 2015, 68, 87-92.	3.8	73
83	Secure optical verification using dual phase-only correlation. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025703.	2.2	4
84	Iterative phase-amplitude retrieval with multiple intensity images at output plane of gyrator transforms. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025701.	2.2	52
85	Elegant super Lorentzâ€“Gaussian beams. <i>Optik</i> , 2015, 126, 774-779.	2.9	8
86	Optical security validation using Michelson interferometer. <i>Applied Optics</i> , 2015, 54, 1802.	1.8	4
87	Multispectral and panchromatic image fusion using a joint spatial domain and transform domain for improved DFRNT. <i>Optik</i> , 2015, 126, 5241-5248.	2.9	1
88	Precision influence of a phase retrieval algorithm in fractional Fourier domains from position measurement error. <i>Applied Optics</i> , 2015, 54, 6940.	2.1	8
89	Simultaneous optical image compression and encryption using error-reduction phase retrieval algorithm. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 125701.	2.2	5
90	Target Recognition Algorithm for Fused Hyperspectral Image by Using Combined Spectra. <i>Spectroscopy Letters</i> , 2015, 48, 251-258.	1.0	4

#	ARTICLE	IF	CITATIONS
91	Correlated-imaging-based chosen plaintext attack on general cryptosystems composed of linear canonical transforms and phase encodings. Optics Communications, 2015, 338, 164-167.	2.1	30
92	Opto-digital spectrum encryption by using Baker mapping and gyrator transform. Optics and Lasers in Engineering, 2015, 66, 285-293.	3.8	13
93	Optical color image hiding scheme by using Gerchberg-Saxton algorithm in fractional Fourier domain. Optics and Lasers in Engineering, 2015, 66, 144-151.	3.8	18
94	Multiple-image encryption based on optical asymmetric key cryptosystem. Optics Communications, 2015, 335, 205-211.	2.1	38
95	A novel double-image encryption scheme based on cross-image pixel scrambling in gyrator domains. Optics Express, 2014, 22, 7349.	3.4	67
96	A diffraction model of direction multiplexing method for hiding multiple images. Journal of Modern Optics, 2014, 61, 1127-1132.	1.3	17
97	A mixed scrambling operation for hiding image. Optik, 2013, 124, 5391-5396.	2.9	3
98	Hyperspectral and high-resolution image fusion based on second generation Bandelet transform. Optical Engineering, 2013, 52, 067001.	1.0	6
99	Asymmetric cryptosystem by using modular arithmetic operation based on double random phase encoding. Optics Communications, 2013, 301-302, 56-60.	2.1	22
100	Color image encryption based on the affine transform and gyrator transform. Optics and Lasers in Engineering, 2013, 51, 768-775.	3.8	74
101	Optical color image hiding scheme based on chaotic mapping and Hartley transform. Optics and Lasers in Engineering, 2013, 51, 967-972.	3.8	68
102	Image encryption algorithm by using fractional Fourier transform and pixel scrambling operation based on double random phase encoding. Optics and Lasers in Engineering, 2013, 51, 8-14.	3.8	156
103	Opto-digital image encryption by using Baker mapping and 1-D fractional Fourier transform. Optics and Lasers in Engineering, 2013, 51, 224-229.	3.8	25
104	Image hiding scheme by use of rotating squared sub-image in the gyrator transform domains. Optics and Laser Technology, 2013, 45, 198-203.	4.6	41
105	Double image encryption scheme by using random phase encoding and pixel exchanging in the gyrator transform domains. Optics and Laser Technology, 2013, 47, 152-158.	4.6	60
106	Asymmetric cryptosystem using random binary phase modulation based on mixture retrieval type of Yang-Gu algorithm: reply. Optics Letters, 2013, 38, 4045.	3.3	19
107	Asymmetric cryptosystem using random binary phase modulation based on mixture retrieval type of Yang-Gu algorithm. Optics Letters, 2013, 38, 1651.	3.3	132
108	Generalization and propagation of spiraling Bessel beams with a helical axicon. Chinese Physics B, 2012, 21, 014208.	1.4	21

#	ARTICLE	IF	CITATIONS
109	Hollow sinh-Gaussian beams and their paraxial properties. Optics Express, 2012, 20, 9682.	3.4	64
110	Image encryption based on the random rotation operation in the fractional Fourier transform domains. Optics and Lasers in Engineering, 2012, 50, 1352-1358.	3.8	37
111	An adaptive watermarking using fractal dimension based on random fractional Fourier transform. Optics and Laser Technology, 2012, 44, 124-129.	4.6	17
112	Image encryption by using local random phase encoding in fractional Fourier transform domains. Optik, 2012, 123, 428-432.	2.9	21
113	Image encryption algorithm based on the random local phase encoding in gyrator transform domains. Optics Communications, 2012, 285, 3921-3925.	2.1	20
114	Double image encryption by using Arnold transform and discrete fractional angular transform. Optics and Lasers in Engineering, 2012, 50, 248-255.	3.8	76
115	Virtual source for rotational symmetric Lorentz-Gaussian beam. Chinese Optics Letters, 2012, 10, 062601-62605.	2.9	9
116	Decoherence of elliptical states in phase space. Chinese Physics B, 2011, 20, 054201.	1.4	2
117	Optical stream-cipher-like system for image encryption based on Michelson interferometer. Optics Express, 2011, 19, 2634.	3.4	48
118	Generation of spiraling high-order Bessel beams. Applied Physics B: Lasers and Optics, 2011, 104, 215-221.	2.2	24
119	Optical multi-image encryption based on frequency shift. Optik, 2011, 122, 1010-1013.	2.9	45
120	Color image encryption by using Arnold transform and color-blend operation in discrete cosine transform domains. Optics Communications, 2011, 284, 123-128.	2.1	201
121	Image watermarking algorithm based on fractional Fourier transform and random phase encoding. Optics Communications, 2011, 284, 3918-3923.	2.1	35
122	Fast algorithm of discrete gyrator transform based on convolution operation. Optik, 2011, 122, 864-867.	2.9	66
123	Image encryption scheme by using iterative random phase encoding in gyrator transform domains. Optics and Lasers in Engineering, 2011, 49, 542-546.	3.8	105
124	Nonclassical properties of odd and even elliptical states. Optics Communications, 2011, 284, 282-288.	2.1	4
125	Image encryption by using gyrator transform and Arnold transform. Journal of Electronic Imaging, 2011, 20, 013020.	0.9	52
126	Image sharing scheme based on discrete fractional random transform. Optik, 2010, 121, 495-499.	2.9	14

#	ARTICLE	IF	CITATIONS
127	Image watermarking by using phase retrieval algorithm in gyrator transform domain. Optics Communications, 2010, 283, 4923-4927.	2.1	51
128	Color image encryption by using the rotation of color vector in Hartley transform domains. Optics and Lasers in Engineering, 2010, 48, 800-805.	3.8	64
129	Image encryption based on double random amplitude coding in random Hartley transform domain. Optik, 2010, 121, 959-964.	2.9	15
130	Single phase encoding method based on the fractional Fourier transform. Optik, 2010, 121, 1748-1751.	2.9	5
131	Color image encryption by using Arnold and discrete fractional random transforms in IHS space. Optics and Lasers in Engineering, 2010, 48, 1174-1181.	3.8	79
132	Phase properties of odd and even circular states. Chinese Physics B, 2010, 19, 054204.	1.4	4
133	Image encryption by encoding with a nonuniform optical beam in gyrator transform domains. Applied Optics, 2010, 49, 5632.	2.1	91
134	Image encryption based on the gyrator transform and the fractional Fourier transform. Chinese Optics Letters, 2010, 8, 290.	2.9	5
135	Double image encryption by using iterative random binary encoding in gyrator domains. Optics Express, 2010, 18, 12033.	3.4	263
136	Double-image encryption based on the affine transform and the gyrator transform. Journal of Optics (United Kingdom), 2010, 12, 035407.	2.2	67
137	Image encryption based on random scrambling of the amplitude and phase in the frequency domain. Optical Engineering, 2009, 48, 087005.	1.0	10
138	REALIZATION OF HOLOGRAPHIC STORAGE ON METAL FILM BY FEMTOSECOND LASER PULSES MICROMACHINING. Journal of Nonlinear Optical Physics and Materials, 2009, 18, 617-623.	1.8	2
139	Triple image encryption scheme in fractional Fourier transform domains. Optics Communications, 2009, 282, 518-522.	2.1	87
140	A new kind of double image encryption by using a cutting spectrum in the 1-D fractional Fourier transform domains. Optics Communications, 2009, 282, 1536-1540.	2.1	50
141	Generation of dark hollow beam by use of phase-only filtering. Optics and Lasers in Engineering, 2009, 47, 1250-1253.	3.8	9
142	Image encryption based on double folding operation in fractional Fourier transform domain. Optics Communications, 2009, 282, 1536-1540.		0
143	Image sharing scheme based on combination theory. Optics Communications, 2008, 281, 5322-5325.	2.1	30
144	A discrete fractional angular transform. Optics Communications, 2008, 281, 1424-1429.	2.1	89

#	ARTICLE	IF	CITATIONS
145	Comment on "Double-lens extended fractional Fourier transform". Applied Optics, 2008, 47, 617.	2.1	0
146	Generation of hollow Gaussian beam by phase-only filtering. Optics Express, 2008, 16, 19926.	3.4	46
147	Robustness analysis of image watermarking based on discrete fractional random transform. Optical Engineering, 2008, 47, 057003.	1.0	9
148	Randomization of the Fourier transform. Optics Letters, 2007, 32, 478.	3.3	105
149	Comment on "Optical image encryption with Hartley transforms". Optics Letters, 2007, 32, 766.	3.3	7
150	Generation of hollow Gaussian beams by spatial filtering. Optics Letters, 2007, 32, 2076.	3.3	124
151	Random fractional Fourier transform. Optics Letters, 2007, 32, 2088.	3.3	197
152	Double image encryption based on iterative fractional Fourier transform. Optics Communications, 2007, 275, 324-329.	2.1	208
153	Image encryption scheme based on the commutation and anti-commutation rules. Optics Communications, 2007, 279, 285-290.	2.1	26
154	Watermarking based on discrete fractional random transform. Optics Communications, 2007, 272, 344-348.	2.1	61
155	The discrete fractional random cosine and sine transforms. Optics Communications, 2006, 265, 100-105.	2.1	10
156	A discrete fractional random transform. Optics Communications, 2005, 255, 357-365.	2.1	153