

Shaohua Tao

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

590
citations

567281

15
h-index

677142

22
g-index

51
all docs

51
docs citations

51
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	Beam shaping of complex amplitude with separate constraints on the output beam. Optics Express, 2015, 23, 1052.	3.4	78
2	Simultaneous shaping of amplitude and phase of light in the entire output plane with a phase-only hologram. Scientific Reports, 2015, 5, 15426.	3.3	46
3	Free-space information transfer using the elliptic vortex beam with fractional topological charge. Optics Communications, 2019, 431, 238-244.	2.1	31
4	Fractal zone plate beam based optical tweezers. Scientific Reports, 2016, 6, 34492.	3.3	26
5	Optical manipulation of microparticles with the momentum flux transverse to the optical axis. Optics and Laser Technology, 2019, 113, 266-272.	4.6	26
6	Power-exponent helico-conical optical beams. Optics and Laser Technology, 2019, 117, 288-292.	4.6	25
7	Generation of phase-gradient optical beams with an iterative algorithm. Journal of Optics (United Kingdom), 2018, 18, 105603.	2.2	24
8	Quick Optical Identification of the Defect Formation in Monolayer WSe ₂ for Growth Optimization. Nanoscale Research Letters, 2019, 14, 274.	5.7	23
9	Composite Thue-Morse zone plates. Optics Express, 2016, 24, 12740.	3.4	20
10	Generation of three equal-intensity foci based on a modified composite zone plate. Optik, 2018, 159, 150-156.	2.9	20
11	Direct bilayer growth: a new growth principle for a novel WSe ₂ homo-junction and bilayer WSe ₂ growth. Nanoscale, 2020, 12, 3715-3722.	5.6	18
12	Annular beam with segmented phase gradients. AIP Advances, 2016, 6, .	1.3	17
13	Optical Tweezers With Fractional Fractal Zone Plate. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	16
14	Vortex-based line beam optical tweezers. Journal of Optics (United Kingdom), 2016, 18, 105603.	2.2	16
15	A spiral-like curve with an adjustable opening generated by a modified helico-conical beam. Optics Communications, 2020, 458, 124824.	2.1	16
16	Optical trapping of a dielectric-covered metallic microsphere. Journal of Optics (United Kingdom), 2015, 17, 105613.	2.2	15
17	Modified Thue-Morse zone plates with arbitrarily designed high-intensity twin main foci. Laser Physics, 2017, 27, 125001.	1.2	14
18	Two pairs of twin foci with the golden mean generated by a modified Fibonacci zone plate. Journal of Optics (United Kingdom), 2019, 21, 035602.	2.2	13

#	ARTICLE	IF	CITATIONS
19	Self-healing of the bored helico-conical beam. <i>Optics Express</i> , 2022, 30, 9924.	3.4	12
20	The generalized mean zone plate. <i>Laser Physics</i> , 2018, 28, 066201.	1.2	11
21	An arbitrarily designed main focus with high intensity generated by a composite fractional fractal zone plate. <i>Optics Communications</i> , 2019, 430, 348-351.	2.1	11
22	Imaging properties of generalized composite aperiodic zone plates. <i>Optics Express</i> , 2020, 28, 27181.	3.4	11
23	Self-rotating beam in the free space propagation. <i>Optics Express</i> , 2022, 30, 5465.	3.4	11
24	Two high-intensity foci with the generalized mean generated by a kinoform generalized mean lens. <i>Optik</i> , 2018, 175, 99-104.	2.9	10
25	Autofocusing Airy beams carrying a new kind of power-exponent-phase vortices. <i>Optics Communications</i> , 2022, 507, 127635.	2.1	9
26	Four equal-intensity foci generated by a Cantor–Thue–Morse zone plate. <i>Laser Physics</i> , 2019, 29, 085003.	1.2	6
27	Ring-broken optical vortices with an adjustable opening. <i>Results in Physics</i> , 2019, 15, 102689.	4.1	6
28	A general n-fractal aperiodic zone plate. <i>Journal of Modern Optics</i> , 2019, 66, 1179-1189.	1.3	6
29	Composite Spiral Zone Plate. <i>IEEE Photonics Journal</i> , 2019, 11, 1-11.	2.0	6
30	Fibonacci-like zone plate. <i>Laser Physics</i> , 2018, 28, 066203.	1.2	5
31	An annular beam with segmented phase gradients generated by a modified spiral zone plate. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115602.	2.2	5
32	Transportation of dielectric particles along illumination pattern with bend and phase gradient. <i>Optics Communications</i> , 2020, 458, 124842.	2.1	5
33	Microparticle sorting with a virtual optical chip. <i>Review of Scientific Instruments</i> , 2021, 92, 053201.	1.3	5
34	Tailorable polygon-like beams generated by modified spiral petal-like zone plates. <i>Results in Physics</i> , 2021, 21, 103823.	4.1	4
35	Twin equal-intensity foci with the same resolution generated by a modified precious mean zone plate. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1067.	1.5	4
36	Long distance and direction-controllable conveyor for automatic particle transportation based on optical tweezers. <i>Sensors and Actuators A: Physical</i> , 2022, 333, 113223.	4.1	4

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37	Phase retrieval-based distribution detecting method for transparent objects. <i>Optical Engineering</i> , 2015, 54, 113103.	1.0	3
38	Controlled growth of transition metal dichalcogenide via thermogravimetric prediction of precursors vapor concentration. <i>Nano Research</i> , 2021, 14, 2867-2874.	10.4	3
39	Colourful imaging and self-reconstruction properties of modified single-focus fractal zone plates. <i>Optics Express</i> , 2020, 28, 37827.	3.4	3
40	Three tailorable optical vortices generated by a modified fractal spiral forked plate. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 045603.	2.2	2
41	Two polygon-like beams generated by a modified interfering vortex spiral zone plate. <i>Results in Physics</i> , 2021, 29, 104762.	4.1	2
42	Two tailorable two-arms-cross patterns with equal intensity generated by a composite square zone plate. <i>Modern Physics Letters B</i> , 2020, 34, 2050072.	1.9	1
43	Auto-alignment of CdS nanowires via optical tweezers. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	1
44	Storage and reconstruction of multiple color images with a phase-only hologram. <i>Journal of Physics Communications</i> , 2018, 2, 055021.	1.2	0
45	The phase-only Tribonacci photon sieve. <i>Optics Communications</i> , 2020, 474, 126090.	2.1	0
46	10.1063/5.0047316.1., 2021, , .		0
47	Adjustable square optical vortices generated by modified square spiral zone plates. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2383.	2.1	0
48	Funnel-shaped waveguides for semiunidirectional optical transmission. <i>Optical Engineering</i> , 2019, 58, 1.	1.0	0
49	A modified multiplexed vortex helico-conical petal-like zone plate. <i>Physica Scripta</i> , 2021, 96, 125529.	2.5	0
50	A Polygon-Like Light-Arm Zone Plate. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 355-358.	2.5	0
51	Extended bifocal depth imaging with modified generalized composite kinoform Fibonacci lenses. <i>Optics and Laser Technology</i> , 2022, 152, 108162.	4.6	0