

Guoquan Zhou

List of Publications by Year in descending order

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49
papers

2,338
citations

361413

20
h-index

206112

48
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all docs

49
docs citations

49
times ranked

2500
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion sieving in graphene oxide membranes via cationic control of interlayer spacing. <i>Nature</i> , 2017, 550, 380-383.	27.8	1,171
2	Interaction of Graphene and its Oxide with Lipid Membrane: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6225-6231.	3.1	101
3	Propagation of Airy beams in uniaxial crystals orthogonal to the optical axis. <i>Optics Express</i> , 2012, 20, 2196.	3.4	87
4	Propagation of an Airy beam in a strongly nonlocal nonlinear media. <i>Laser Physics Letters</i> , 2014, 11, 105001.	1.4	85
5	Fractional Fourier transform of Lorentz-Gauss beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 350.	1.5	64
6	Focal shift of focused truncated Lorentz-Gauss beam. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 2594.	1.5	51
7	The beam propagation factors and the kurtosis parameters of a Lorentz beam. <i>Optics and Laser Technology</i> , 2009, 41, 953-955.	4.6	44
8	Average intensity and spreading of a Lorentz-Gauss beam in turbulent atmosphere. <i>Optics Express</i> , 2010, 18, 726.	3.4	43
9	Propagation of a partially coherent cosine-Gaussian beam through an ABCD optical system in turbulent atmosphere. <i>Optics Express</i> , 2009, 17, 10529.	3.4	42
10	Beam propagation of a higher-order cosh-Gaussian beam. <i>Optics and Laser Technology</i> , 2009, 41, 202-208.	4.6	41
11	The far-field divergent properties of an Airy beam. <i>Optics and Laser Technology</i> , 2012, 44, 1318-1323.	4.6	38
12	The analytical vectorial structure of a nonparaxial Gaussian beam close to the source. <i>Optics Express</i> , 2008, 16, 3504.	3.4	35
13	Propagation of cosh-Airy beams in uniaxial crystals orthogonal to the optical axis. <i>Optics and Laser Technology</i> , 2019, 116, 72-82.	4.6	33
14	Propagation of a partially coherent Lorentz-Gauss beam through a paraxial ABCD optical system. <i>Optics Express</i> , 2010, 18, 4637.	3.4	32
15	Fractional Fourier transform of Airy beams. <i>Applied Physics B: Lasers and Optics</i> , 2012, 109, 549-556.	2.2	32
16	Generalized beam propagation factors of truncated partially coherent cosine-Gaussian and cosh-Gaussian beams. <i>Optics and Laser Technology</i> , 2010, 42, 489-496.	4.6	31
17	Fractional Fourier transform of a higher-order cosh-Gaussian beam. <i>Journal of Modern Optics</i> , 2009, 56, 886-892.	1.3	27
18	Abruptly autofocusing of generalized circular Airy derivative beams. <i>Optics Express</i> , 2022, 30, 3804.	3.4	26

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19	Airy transform of Laguerre-Gaussian beams. <i>Optics Express</i> , 2020, 28, 19683.	3.4	25
20	Beam Propagation Factor of a Cosh-Airy Beam. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1817.	2.5	20
21	Self-healing properties of cosh-Airy beams. <i>Laser Physics</i> , 2019, 29, 025001.	1.2	20
22	Propagation dynamics of abruptly autofocusing circular Airyprime beam with an optical vortex. <i>Optics and Laser Technology</i> , 2022, 155, 108398.	4.6	19
23	Investigation in the far field characteristics of Lorentz beam from the vectorial structure. <i>Journal of Modern Optics</i> , 2008, 55, 993-1002.	1.3	18
24	Analytical vectorial structure of controllable dark-hollow beams in the far field. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 1654.	1.5	18
25	Airyprime beams and their propagation characteristics. <i>Laser Physics Letters</i> , 2014, 12, 025003.	1.4	18
26	Transformation of a Hermite-Gaussian beam by an Airy transform optical system. <i>Optics Express</i> , 2020, 28, 28518.	3.4	18
27	Fractional Fourier transform of Ince-Gaussian beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 2586.	1.5	15
28	Encapsulation and Release of Drug Molecule Pregabalin Based on Ultrashort Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9567-9574.	3.1	15
29	Selective Transport through the Ultrashort Carbon Nanotubes Embedded in Lipid Bilayers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27681-27688.	3.1	14
30	Characteristics of Partially Coherent Circular Flattened Gaussian Vortex Beams in Turbulent Biological Tissues. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 969.	2.5	14
31	Propagation of Cosh-Airy and Cos-Airy Beams in Parabolic Potential. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5530.	2.5	14
32	Realization and measurement of Airy transform of Gaussian vortex beams. <i>Optics and Laser Technology</i> , 2021, 143, 107334.	4.6	14
33	Propagation of vectorial Lorentz beam beyond the paraxial approximation. <i>Journal of Modern Optics</i> , 2008, 55, 3573-3579.	1.3	13
34	Properties of Airy transform of elegant Hermite-Gaussian beams. <i>Optics and Laser Technology</i> , 2021, 140, 107034.	4.6	13
35	Generation of finite energy Airyprime beams by Airy transformation. <i>Optics Express</i> , 2022, 30, 24948.	3.4	11
36	Change of the paraxiality of a Gaussian beam diffracted by a circular aperture. <i>Optics Express</i> , 2009, 17, 8417.	3.4	10

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37	Beam propagation factor and kurtosis parameter of hollow vortex Gaussian beams: an alternative method. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1908.	1.5	10
38	Super Lorentz-Gauss modes and their paraxial propagation properties. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 563.	1.5	9
39	Carbon Nanotubes Translocation through a Lipid Membrane and Transporting Small Hydrophobic and Hydrophilic Molecules. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4271.	2.5	9
40	Non-paraxial investigation in the far field properties of controllable dark-hollow beams diffracted by a circular aperture. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 890.	1.5	8
41	Fullerene-intercalated graphene nanocontainers for gas storage and sustained release. <i>Journal of Molecular Modeling</i> , 2020, 26, 166.	1.8	7
42	The structural properties of cosine-Gaussian beam in the far field. <i>Journal of Modern Optics</i> , 2008, 55, 2485-2495.	1.3	6
43	Investigation in the propagation of non-paraxial TE vector Gaussian beam from vectorial structure. <i>Journal of Modern Optics</i> , 2007, 54, 1151-1163.	1.3	4
44	Vectorial structural properties of a Gaussian vortex beam in the far-field. <i>Laser Physics</i> , 2015, 25, 125001.	1.2	4
45	The vertical beam quality of GaInP/AlGaInP strained multiple quantum well laser. <i>Journal of Modern Optics</i> , 2001, 48, 1855-1861.	1.3	3
46	Vectorial structure of Inceâ€“Gaussian beam in the far field. <i>Journal of Modern Optics</i> , 2007, 54, 2807-2817.	1.3	3
47	Characteristics of a Gaussian beam after n times Airy transforms. <i>Optics and Laser Technology</i> , 2022, 149, 107892.	4.6	2
48	Analytical non-paraxial TM polarized Gaussian beam in the source region. <i>Journal of Modern Optics</i> , 2009, 56, 910-918.	1.3	1
49	Progress in New Laser Beam on Optical Beam Quality. <i>The Review of Laser Engineering</i> , 2004, 32, 237-240.	0.0	0