Guoquan Zhou

List of Publications by Year
in descending order

49 papers	2,338 citations	361413 20 h-index	206112 48 g-index
49 all docs	49 docs citations	49 times ranked	2500 citing authors

#	Article	IF	Citations
1	Abruptly autofocusing of generalized circular Airy derivative beams. Optics Express, 2022, 30, 3804.	3.4	26
2	Characteristics of a Gaussian beam after n times Airy transforms. Optics and Laser Technology, 2022, 149, 107892.	4.6	2
3	Generation of finite energy Airyprime beams by Airy transformation. Optics Express, 2022, 30, 24948.	3.4	11
4	Propagation dynamics of abruptly autofocusing circular Airyprime beam with an optical vortex. Optics and Laser Technology, 2022, 155, 108398.	4.6	19
5	Properties of Airy transform of elegant Hermite-Gaussian beams. Optics and Laser Technology, 2021, 140, 107034.	4.6	13
6	Realization and measurement of Airy transform of Gaussian vortex beams. Optics and Laser Technology, 2021, 143, 107334.	4.6	14
7	Fullerene-intercalated graphene nanocontainers for gas storage and sustained release. Journal of Molecular Modeling, 2020, 26, 166.	1.8	7
8	Airy transform of Laguerre-Gaussian beams. Optics Express, 2020, 28, 19683.	3.4	25
9	Transformation of a Hermite-Gaussian beam by an Airy transform optical system. Optics Express, 2020, 28, 28518.	3.4	18
10	Beam Propagation Factor of a Cosh-Airy Beam. Applied Sciences (Switzerland), 2019, 9, 1817.	2.5	20
11	Propagation of cosh-Airy beams in uniaxial crystals orthogonal to the optical axis. Optics and Laser Technology, 2019, 116, 72-82.	4.6	33
12	Self-healing properties of cosh-Airy beams. Laser Physics, 2019, 29, 025001.	1.2	20
13	Characteristics of Partially Coherent Circular Flattened Gaussian Vortex Beams in Turbulent Biological Tissues. Applied Sciences (Switzerland), 2019, 9, 969.	2.5	14
14	Encapsulation and Release of Drug Molecule Pregabalin Based on Ultrashort Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2019, 123, 9567-9574.	3.1	15
15	Propagation of Cosh-Airy and Cos-Airy Beams in Parabolic Potential. Applied Sciences (Switzerland), 2019, 9, 5530.	2.5	14
16	Carbon Nanotubes Translocation through a Lipid Membrane and Transporting Small Hydrophobic and Hydrophilic Molecules. Applied Sciences (Switzerland), 2019, 9, 4271.	2.5	9
17	Beam propagation factor and kurtosis parameter of hollow vortex Gaussian beams: an alternative method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1908.	1.5	10
18	Selective Transport through the Ultrashort Carbon Nanotubes Embedded in Lipid Bilayers. Journal of Physical Chemistry C, 2018, 122, 27681-27688.	3.1	14

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19	Ion sieving in graphene oxide membranes via cationic control of interlayer spacing. Nature, 2017, 550, 380-383.	27.8	1,171
20	Interaction of Graphene and its Oxide with Lipid Membrane: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry C, 2016, 120, 6225-6231.	3.1	101
21	Vectorial structural properties of a Gaussian vortex beam in the far-field. Laser Physics, 2015, 25, 125001.	1.2	4
22	Airyprime beams and their propagation characteristics. Laser Physics Letters, 2014, 12, 025003.	1.4	18
23	Propagation of an Airy beam in a strongly nonlocal nonlinear media. Laser Physics Letters, 2014, 11, 105001.	1.4	85
24	Propagation of Airy beams in uniaxial crystals orthogonal to the optical axis. Optics Express, 2012, 20, 2196.	3.4	87
25	Fractional Fourier transform of Airy beams. Applied Physics B: Lasers and Optics, 2012, 109, 549-556.	2.2	32
26	The far-field divergent properties of an Airy beam. Optics and Laser Technology, 2012, 44, 1318-1323.	4.6	38
27	Generalized beam propagation factors of truncated partially coherent cosine-Gaussian and cosh-Gaussian beams. Optics and Laser Technology, 2010, 42, 489-496.	4.6	31
28	Propagation of a partially coherent Lorentz-Gauss beam through a paraxial ABCD optical system. Optics Express, 2010, 18, 4637.	3.4	32
29	Super Lorentz-Gauss modes and their paraxial propagation properties. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 563.	1.5	9
30	Non-paraxial investigation in the far field properties of controllable dark-hollow beams diffracted by a circular aperture. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 890.	1.5	8
31	Average intensity and spreading of a Lorentz-Gauss beam in turbulent atmosphere. Optics Express, 2010, 18, 726.	3.4	43
32	Analytical non-paraxial TM polarized Gaussian beam in the source region. Journal of Modern Optics, 2009, 56, 910-918.	1.3	1
33	Fractional Fourier transform of a higher-order coshâ€“Gaussian beam. Journal of Modern Optics, 2009, 56, 886-892.	1.3	27
34	Beam propagation of a higher-order cosh-Gaussian beam. Optics and Laser Technology, 2009, 41, 202-208.	4.6	41
35	The beam propagation factors and the kurtosis parameters of a Lorentz beam. Optics and Laser Technology, 2009, 41, 953-955.	4.6	44
36	Fractional Fourier transform of Lorentz-Gauss beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 350.	1.5	64

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37	Analytical vectorial structure of controllable dark-hollow beams in the far field. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1654.	1.5	18
38	Fractional Fourier transform of Ince-Gaussian beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2586.	1.5	15
39	Change of the paraxiality of a Gaussian beam diffracted by a circular aperture. Optics Express, 2009, 17, 8417.	3.4	10
40	Propagation of a partially coherent cosine-Gaussian beam through an ABCD optical system in turbulent atmosphere. Optics Express, 2009, 17, 10529.	3.4	42
41	Focal shift of focused truncated Lorentz-Gauss beam. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2594.	1.5	51
42	The analytical vectorial structure of a nonparaxial Gaussian beam close to the source. Optics Express, 2008, 16, 3504.	3.4	35
43	Investigation in the far field characteristics of Lorentz beam from the vectorial structure. Journal of Modern Optics, 2008, 55, 993-1002.	1.3	18
44	Propagation of vectorial Lorentz beam beyond the paraxial approximation. Journal of Modern Optics, 2008, 55, 3573-3579.	1.3	13
45	The structural properties of cosine-Gaussian beam in the far field. Journal of Modern Optics, 2008, 55, 2485-2495.	1.3	6
46	Vectorial structure of Inceâ€“Gaussian beam in the far field. Journal of Modern Optics, 2007, 54, 2807-2817.	1.3	3
47	Investigation in the propagation of non-paraxial TE vector Gaussian beam from vectorial structure. Journal of Modern Optics, 2007, 54, 1151-1163.	1.3	4
48	Progress in New Laser Beam on Optical Beam Quality. The Review of Laser Engineering, 2004, 32, 237-240.	0.0	0
49	The vertical beam quality of GaInP/AlGaInP strained multiple quantum well laser. Journal of Modern Optics, 2001, 48, 1855-1861.	1.3	3