Jia Jie Wang

List of Publications by Year
in descending order

42	670	623734	610901
papers	citations	14	24
		h-index	g-index

42	42	42	220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multipole expansion of circularly symmetric Bessel beams of arbitrary order for scattering calculations. Optics Communications, 2017, 387, 102-109.	2.1	69
2	General description of circularly symmetric Bessel beams of arbitrary order. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 218-232.	2.3	68
3	Photonic jet generated by spheroidal particle with Gaussian-beam illumination. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1476.	2.1	48
4	General description of transverse mode Bessel beams and construction of basis Bessel fields. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 195, 8-17.	2.3	41
5	Note on the use of localized beam models for light scattering theories in spherical coordinates. Applied Optics, 2012, 51, 3832.	1.8	35
6	On the validity of the integral localized approximation for Bessel beams and associated radiation pressure forces. Applied Optics, 2017, 56, 5377.	2.1	35
7	Assessing the validity of the localized approximation for discrete superpositions of Bessel beams. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2690.	2.1	32
8	Internal and near-surface electromagnetic fields for a dielectric spheroid illuminated by a zero-order Bessel beam. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1946.	1.5	25
9	Bessel-Gauss beams in the generalized Lorenz-Mie theory using three remodeling techniques. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107292.	2.3	23
10	Numerical study of global rainbow technique: sensitivity to non-sphericity of droplets. Experiments in Fluids, 2011, 51, 149-159.	2.4	21
11	Light scattering from an optically anisotropic particle illuminated by an arbitrary shaped beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 167, 135-144.	2.3	20
12	Shaped beam scattering by an aggregate of particles using generalized Lorenzâ€“Mie theory. Optics Communications, 2016, 365, 186-193.	2.1	19
13	T-matrix method for electromagnetic scattering by a general anisotropic particle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 66-76.	2.3	17
14	Efficient computation of arbitrary beam scattering on a sphere: Comments and rebuttal, with a review on the angular spectrum decomposition. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107913.	2.3	16
15	Electromagnetic scattering from gyroelectric anisotropic particle by the T-matrix method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 135, 20-29.	2.3	14
16	Intensity, phase, and polarization of a vector Bessel vortex beam through multilayered isotropic media. Applied Optics, 2018, 57, 1967.	1.8	14
17	Theoretical prediction of photophoretic force on a dielectric sphere illuminated by a circularly symmetric high-order Bessel beam: on-axis case. Optics Express, 2021, 29, 26894.	3.4	13
18	Characteristics of photonic jets generated by a dielectric sphere illuminated by a Gaussian beam. Applied Optics, 2020, 59, 6390.	1.8	13

#	Article	IF	Citations
19	Analysis of electromagnetic scattering characteristics of plasma sheath surrounding a hypersonic aerocraft based on high-order auxiliary differential equation finite-difference time-domain. Physics of Plasmas, 2018, 25, .	1.9	12
20	Explicit analytical expressions for the electromagnetic field components of typical structured light beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 241, 106715.	2.3	12
21	Finite series algorithm design for lens-focused Laguerreâ€“Gauss beams in the generalized Lorenzâ€“Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 261, 107488.	2.3	12
22	Controllable and enhanced photonic jet generated by fiber combined with spheroid. Optics Letters, 2014, 39, 1585.	3.3	11
23	Light scattering of a Bessel beam by a nucleated biological cell: An eccentric sphere model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 22-30.	2.3	11
24	Optical trapping forces on Rayleigh particles by a focused Bessel-Gaussian correlated Schell-model beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 309-316.	2.3	11
25	Shaped beam scattering from a single lymphocyte cell by generalized Lorenzâ€“Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 72-80.	2.3	10
26	Implementation of nondiffracting Bessel beam sources in FDTD for scattering by complex particles. Optics Express, 2018, 26, 26766.	3.4	10
27	Generation of Bessel beam sources in FDTD. Optics Express, 2018, 26, 28727.	3.4	10
28	Internal field distribution of a radially inhomogeneous droplet illuminated by an arbitrary shaped beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 19-34.	2.3	7
29	Rainbow pattern analysis of a multilayered sphere for optical diagnostic of a heating droplet. Optics Communications, 2019, 441, 113-120.	2.1	6
30	Polarization-sensitive photonic jet of a dielectric sphere excited by a zero-order Bessel beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 280, 108093.	2.3	6
31	Scattering of aggregated particles illuminated by a zeroth-order Bessel beam. Optics Communications, 2017, 391, 42-47.	2.1	5
32	Backward Scattering Characteristics of a Reentry Vehicle Enveloped by a Hypersonic Flow Field. International Journal of Antennas and Propagation, 2018, 2018, 1-14.	1.2	5
33	Poynting vector and beam shape coefficients: On new families of symmetries (non-dark axisymmetric) Tj ETQq1 1 0.784314 rgBT /Ov Radiative Transfer, 2021, 271, 107745.	2.3	5
34	Geometrical optics approximation for forward light scattering by a large chiral sphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 228, 90-96.	2.3	4
35	Towards photophoresis with the generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108266.	2.3	3
36	Tensor ABCD law for misaligned inline particle holography of inclusions in a host droplet. Applied Optics, 2017, 56, 1526.	2.1	2

#	Article	IF	Citations
37	Photonic jet generated by a dielectric spheroid with Bessel beam excitation. , 2020, , .		2
38	Vectorial analytical description of the polarized light of a high-power laser diode. Applied Optics, 2013, 52, 1711.	1.8	1
39	Electromagnetic scattering of an aggregate of particles illuminated by an arbitrary shaped beam. Proceedings of SPIE, 2015, , .	0.8	1
40	Generation of an arbitrary order Bessel beam in FDTD for time domain calculation. , 2019, , .		1
41	Light Wave Propagation and Scattering Through Particles. , 2017, , .		0
42	Computation of Bessel Beams in the FDTD Method. , 2018, , .		0