

Jianqi Shen

List of Publications by Year in descending order

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84
papers

716
citations

623734

14
h-index

713466

21
g-index

85
all docs

85
docs citations

85
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of regularization parameter of inversion in particle sizing using light extinction method. <i>Particuology: Science and Technology of Particles</i> , 2007, 5, 295-299.	0.4	43
2	Calculation of Debye series expansion of light scattering. <i>Applied Optics</i> , 2010, 49, 2422.	2.1	37
3	Extension of geometrical-optics approximation to on-axis Gaussian beam scattering II By a spheroidal particle with end-on incidence. <i>Applied Optics</i> , 2006, 45, 5000.	2.1	34
4	Improved algorithm of light scattering by a coated sphere. <i>Particuology: Science and Technology of Particles</i> , 2007, 5, 230-236.	0.4	28
5	Geometrical optics approximation of light scattering by large air bubbles. <i>Particuology</i> , 2008, 6, 340-346.	3.6	28
6	The Fundamentals of Particle Size Analysis by Transmission Fluctuation Spectrometry.. <i>Particle and Particle Systems Characterization</i> , 2003, 20, 94-103.	2.3	25
7	The Fundamentals of Particle Size Analysis by Transmission Fluctuation Spectrometry. Part 2: A Theory on Transmission Fluctuations with Combined Spatial and Temporal Averaging. <i>Particle and Particle Systems Characterization</i> , 2001, 18, 134.	2.3	21
8	Particle Size Analysis by Transmission Fluctuation Spectrometry: Experimental Results Obtained with a Gaussian Beam and Analog Signal Processing. <i>Particle and Particle Systems Characterization</i> , 2003, 20, 250-258.	2.3	21
9	Beam shape coefficient calculation for a Gaussian beam: localized approximation, quadrature and angular spectrum decomposition methods. <i>Applied Optics</i> , 2018, 57, 302.	1.8	20
10	Stability in Debye series calculation for light scattering by absorbing particles and bubbles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 772-781.	2.3	18
11	Laser diode feedback interferometry in flowing Brownian motion system: a novel theory. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 173-183.	2.2	17
12	Influences of refractive index on forward light scattering. <i>Optics Communications</i> , 2014, 316, 198-205.	2.1	17
13	Algorithm of Numerical Calculation on Lorentz Mie Theory. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2005, 1, 691-694.	0.4	17
14	Angular spectrum representation of the Bessel-Gauss beam and its approximation: A comparison with the localized approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 284, 108167.	2.3	16
15	Geometrical optics approximation for light scattering by absorbing spherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1178-1189.	2.3	15
16	Application of vector ray tracing to the computation of MÃ¶bius shifts for the primary and secondary rainbows. <i>Applied Optics</i> , 2015, 54, 9093.	2.1	14
17	Calculation of generalized Lorenz-Mie theory based on the localized beam models. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 195, 44-54.	2.3	13
18	Calculation of light scattering of an elliptical Gaussian beam by a spherical particle. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 1288.	1.5	13

#	ARTICLE	IF	CITATIONS
19	Transmission Fluctuation Spectrometry with Spatial Correlation. Particle and Particle Systems Characterization, 2005, 22, 24-37.	2.3	12
20	Power spectral density of self-mixing signals from a flowing Brownian motion system. Applied Physics B: Lasers and Optics, 2012, 106, 127-134.	2.2	12
21	Measurements of refractive index and size of a spherical drop from Gaussian beam scattering in the primary rainbow region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 207, 83-88.	2.3	12
22	Extinction by a Large Spherical Particle Located in a Narrow Gaussian Beam. Particle and Particle Systems Characterization, 2001, 18, 254-261.	2.3	11
23	Measurements of particle-size distribution and concentration by transmission fluctuation spectrometry with temporal correlation. Optics Letters, 2005, 30, 2098.	3.3	11
24	Transmission Fluctuation Spectrometry in Concentrated Suspensions Part One: Effects of the Monolayer Structure. Particle and Particle Systems Characterization, 2004, 21, 429-439.	2.3	10
25	Transmission Fluctuation Spectrometry in Concentrated Suspensions Part Two: Particle Overlapping. Particle and Particle Systems Characterization, 2004, 21, 440-454.	2.3	10
26	Smoothness-constrained projection method for particle analysis based on forward light scattering. Applied Optics, 2008, 47, 1718.	2.1	10
27	Curved photonic jet produced from a spherical particle illuminated by a Bessel-Gaussian beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107765.	2.3	10
28	Size measurement of nano-particles using self-mixing effect. Chinese Optics Letters, 2008, 6, 871-874.	2.9	9
29	Fast and economic signal processing technique of laser diode self-mixing interferometry for nanoparticle size measurement. Applied Physics B: Lasers and Optics, 2014, 115, 285-291.	2.2	9
30	Dependence of the forward light scattering on the refractive index of particles. Optics and Laser Technology, 2018, 101, 232-241.	4.6	9
31	Spherical harmonics expansion of the evanescent waves in angular spectrum decomposition of shaped beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107012.	2.3	9
32	Fundamentals of transmission fluctuation spectrometry with variable spatial averaging. Particology: Science and Technology of Particles, 2003, 1, 242-246.	0.4	8
33	åæ”¶ä»«è`ä,çš,,å...%ã¼/4æ’ååå°°,æš~å°°, Chinese Optics Letters, 2010, 8, 111.	2.9	8
34	Model for computing optical caustic partitions for the primary rainbow from tilted spheroidal drops. Optics Letters, 2019, 44, 823.	3.3	8
35	Angular spectrum decomposition method and quadrature method in the generalized Lorenz-Mie theory for evaluating the beam shape coefficients of TEM x_{lm} theory for evaluating the beam shape coefficients of TEM x_{lm} . Optics Communications, 2022, 515, 128224.	2.1	8
36	Transmission Fluctuation Spectrometry in Concentrated Suspensions. Part Three: Measurements. Particle and Particle Systems Characterization, 2005, 22, 14-23.	2.3	7

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37	Compact formulation of the beam shape coefficients for elliptical Gaussian beam based on localized approximation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 2256.	1.5	7
38	Beam shape coefficients calculation for an elliptical Gaussian beam with 1-dimensional quadrature and localized approximation methods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 212, 139-148.	2.3	7
39	Cylindrical wave spectrum decomposition method for evaluating the expansion coefficients of the shaped beams in spherical coordinates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 283, 108138.	2.3	7
40	Vector similarity measure for particle size analysis based on forward light scattering. <i>Applied Optics</i> , 2015, 54, 3855.	2.1	6
41	Particle Scattering Photography Approach for Poorly Illuminated Multiphase Reactors. II: Experimental Validation and Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8405-8412.	3.7	6
42	Measurement of particle size and refractive index based on interferometric particle imaging. <i>Optics and Laser Technology</i> , 2021, 141, 107110.	4.6	6
43	Simulation of the optical caustics associated with the primary rainbow for oblate spheroidal drops illuminated by a Gaussian beam. <i>Optics Express</i> , 2021, 29, 377.	3.4	6
44	Scattering of Laguerre-Gauss light beam by a sphere: the angular spectrum decomposition method and a comparison with the localized approximation method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 287, 108214.	2.3	6
45	Light scattering of particles illuminated by a divergent beam. <i>Optics and Lasers in Engineering</i> , 2012, 50, 1410-1415.	3.8	5
46	Iterative algorithm based on a combination of vector similarity measure and B-spline functions for particle analysis in forward scattering. <i>Optics and Laser Technology</i> , 2017, 91, 13-21.	4.6	5
47	Characterization of refractive index and size of a spherical drop by using Gaussian beam scattering in the secondary rainbow region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106785.	2.3	5
48	Diffraction effects in planar wave-sphere interaction. <i>Chinese Optics Letters</i> , 2013, 11, 050501-50504.	2.9	5
49	Data inversion algorithms for droplet characterization based on simulated rainbows. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107986.	2.3	5
50	Scattering of Shaped Beams by Large Particles: Theoretical Interpretation and Numerical Techniques. <i>Springer Series in Light Scattering</i> , 2021, , 125-158.	0.6	5
51	Signal Processing In Transmission Fluctuation Spectrometry With Band-Pass Filter. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	4
52	Measurements on Particle Size Distribution and Concentration by Transmission Fluctuation Spectrometry with Temporal Correlation. <i>Particle and Particle Systems Characterization</i> , 2008, 25, 231-243.	2.3	4
53	Particle size analysis by transmission fluctuation spectrometry with band-pass filters. <i>Powder Technology</i> , 2008, 184, 291-297.	4.2	4
54	Transmission fluctuation method for particle analysis in multiphase flow. <i>International Journal of Multiphase Flow</i> , 2008, 34, 931-937.	3.4	4

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55	Particle analysis on concentrated particle suspensions by transmission fluctuation spectrometry with band-pass filters: part 1. Simulation. Measurement Science and Technology, 2010, 21, 065105.	2.6	4
56	Multi-parameter regularization method for particle sizing of forward light scattering. Journal of Modern Optics, 2017, 64, 787-798.	1.3	4
57	Inclusion of the tunneling phase shift for interferometric particle imaging for bubble sizing. Particuology, 2021, 54, 50-57.	3.6	4
58	Phase critical angle scattering for measurement of transient nanoscale growth rate of a micron-sized bubble. Optics Letters, 2019, 44, 5699.	3.3	4
59	A new algorithm of relaxation method for particle analysis from forward scattered light. Particuology: Science and Technology of Particles, 2006, 4, 13-19.	0.4	3
60	Numerical calculation of multiple scattering with the layer model. Particuology, 2009, 7, 76-82.	3.6	3
61	Diffraction of a plane wave by an infinitely long circular cylinder or a sphere: solution from Mie theory. Applied Optics, 2013, 52, 5707.	1.8	3
62	Online measurement of nanoparticle size distribution in flowing Brownian motion system using laser diode self-mixing interferometry. Applied Physics B: Lasers and Optics, 2015, 120, 129-139.	2.2	3
63	Modified iterative vector similarity measure for particle size analysis based on forward light scattering. Applied Optics, 2016, 55, 6183.	2.1	3
64	Particle Scattering Photography Approach for Poorly Illuminated Multiphase Reactors. I: Theoretical Model and Simulation. Industrial & Engineering Chemistry Research, 2018, 57, 8396-8404.	3.7	3
65	Particle analysis based on light scattering of particles illuminated by a divergent Gaussian beam. Optics and Lasers in Engineering, 2013, 51, 826-831.	3.8	2
66	Simulation of optical caustics associated with the tertiary rainbow of oblate droplets. Applied Optics, 2016, 55, 6447.	2.1	2
67	Use of non-negative constraint in Tikhonov regularization for particle sizing based on forward light scattering. Journal of Modern Optics, 2016, 63, 1630-1637.	1.3	2
68	Internal and external-fields of a multilayered sphere illuminated by the shaped beam: Rescaled quantities for numerical calculation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 250, 107004.	2.3	2
69	Transmission and diffraction pattern by a monolayer of opaque spheres. Particuology: Science and Technology of Particles, 2004, 2, 248-252.	0.4	1
70	Scattering and Transmission by a Monolayer of Spheres: A Study on the Monolayer Structure. Particle and Particle Systems Characterization, 2005, 22, 320-328.	2.3	1
71	Particle sizing by spectral analysis on transmission fluctuations. Powder Technology, 2006, 166, 91-99.	4.2	1
72	Fundamentals of particle size analysis by fluctuating transmission autocorrelation with an extremely narrow beam. Measurement: Journal of the International Measurement Confederation, 2008, 41, 55-64.	5.0	1

#	ARTICLE	IF	CITATIONS
73	Particle analysis on concentrated particle suspensions by transmission fluctuation spectrometry with band-pass filters: part 2. Experimental results. Measurement Science and Technology, 2010, 21, 065106.	2.6	1
74	Optical caustics associated with the primary and the secondary rainbows of oblate droplets. Proceedings of SPIE, 2014, , .	0.8	1
75	Comparison of a standard elliptical Bessel beam and a refracted circular Bessel beam at oblique incidence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107773.	2.3	1
76	<title>First principle studies on the optical properties of PbWO_4 crystal with oxygen vacancy V_O , 2006, 6029, 340.		0
77	Particle Size Analysis By Transmission Fluctuation Spectrometry With Temporal Correlation: Theory And Simulations On Particle Overlapping. AIP Conference Proceedings, 2007, , .	0.4	0
78	Particle analysis by transmission fluctuation spectrometry with temporal correlation in multiphase flow. Flow Measurement and Instrumentation, 2007, 18, 166-174.	2.0	0
79	EFFECTS OF PARTICLE OVERLAPPING ON TRANSMISSION FLUCTUATION SPECTROMETRY WITH TEMPORAL CORRELATION. Chemical Engineering Communications, 2009, 197, 134-144.	2.6	0
80	High concentration effects of transmission fluctuation spectrometry with temporal correlation. Journal of Physics: Conference Series, 2009, 147, 012085.	0.4	0
81	Simultaneous measurement of bubble size and growth with phase critical angle scattering. Optics and Lasers in Engineering, 2021, 136, 106302.	3.8	0
82	Internal morphology-dependent resonances of a coated spherical particle. Applied Optics, 2021, 60, 6116.	1.8	0
83	Study of Drop Measurement Based on Gaussian Beam Scattering in the Primary Rainbow Region. Guangzi Xuebao/Acta Photonica Sinica, 2018, 47, 129003.	0.3	0
84	Möbius shifts associated with the third-order and the fourth-order rainbows of a spheroidal droplet computation. Applied Optics, 2022, 61, 826.	1.8	0