GÃ©rard gouesbet

List of Publications by Year
in descending order

184 papers	8,039 citations	53660 45 h-index	66788 78 g-index
187 all docs	187 docs citations	187 times ranked	1260 citing authors

#	Article	IF	Citations
1	Optical forces and optical force categorizations on small magnetodielectric particles in the framework of generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108046.	1.1	7
2	The generalized Lorenz-Mie theory and its identification with the dipole theory of forces for particles with electric and magnetic properties. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 281, 108104.	1.1	5
3	Hermiteâ€"Gaussian beams in the generalized Lorenzâ€"Mie theory through finiteâ€"series Laguerreâ€"Gaussian beam shape coefficients. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1027.	0.9	7
4	Interactions between arbitrary electromagnetic shaped beams and circular and elliptical infinite cylinders: A review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 286, 108181.	1.1	3
5	Angular spectrum representation of the Bessel-Gauss beam and its approximation: A comparison with the localized approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 284, 108167.	1.1	16
6	Towards photophoresis with the generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108266.	1.1	3
7	Comment on â€œUnified treatment of nonlinear optical force in laser trapping of dielectric particles of varying sizesâ€• Physical Review Research, 2022, 4, .	1.3	1
8	Axicon optical forces and other kinds of transverse optical forces exerted by off-axis Bessel beams in the Rayleigh regime in the framework of generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 258, 107356.	1.1	15
9	Optical forces exerted by on-axis Bessel beams on Rayleigh particles in the framework of generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107471.	1.1	8
10	On longitudinal radiation pressure cross-sections in the generalized Lorenzâ€"Mie theory and their numerical relationship with the dipole theory of forces. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 825.	0.9	13
11	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.	1.1	12
12	On transverse radiation pressure cross-sections in the generalized Lorenzâ€"Mie theory and their numerical relationship with the dipole theory of forces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 261, 107491.	1.1	10
13	On the Rayleigh limit of the generalized Lorenzâ€"Mie theory and its formal identification with the dipole theory of forces. I. The longitudinal case. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107531.	1.1	14
14	Rayleigh limit of generalized Lorenz-Mie theory for on-axis beams and its relationship with the dipole theory of forces. Part I: Non dark axisymmetric beams of the first kind, with the example of Gaussian beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 266, 107569.	1.1	12
15	On the Rayleigh limit of the generalized Lorenz-Mie theory and its formal identification with the dipole theory of forces. II. The transverse case.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 266, 107591.	1.1	10
16	Rayleigh limit of generalized Lorenz-Mie theory: Axicon terms revisited. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107691.	1.1	3
17	Poynting vector and beam shape coefficients: On new families of symmetries (non-dark axisymmetric) Tj ETQq1 1 0.784314 rgBT /Ove Radiative Transfer, 2021, 271, 107745.	1.1	5
18	Rayleigh limit of generalized Lorenz-Mie theory for on-axis beams and its relationship with the dipole theory of forces. Part II: Non-dark axisymmetric beams of the second kind and dark axisymmetric beams, including a review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 273, 107836.	1.1	7

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19	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.	1.1	16
20	On the beam shape coefficients of fundamental nondiffracting beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 241, 106750.	1.1	10
21	On an infinite number of quadratures to evaluate beam shape coefficients in generalized Lorenz-Mie theory and the extended boundary condition method for structured EM beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106779.	1.1	21
22	Finite series expressions to evaluate the beam shape coefficients of a Laguerre-Gauss beam focused by a lens in an on-axis configuration. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106759.	1.1	12
23	Axicon terms associated with gradient optical forces in generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 257, 107260.	1.1	8
24	Bessel-Gauss beams in the generalized Lorenz-Mie theory using three remodeling techniques. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107292.	1.1	23
25	Van de Hulst Essay: A review on generalized Lorenz-Mie theories with wow stories and an epistemological discussion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107117.	1.1	17
26	Gradient, scattering and other kinds of longitudinal optical forces exerted by off-axis Bessel beams in the Rayleigh regime in the framework of generalized Lorenz-Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106913.	1.1	19
27	Modified finite series technique for the evaluation of beam shape coefficients in the T-matrix methods for structured beams with application to Bessel beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 107007.	1.1	7
28	Evaluation of beam shape coefficients of paraxial Laguerreâ€"Gauss beam freely propagating by using three remodeling methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106618.	1.1	27
29	Afterword. Laser-light and interactions with particles (LIP), 2018. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 45-49.	1.1	2
30	Finite series expressions to evaluate the beam shape coefficients of a Laguerreâ€"Gauss beam freely propagating.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 12-19.	1.1	29
31	T-matrix methods for electromagnetic structured beams: A commented reference database for the period 2014â€"2018. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 247-281.	1.1	41
32	Generalized Lorenz--Mie theories and mechanical effects of laser light, on the occasion of Arthur Ashkinâ€™s receipt of the 2018 Nobel prize in physics for his pioneering work in optical levitation and manipulation: A review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 258-277.	1.1	41
33	Intrinsic method for the evaluation of beam shape coefficients in spheroidal coordinates for oblique illumination. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 312-318.	1.1	9
34	Zeroth-order continuous vector frozen waves for light scattering: exact multipole expansion in the generalized Lorenzâ€"Mie theory. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 81.	0.9	18
35	On the validity of the use of a localized approximation for helical beams. I. Formal aspects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 12-18.	1.1	31
36	On the validity of the use of a localized approximation for helical beams. II. Numerical aspects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 215, 41-50.	1.1	31

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37	On the validity of integral localized approximation for on-axis zeroth-order Mathieu beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 27-34.	1.1	42
38	Depolarization of nearly spherical particles: The Debye series approach. Physical Review A, 2018, 98, .	1.0	11
39	On localized approximations for Laguerre-Gauss beams focused by a lens. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 100-114.	1.1	34
40	Discrete vector frozen waves in generalized Lorenzâ€"Mie theory: linear, azimuthal, and radial polarizations. Applied Optics, 2018, 57, 3293.	0.9	28
41	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.	0.9	32
42	Generalized Lorenz-Mie Theories. , 2017, , .		40
43	A darkness theorem for the beam shape coefficients and its relationship to higher-order non-vortex Bessel beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 229-235.	1.1	31
44	Poynting theorem in terms of beam shape coefficients and applications to axisymmetric, dark and non-dark, vortex and non-vortex, beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 184-196.	1.1	31
45	On the validity of localized approximation for an on-axis zeroth-order Bessel beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 195, 18-25.	1.1	43
46	On the validity of the integral localized approximation for Bessel beams and associated radiation pressure forces. Applied Optics, 2017, 56, 5377.	2.1	35
47	Comments on localized and integral localized approximations in spherical coordinates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 179, 132-136.	1.1	53
48	On the validity of localized approximations for Bessel beams: All N-Bessel beams are identically equal to zero. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 176, 82-86.	1.1	42
49	Consequences of the angular spectrum decomposition of a focused beam, including slower than c beam propagation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 142-151.	1.1	20
50	Preface: Laser-light and Interactions with Particles (LIP), 2014. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 1-7.	1.1	11
51	On the description of electromagnetic arbitrary shaped beams: The relationship between beam shape coefficients and plane wave spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 18-30.	1.1	28
52	On the electromagnetic scattering of arbitrary shaped beams by arbitrary shaped particles: A review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 31-49.	1.1	48
53	Laser-based optical measurement techniques of discrete particles: A review [invited keynote]. International Journal of Multiphase Flow, 2015, 72, 288-297.	1.6	15
54	Controllable and enhanced photonic jet generated by fiber combined with spheroid. Optics Letters, 2014, 39, 1585.	1.7	11

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55	Photonic jet generated by spheroidal particle with Gaussian-beam illumination. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1476.	0.9	48
56	Latest achievements in generalized Lorenzâ€Mie theories: A commented reference database. Annalen Der Physik, 2014, 526, 461-489.	0.9	34
57	Intrinsic method for the evaluation of beam shape coefficients in spheroidal coordinates for on-axis standard configuration. Optics Communications, 2014, 310, 125-137.	1.0	12
58	Shaped beam scattering from a single lymphocyte cell by generalized Lorenzâ€"Mie theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 72-80.	1.1	10
59	A scientific story of generalized Lorenzâ€"Mie theories with epistemological remarks. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 126, 7-15.	1.1	16
60	Solution to the intrinsic method for the evaluation of beam shape coefficients in spheroidal coordinates. Optics Communications, 2013, 294, 29-35.	1.0	12
61	Lasers and interactions with particles, 2012: Optical particle characterization follow-up. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 126, 1-6.	1.1	14
62	List of problems for future research in generalized Lorenzâ€"Mie theories and related topics, review and prospectus [Invited]. Applied Optics, 2013, 52, 897.	0.9	54
63	Second modified localized approximation for use in generalized Lorenzâ€"Mie theory and other theories revisited. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 560.	0.8	35
64	Note on the use of localized beam models for light scattering theories in spherical coordinates. Applied Optics, 2012, 51, 3832.	0.9	35
65	On the structures of some light scattering theories depending on whether or not the Bromwich formulation may be used, e.g. spherical versus spheroidal coordinates. Optics Communications, 2012, 285, 4200-4206.	1.0	12
66	Generalized Lorenz-Mie Theories. , 2011, , .		157
67	Study of scattering from a sphere with an eccentrically located spherical inclusion by generalized Lorenzâ€"Mie theory: internal and external field distribution. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 24.	0.8	42
68	Morphology-dependent resonances in an eccentrically layered sphere illuminated by a tightly focused off-axis Gaussian beam: parallel and perpendicular beam incidence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1849.	0.8	33
69	Expanded description of electromagnetic arbitrary shaped beams in spheroidal coordinates, for use in light scattering theories: A review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2249-2267.	1.1	38
70	Transformations of spherical beam shape coefficients in generalized Lorenzâ€"Mie theories through rotations of coordinate systems. V. Localized beam models. Optics Communications, 2011, 284, 411-417.	1.0	26
71	Generalized Lorenzâ€"Mie theories and description of electromagnetic arbitrary shaped beams: Localized approximations and localized beam models, a review. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1-27.	1.1	161
72	Transformations of spherical beam shape coefficients in generalized Lorenzâ€"Mie theories through rotations of coordinate systems. Optics Communications, 2010, 283, 3235-3243.	1.0	43

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73	T-matrix formulation and generalized Lorenzâ€“Mie theories in spherical coordinates. Optics Communications, 2010, 283, 517-521.	1.0	132
74	Transformations of spherical beam shape coefficients in generalized Lorenzâ€“Mie theories through rotations of coordinate systems. Optics Communications, 2010, 283, 3226-3234.	1.0	33
75	Transformations of spherical beam shape coefficients in generalized Lorenzâ€“Mie theories through rotations of coordinate systems. Optics Communications, 2010, 283, 3218-3225.	1.0	39
76	Transformations of spherical beam shape coefficients in generalized Lorenzâ€“Mie theories through rotations of coordinate systems. IV. Plane waves. Optics Communications, 2010, 283, 3244-3254.	1.0	36
77	Debye series for light scattering by a nonspherical particle. Physical Review A, 2010, 81, .	1.0	28
78	On the optical theorem and non-plane-wave scattering in quantum mechanics. Journal of Mathematical Physics, 2009, 50, 112302.	0.5	28
79	Transient internal and scattered fields from a multi-layered sphere illuminated by a pulsed laser. Optics Communications, 2009, 282, 4189-4193.	1.0	16
80	Generalized Lorenzâ€“Mie theory and applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 800-807.	1.1	115
81	Generalized Lorenzâ€“Mie theories, the third decade: A perspective. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1223-1238.	1.1	99
82	Optical stress on the surface of a particle: Homogeneous sphere. Physical Review A, 2009, 79, .	1.0	23
83	Radiation torque exerted on a spheroid: Analytical solution. Physical Review A, 2008, 78, .	1.0	45
84	Electromagnetic scattering by an absorbing macroscopic sphere is cross-sectionally equivalent to a superposition of two effective quantum processes. Journal of Optics, 2007, 9, 369-375.	1.5	4
85	Generalized Lorenz-Mie theory for an arbitrarily oriented, located, and shaped beam scattered by a homogeneous spheroid. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 119.	0.8	69
86	Theoretical prediction of radiation pressure force exerted on a spheroid by an arbitrarily shaped beam. Physical Review E, 2007, 75, 026613.	0.8	67
87	Quantum arbitrary shaped beams revisited. Optics Communications, 2007, 273, 296-305.	1.0	15
88	Asymptotic quantum inelastic generalized Lorenzâ€“Mie theory. Optics Communications, 2007, 278, 215-220.	1.0	9
89	Resonant spectra of a deformed spherical microcavity. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1390.	0.9	16
90	Rainbow refractrometry: On the validity domain of Airyâ€™s and Nussenzveigâ€™s theories. Optics Communications, 2006, 259, 7-13.	1.0	47

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91	Asymptotic quantum elastic generalized Lorenzâ€“Mie theory. Optics Communications, 2006, 266, 704-709.	1.0	7
92	A transparent macroscopic sphere is cross-sectionally equivalent to a superposition of two quantum-like radial potentials. Optics Communications, 2006, 266, 710-715.	1.0	7
93	Expansions in Free Space of Arbitrary Quantum Wavepackets, Quantum Laser Beams, and Gaussian Quantum (On-axis and Off-axis) Laser Beams in Terms of Free Spherical Waves. Particle and Particle Systems Characterization, 2005, 22, 38-44.	1.2	6
94	Generalized Lorenzâ€“Mie theory for infinitely long cylinders with elliptical cross sections: erratum. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 574.	0.8	11
95	Cross-sections in Lorenzâ€“Mie theory and quantum scattering: formal analogies. Optics Communications, 2004, 231, 9-15.	1.0	10
96	Far scattered field from a spheroid under a femtosecond pulsed illumination in a generalized Lorenzâ€“Mie theory framework. Optics Communications, 2004, 231, 71-77.	1.0	30
97	Debye Series Formulation for Generalized Lorenz-Mie Theory with the Bromwich Method. Particle and Particle Systems Characterization, 2003, 20, 382-386.	1.2	33
98	Generalized Lorenz-Mie Theory for a Spheroidal Particle with Off-Axis Gaussian-Beam Illumination. Applied Optics, 2003, 42, 6621.	2.1	62
99	Numerical predictions of microcavity internal fields created by femtosecond pulses, with emphasis on whispering gallery modes. Journal of Optics, 2002, 4, S150-S153.	1.5	7
100	Morphology-dependent resonances and/or whispering gallery modes for a two-dimensional dielectric cavity with an eccentrically located circular inclusion, a Hamiltonian point of view with Hamiltonian (optical) chaos. Optics Communications, 2002, 201, 223-242.	1.0	13
101	Two-photon absorption and fluorescence in a spherical micro-cavity illuminated by using two laser pulses: numerical simulations. Optics Communications, 2002, 208, 371-375.	1.0	17
102	Scattering of light by spheroids: the far field case. Optics Communications, 2002, 210, 1-9.	1.0	39
103	ÄŒerenkov-based radiation from superluminal excitation in microdroplets by ultrashort pulses. Optics Letters, 2001, 26, 1621.	1.7	10
104	Scattering of laser pulses (plane wave and focused Gaussian beam) by spheres. Applied Optics, 2001, 40, 2546.	2.1	33
105	Time-resolved scattering diagrams for a sphere illuminated by plane wave and focused short pulses. Optics Communications, 2001, 194, 59-65.	1.0	39
106	Interaction between femtosecond pulses and a spherical microcavity: internal fields. Optics Communications, 2001, 199, 33-38.	1.0	25
107	Periodic orbits in Hamiltonian chaos of the annular billiard. Physical Review E, 2001, 65, 016212.	0.8	18
108	Instabilities By Local Heating Below an Interface. Journal of Non-Equilibrium Thermodynamics, 2001, 25, 337-379.	2.4	16

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109	Generic Formulation of a Generalized Lorenz-Mie Theory for a Particle Illuminated by Laser Pulses. Particle and Particle Systems Characterization, 2000, 17, 213-224.	1.2	29
110	Particle imaging sizing: GLMT simulations. Journal of Visualization, 2000, 3, 195-202.	1.1	14
111	Localized approximation for Gaussian beams in elliptical cylinder coordinates. Applied Optics, 2000, 39, 1008.	2.1	11
112	Generalized Lorenz-Mie theory for a sphere with an eccentrically located spherical inclusion. Journal of Modern Optics, 2000, 47, 821-837.	0.6	70
113	GENERALIZED LORENZ-MIE THEORIES, FROM PAST TO FUTURE. Atomization and Sprays, 2000, 10, 277-333.	0.3	95
114	Partial-wave expansions of higher-order Gaussian beams in elliptical cylindrical coordinates. Journal of Optics, 1999, 1, 121-132.	1.5	10
115	Description of arbitrary shaped beams in elliptical cylinder coordinates, by using a plane wave spectrum approach. Optics Communications, 1999, 161, 63-78.	1.0	19
116	The Structure of Generalized Lorenz-Mie Theory for Elliptical Infinite Cylinders. Particle and Particle Systems Characterization, 1999, 16, 3-10.	1.2	12
117	Theory of Distributions and its Application to Beam Parametrization in Light Scattering. Particle and Particle Systems Characterization, 1999, 16, 147-159.	1.2	10
118	Validity of the cylindrical localized approximation for arbitrary shaped beams in generalized Lorenz-Mie theory for circular cylinders. Journal of Modern Optics, 1999, 46, 1185-1200.	0.6	18
119	Generalized Lorenz-Mie theory for assemblies of spheres and aggregates. Journal of Optics, 1999, 1, 706-712.	1.5	105
120	Generalized Lorenzâ€"Mie theory for infinitely long elliptical cylinders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1333.	0.8	35
121	Validity of the localized approximation for arbitrary shaped beams in the generalized Lorenzâ€"Mie theory for spheres. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1641.	0.8	117
122	Validity of the elliptical cylinder localized approximation for arbitrary shaped beams in generalized Lorenzâ€"Mie theory for elliptical cylinders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2946.	0.8	17
123	Scattering of a Gaussian beam by an infinite cylinder with arbitrary location and arbitrary orientation: numerical results. Applied Optics, 1999, 38, 1867.	2.1	63
124	Cylindrical localized approximation to speed up computations for Gaussian beams in the generalized Lorenzâ€"Mie theory for cylinders, with arbitrary location and orientation of the scatterer. Applied Optics, 1999, 38, 2647.	2.1	14
125	Forces and torques exerted on a multilayered spherical particle by a focused Gaussian beam. Optics Communications, 1998, 155, 169-179.	1.0	70
126	Improved standard beams with application to reverse radiation pressure. Applied Optics, 1998, 37, 2435.	2.1	26

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127	Integral localized approximation in generalized Lorenzâ€“Mie theory. Applied Optics, 1998, 37, 4218.	2.1	137
128	Characterization of initial disturbances in a liquid jet by rainbow sizing. Applied Optics, 1998, 37, 8498.	2.1	32
129	Rigorous justification of the cylindrical localized approximation to speed up computations in the generalized Lorenzâ€“Mie theory for cylinders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 511.	0.8	23
130	Partial-wave description of shaped beams in elliptical-cylinder coordinates. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 3028.	0.8	17
131	Scattering of higher-order Gaussian beams by an infinite cylinder. Journal of Optics, 1997, 28, 45-65.	0.3	18
132	Interaction between an infinite cylinder and an arbitrary-shaped beam. Applied Optics, 1997, 36, 4292.	2.1	47
133	Improved algorithm for electromagnetic scattering of plane waves and shaped beams by multilayered spheres. Applied Optics, 1997, 36, 5188.	2.1	148
134	Scattering of a Gaussian beam by an infinite cylinder in the framework of generalized Lorenzâ€“Mie theory: formulation and numerical results. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 3014.	0.8	84
135	Discussion of two quadrature methods of evaluating beam-shape coefficients in generalized Lorenzâ€“Mie theory. Applied Optics, 1996, 35, 1537.	2.1	103
136	Partial-wave expansions and properties of axisymmetric light beams. Applied Optics, 1996, 35, 1543.	2.1	70
137	Prediction of reverse radiation pressure by generalized Lorenzâ€“Mie theory. Applied Optics, 1996, 35, 2702.	2.1	132
138	Measurement of cylindrical particles with phase Doppler anemometry. Applied Optics, 1996, 35, 5180.	2.1	27
139	Exact description of arbitrary-shaped beams for use in light-scattering theories. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 2434.	0.8	25
140	Generalized optical theorem for on-axis Gaussian beams. Optics Communications, 1996, 125, 137-157.	1.0	24
141	On the Optical Diagnosis and Sizing of Spherical Coated and Multilayered Particles with phase-Doppler anemometry. Particle and Particle Systems Characterization, 1996, 13, 104-111.	1.2	25
142	Phase-Doppler Anemometry with the Dual Burst Technique for measurement of refractive index and absorption coefficient simultaneously with size and velocity. Particle and Particle Systems Characterization, 1996, 13, 112-124.	1.2	48
143	On the measurements of particles by imaging methods: Theoretical and Experimental Aspects. Particle and Particle Systems Characterization, 1996, 13, 156-164.	1.2	22
144	The separability â€˜â€˜theoremâ€™â€™ in terms of distributions with discussion of electromagnetic scattering theory. Journal of Mathematical Physics, 1996, 37, 4705-4710.	0.5	21

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145	Higher-order descriptions of Gaussian beams. Journal of Optics, 1996, 27, 35-50.	0.3	30
146	Scattering of a First-Order Gaussian Beam by an infinite cylinder with arbitrary location and arbitrary orientation. Particle and Particle Systems Characterization, 1995, 12, 242-256.	1.2	22
147	Trapping and levitation of a dielectric sphere with off-centred Gaussian beams. II. GLMT analysis. Journal of Optics, 1995, 4, 571-585.	0.5	33
148	The separability theorem revisited with applications to light scattering theory. Journal of Optics, 1995, 26, 123-135.	0.3	15
149	Interaction between Gaussian beams and infinite cylinders, by using the theory of distributions. Journal of Optics, 1995, 26, 225-239.	0.3	49
150	Failure of the optical theorem for Gaussian-beam scattering by a spherical particle. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 2708.	0.8	42
151	Partial-wave representations of laser beams for use in light-scattering calculations. Applied Optics, 1995, 34, 2133.	2.1	101
152	Electromagnetic scattering from a multilayered sphere located in an arbitrary beam. Applied Optics, 1995, 34, 7113.	2.1	146
153	Electromagnetic field expression of a laser sheet and the order of approximation. Journal of Optics, 1994, 25, 165-176.	0.3	26
154	Generalized lorenz-mie theory and applications. Particle and Particle Systems Characterization, 1994, 11, 22-34.	1.2	70
155	Interaction Between Shaped Beams and an Infinite Cylinder, including a discussion of Gaussian beams. Particle and Particle Systems Characterization, 1994, 11, 299-308.	1.2	35
156	Radiation pressure forces exerted on a particle arbitrarily located in a Gaussian beam by using the generalized Lorenz-Mie theory, and associated resonance effects. Optics Communications, 1994, 108, 343-354.	1.0	138
157	Symmetry relations in generalized Lorenzâ€"Mie theory. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 1812.	0.8	23
158	Evaluation of laser-sheet beam shape coefficients in generalized Lorenzâ€"Mie theory by use of a localized approximation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2072.	0.8	48
159	Rigorous justification of the localized approximation to the beam-shape coefficients in generalized Lorenzâ€"Mie theory I On-axis beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2503.	0.8	200
160	Rigorous justification of the localized approximation to the beam-shape coefficients in generalized Lorenzâ€"Mie theory II Off-axis beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2516.	0.8	172
161	Interaction between a Gaussian beam and an infinite cylinder with the use of non-â˜-separable potentials. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 3261.	0.8	22
162	Laser Sheet Scattering by Spherical Particles. Particle and Particle Systems Characterization, 1993, 10, 146-151.	1.2	33

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163	Particle Trajectory Effects in Phase Doppler Systems: Computations and experiments. Particle and Particle Systems Characterization, 1993, 10, 332-338.	1.2	48
164	Optical levitation experiments to assess the validity of the generalized Lorenzâ€“Mie theory. Applied Optics, 1992, 31, 2942.	2.1	26
165	Localized Approximation of Generalized Lorenz-Mie Theory: Faster algorithm for computations of beam shape coefficients, gâ€‰nm. Particle and Particle Systems Characterization, 1992, 9, 144-150.	1.2	41
166	Optical Levitation Experiments for generalized lorenz-mie theory validation. Particle and Particle Systems Characterization, 1990, 7, 248-249.	1.2	13
167	Localized interpretation to compute all the coefficients gnm in the generalized Lorenzâ€“Mie theory. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 998.	0.8	163
168	On the generalized Lorenz-Mie theory: first attempt to design a localized approximation to the computation of the coefficients gnm. Journal of Optics, 1989, 20, 31-43.	0.3	46
169	Ray localization in gaussian beams. Optics Communications, 1989, 70, 259-262.	1.0	36
170	Scattering of a Gaussian Beam by a Sphere Using a Bromwich Formulation: Case of an arbitrary location. Particle and Particle Systems Characterization, 1988, 5, 1-8.	1.2	16
171	Interaction between a Sphere and a Gaussian Beam: Computations on a micro-computer. Particle and Particle Systems Characterization, 1988, 5, 103-108.	1.2	23
172	Light scattering from a sphere arbitrarily located in a Gaussian beam, using a Bromwich formulation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1988, 5, 1427.	0.8	552
173	Computations of the gn coefficients in the generalized Lorenz-Mie theory using three different methods. Applied Optics, 1988, 27, 4874.	2.1	147
174	A concise presentation of the generalized Lorenz-Mie theory for arbitrary location of the scatterer in an arbitrary incident profile. Journal of Optics, 1988, 19, 59-67.	0.3	146
175	Expressions to compute the coefficients gmnin the generalized Lorenz-Mie theory using finite series. Journal of Optics, 1988, 19, 35-48.	0.3	94
176	Generalized Lorenz-Mie theory: first exact values and comparisons with the localized approximation. Applied Optics, 1987, 26, 23.	2.1	70
177	Laser Beam Scattering by Individual Spherical Particles: Numerical results and application to optical sizing. Particle and Particle Systems Characterization, 1987, 4, 141-146.	1.2	21
178	Scattering of laser beams by Mie scatter centers: numerical results using a localized approximation. Applied Optics, 1986, 25, 3539.	2.1	131
179	A review on measurements of particle velocities and diameters by laser techniques, with emphasis on thermal plasmas. Plasma Chemistry and Plasma Processing, 1985, 5, 91-117.	1.1	30
180	On the scattering of light by a Mie scatter center located on the axis of an axisymmetric light profile. Journal of Optics, 1982, 13, 97-103.	0.3	175

#	Article	IF	Citations
181	Comparisons between geometrical optics and Lorenz-Mie theory. Applied Optics, 1981, 20, 2911.	2.1	110
182	Optical levitation of a single particle to study the theory of the quasi-elastic scattering of light. Applied Optics, 1980, 19, 2485.	2.1	38
183	Mie theory calculations: new progress, with emphasis on particle sizing. Applied Optics, 1979, 18, 3489.	2.1	89
184	Comparative numerical analysis between the multipole expansion of optical force up to quadrupole terms and the generalized Lorenz-Mie theory. Journal of the Optical Society of America B: Optical Physics, 0, , .	0.9	1