Halina Rubinsztein-Dunlop

List of Publications by Year
in descending order

321 papers	14,116 citations	29994 54 h-index	24179 110 g-index
329 all docs	329 docs citations	329 times ranked	9126 citing authors

#	Article	IF	Citations
1	Direct Observation of Transfer of Angular Momentum to Absorptive Particles from a Laser Beam with a Phase Singularity. Physical Review Letters, 1995, 75, 826-829.	2.9	1,527
2	Optical alignment and spinning of laser-trapped microscopic particles. Nature, 1998, 394, 348-350.	13.7	977
3	Roadmap on structured light. Journal of Optics (United Kingdom), 2017, 19, 013001.	1.0	888
4	Optical angular-momentum transfer to trapped absorbing particles. Physical Review A, 1996, 54, 1593-1596.	1.0	432
5	Colloquium: Momentum of an electromagnetic wave in dielectric media. Reviews of Modern Physics, 2007, 79, 1197-1216.	16.4	360
6	Laser beams with phase singularities. Optical and Quantum Electronics, 1992, 24, S951-S962.	1.5	339
7	Optical Particle Trapping with Higher-order Doughnut Beams Produced Using High Efficiency Computer Generated Holograms. Journal of Modern Optics, 1995, 42, 217-223.	0.6	337
8	Optical tweezers computational toolbox. Journal of Optics, 2007, 9, S196-S203.	1.5	317
9	Dynamical tunnelling of ultracold atoms. Nature, 2001, 412, 52-55.	13.7	316
10	Optical Microrheology Using Rotating Laser-Trapped Particles. Physical Review Letters, 2004, 92, 198104.	2.9	282
11	Cavity Optomechanical Magnetometer. Physical Review Letters, 2012, 108, 120801.	2.9	218
12	Laser Trapping of Colloidal Metal Nanoparticles. ACS Nano, 2015, 9, 3453-3469.	7.3	193
13	Optically driven micromachine elements. Applied Physics Letters, 2001, 78, 547-549.	1.5	190
14	Forces in optical tweezers with radially and azimuthally polarized trapping beams. Optics Letters, 2008, 33, 122.	1.7	160
15	Optical application and measurement of torque on microparticles of isotropic nonabsorbing material. Physical Review A, 2003, 68, .	1.0	152
16	Lead sulfide nanocrystal: conducting polymer solar cells. Journal Physics D: Applied Physics, 2005, 38, 2006-2012.	1.3	147
17	Orientation of biological cells using plane-polarized gaussian beam optical tweezers. Journal of Modern Optics, 2003, 50, 1581-1590.	0.6	143
18	Time-resolved photoluminescence spectroscopy of ligand-capped PbS nanocrystals. Nanotechnology, 2005, 16, 175-179.	1.3	142

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19	Direct imaging of a digital-micromirror device for configurable microscopic optical potentials. Optica, 2016, 3, 1136.	4.8	136
20	Angular momentum of a strongly focused Gaussian beam. Journal of Optics, 2008, 10, 115005.	1.5	134
21	Giant vortex clusters in a two-dimensional quantum fluid. Science, 2019, 364, 1264-1267.	6.0	133
22	Excitonâ^'Trion Transitions in Single CdSeâ€"CdS Coreâ€"Shell Nanocrystals. ACS Nano, 2009, 3, 2281-2287.	7.3	131
23	Optical torque controlled by elliptical polarization. Optics Letters, 1998, 23, 1.	1.7	125
24	A photon-driven micromotor can direct nerve fibre growth. Nature Photonics, 2012, 6, 62-67.	15.6	118
25	Surface Morphology Dependent Photoluminescence from Colloidal Silicon Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 19064-19067.	1.2	101
26	Optical measurement of microscopic torques. Journal of Modern Optics, 2001, 48, 405-413.	0.6	99
27	Multipole expansion of strongly focussed laser beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1005-1017.	1.1	92
28	Optical trapping in vivo: theory, practice, and applications. Nanophotonics, 2019, 8, 1023-1040.	2.9	91
29	Optically Written Waveguide in an Atomic Vapor. Physical Review Letters, 1999, 82, 1438-1441.	2.9	90
30	Ultrasensitive Optomechanical Magnetometry. Advanced Materials, 2014, 26, 6348-6353.	11.1	88
31	Interferometric Measurements of Phase Singularities in the Output of a Visible Laser. Journal of Modern Optics, 1991, 38, 2531-2541.	0.6	87
32	Calculation and optical measurement of laser trapping forces on non-spherical particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 70, 627-637.	1.1	87
33	Roadmap on Atomtronics: State of the art and perspective. AVS Quantum Science, 2021, 3, .	1.8	87
34	Numerical modelling of optical trapping. Computer Physics Communications, 2001, 142, 468-471.	3.0	85
35	Mesostructured Dye-Doped Titanium Dioxide for Micro-Optoelectronic Applications. ChemPhysChem, 2003, 4, 595-603.	1.0	85
36	The effect of Mie resonances on trapping in optical tweezers. Optics Express, 2008, 16, 15039.	1.7	85

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37	Cellular-Resolution Imaging of Vestibular Processing across the Larval Zebrafish Brain. Current Biology, 2018, 28, 3711-3722.e3.	1.8	85
38	Calculation of the T-matrix: general considerations and application of the point-matching method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1019-1029.	1.1	84
39	Optical tweezers: Theory and modelling. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 59-80.	1.1	83
40	Optical trapping of otoliths drives vestibular behaviours in larval zebrafish. Nature Communications, 2017, 8, 630.	5.8	82
41	Determination of the force constant of a single-beam gradient trap by measurement of backscattered light. Applied Optics, 1996, 35, 7112.	2.1	74
42	Integrated optomechanical microelements. Optics Express, 2007, 15, 5521.	1.7	74
43	Highly birefringent vaterite microspheres: production, characterization and applications for optical micromanipulation. Optics Express, 2009, 17, 21944.	1.7	74
44	T-matrix method for modelling optical tweezers. Journal of Modern Optics, 2011, 58, 528-544.	0.6	74
45	Absorption and fluorescence spectroscopy of rhodamine 6G in titanium dioxide nanocomposites. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 245-249.	2.0	73
46	Enhanced optical trapping via structured scattering. Nature Photonics, 2015, 9, 669-673.	15.6	73
47	Highly efficient luminescence from a hybrid state found in strongly quantum confined PbS nanocrystals. Nanotechnology, 2006, 17, 956-962.	1.3	71
48	Acoustic Phonon Contributions to the Emission Spectrum of Single CdSe Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 1878-1884.	1.5	71
49	Physics of Optical Tweezers. Methods in Cell Biology, 2007, 82, 207-236.	0.5	69
50	Boseâ€“Einstein condensation in large time-averaged optical ring potentials. New Journal of Physics, 2016, 18, 035003.	1.2	67
51	-matrix calculation via discrete dipole approximation, point matching and exploiting symmetry. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1460-1471.	1.1	64
52	Optical Trapping of Absorbing Particles. Advances in Quantum Chemistry, 1998, 30, 469-492.	0.4	62
53	Energy Transfer Dynamics of Nanocrystalâ^'Polymer Composites. Journal of Physical Chemistry B, 2005, 109, 9001-9005.	1.2	58
54	Picoliter viscometry using optically rotated particles. Physical Review E, 2007, 76, 041507.	0.8	58

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55	Versatile two-dimensional potentials for ultra-cold atoms. Optics Express, 2008, 16, 1405.	1.7	55
56	Inorganic surface passivation of PbS nanocrystals resulting in strong photoluminescent emission. Nanotechnology, 2003, 14, 991-997.	1.3	54
57	A new approach to the synthesis of conjugated polymerâ€“nanocrystal composites for heterojunction optoelectronics. Chemical Communications, 2004, , 2334-2335.	2.2	53
58	Synthesis and Surface Modification of Birefringent Vaterite Microspheres. Langmuir, 2009, 25, 11672-11679.	1.6	53
59	Optical angular momentum transfer to microrotors fabricated by two-photon photopolymerization. New Journal of Physics, 2009, 11, 093021.	1.2	52
60	Detection of Bright Trion States Using the Fine Structure Emission of Single CdSe/ZnS Colloidal Quantum Dots. ACS Nano, 2009, 3, 3762-3768.	7.3	50
61	Three-dimensional imaging with optical tweezers. Applied Optics, 1999, 38, 6597.	2.1	49
62	Dimer-to-Monomer Transformation of Rhodamine 6G in Aqueous PEOâ^'PPOâ^'PEO Block Copolymer Solutions. Macromolecules, 2002, 35, 2063-2070.	2.2	49
63	Measurement of the total optical angular momentum transfer in optical tweezers. Optics Express, 2006, 14, 6963.	1.7	49
64	Measurement of the Index of Refraction of Single Microparticles. Physical Review Letters, 2006, 97, 157402.	2.9	48
65	Observation of shock waves in a large Bose-Einstein condensate. Physical Review A, 2009, 80, .	1.0	48
66	A method for achieving super-resolved widefield CARS microscopy. Optics Express, 2010, 18, 19263.	1.7	48
67	Improved theory of laserâ€enhanced ionization in flames: Comparison with experiment. Journal of Applied Physics, 1984, 55, 3215-3225.	1.1	46
68	Orientation of optically trapped nonspherical birefringent particles. Physical Review E, 2006, 73, 021911.	0.8	46
69	Symmetry and the generation and measurement of optical torque. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1472-1482.	1.1	46
70	Characterization of optically driven fluid stress fields with optical tweezers. Physical Review E, 2005, 72, 031507.	0.8	45
71	Carrier transport in PbS nanocrystal conducting polymer composites. Applied Physics Letters, 2005, 87, 253109.	1.5	45
72	Equilibrium orientations and positions of non-spherical particles in optical traps. Optics Express, 2012, 20, 12987.	1.7	45

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73	Laser-enhanced ionization spectrometry in flamesâ€“a powerful and versatile technique for ultra-sensitive trace element analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1989, 44, 835-866.	1.5	44
74	Trace element determination in flames by laser enhanced ionization spectrometry. Analytical Chemistry, 1985, 57, 773-776.	3.2	43
75	Measurement of the Optical Force and Trapping Range of a Single-beam Gradient Optical Trap for Micron-sized Latex Spheres. Journal of Modern Optics, 1994, 41, 595-601.	0.6	43
76	Picoliter Rheology of Gaseous Media Using a Rotating Optically Trapped Birefringent Microparticle. Analytical Chemistry, 2011, 83, 8855-8858.	3.2	43
77	Theory and practice of simulation of optical tweezers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 195, 66-75.	1.1	43
78	Laser cooling of a solid from ambient temperature. Journal of Modern Optics, 2001, 48, 103-114.	0.6	42
79	Spatially-resolved rotational microrheology with an optically-trapped sphere. Scientific Reports, 2013, 3, .	1.6	40
80	A PbS quantum-cube: conducting polymer composite for photovoltaic applications. Current Applied Physics, 2004, 4, 320-322.	1.1	37
81	Linewidth reduction in a large-smile laser diode array. Applied Optics, 2005, 44, 6264.	2.1	37
82	A quantum optomechanical interface beyond the resolved sideband limit. New Journal of Physics, 2016, 18, 053030.	1.2	36
83	Optomechanical Magnetometry with a Macroscopic Resonator. Physical Review Applied, 2016, 5, .	1.5	36
84	Condensed-phase optical refrigeration. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1037.	0.9	35
85	Origin of the Large Homogeneous Line Widths Obtained from Strongly Quantum Confined PbS Nanocrystals at Room Temperature. Journal of Physical Chemistry C, 2007, 111, 4984-4989.	1.5	35
86	Anomalous Power Laws of Spectral Diffusion in Quantum Dots: A Connection to Luminescence Intermittency. Physical Review Letters, 2010, 105, 167402.	2.9	34
87	Optically trapped and driven paddle-wheel. New Journal of Physics, 2013, 15, 063016.	1.2	34
88	Experimental tests of quantum nonlinear dynamics in atom optics. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, R83-R120.	1.4	33
89	Optical Torque on Microscopic Objects. Methods in Cell Biology, 2007, 82, 525-561.	0.5	33
90	FDFD/T-matrix hybrid method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 274-284.	1.1	33

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91	Antireflection coating for improved optical trapping. Journal of Applied Physics, 2008, 103, 093119.	1.1	33
92	Brownian fluctuations of an optically rotated nanorod. Optica, 2017, 4, 746.	4.8	33
93	Collecting single molecules with conventional optical tweezers. Physical Review E, 2007, 75, 011916.	0.8	32
94	Coherent super-resolution microscopy via laterally structured illumination. Micron, 2007, 38, 150-157.	1.1	32
95	Coherent control and feedback cooling in a remotely coupled hybrid atomâ€“optomechanical system. New Journal of Physics, 2014, 16, 083036.	1.2	32
96	Simultaneous rotation, orientation and displacement control of birefringent microparticles in holographic optical tweezers. Optics Express, 2013, 21, 102.	1.7	31
97	Micromanipulation of chloroplasts using optical tweezers. Journal of Microscopy, 2001, 203, 214-222.	0.8	30
98	Constant power optical tweezers with controllable torque. Optics Letters, 2009, 34, 139.	1.7	30
99	Hypothalamic Projections to the Optic Tectum in Larval Zebrafish. Frontiers in Neuroanatomy, 2017, 11, 135.	0.9	30
100	Laser-Enhanced Ionization Detection of Trace Elements in a Graphite Furnace. Applied Spectroscopy, 1986, 40, 968-971.	1.2	29
101	Computational modeling of optical tweezers. , 2004, , .		29
102	Scattering of Sculpted Light in Intact Brain Tissue, with implications for Optogenetics. Scientific Reports, 2015, 5, 11501.	1.6	29
103	Mapping Organelle Motion Reveals a Vesicular Conveyor Belt Spatially Replenishing Secretory Vesicles in Stimulated Chromaffin Cells. PLoS ONE, 2014, 9, e87242.	1.1	29
104	Phase-Transition-like Properties of Double-Beam Optical Tweezers. Physical Review Letters, 2011, 107, 248101.	2.9	28
105	Sensitivity and performance of cavity optomechanical field sensors. Photonic Sensors, 2012, 2, 259-270.	2.5	28
106	Controlled transfer of transverse orbital angular momentum to optically trapped birefringent microparticles. Nature Photonics, 2022, 16, 346-351.	15.6	28
107	Elimination of Spectral Interference Using Two-Step Excitation Laser Enhanced Ionization. Physica Scripta, 1986, 33, 429-433.	1.2	27
108	Growth dynamics of a Bose-Einstein condensate in a dimple trap without cooling. Physical Review A, 2011, 83, .	1.0	27

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109	Light guiding light:â€ƒNonlinear refraction in rubidium vapor. Physical Review A, 2001, 63, .	1.0	26
110	Optical measurement of torque exerted on an elongated object by a noncircular laser beam. Physical Review A, 2004, 70, .	1.0	26
111	Improving single-photon sources with Stark tuning. Physical Review A, 2007, 75, .	1.0	26
112	Velocity measurements by flow tagging employing laser enhanced ionisation and laser induced fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1995, 50, 1301-1310.	1.5	24
113	Simultaneous two-wavelength holographic interferometry in a superorbital expansion tube facility. Applied Optics, 1997, 36, 8128.	2.1	24
114	Manipulation and growth of birefringent protein crystals in optical tweezers. Optics Express, 2004, 12, 6440.	1.7	24
115	Unconventional photoluminescence upconversion from PbS quantum dots. Applied Physics Letters, 2007, 91, .	1.5	24
116	Charge hopping revealed by jitter correlations in the photoluminescence spectra of single CdSe nanocrystals. Physical Review B, 2010, 81, .	1.1	24
117	Calibration of force detection for arbitrarily shaped particles in optical tweezers. Scientific Reports, 2018, 8, 10798.	1.6	24
118	Supersonic velocimetry in a shock tube using laser enhanced ionisation and planar laser induced fluorescence. Applied Physics B: Lasers and Optics, 1997, 64, 369-376.	1.1	22
119	Optical torque and symmetry. , 2004, , .		22
120	Mechanics of Cellular Adhesion to Artificial Artery Templates. Biophysical Journal, 2006, 91, 3085-3096.	0.2	22
121	Orientation of swimming cells with annular beam optical tweezers. Optics Communications, 2020, 459, 124864.	1.0	22
122	Simultaneous measurements of laser-induced fluorescence (LIF dip) and laser-enhanced ionization (LEI) Tj ETQq0 0 0 rgBT /Overlock 10 T Spectroscopy, 1989, 44, 693-712.	1.5	21
123	Analysis of dynamical tunneling experiments with a Bose-Einstein condensate. Physical Review A, 2004, 70, .	1.0	21
124	Measurement of viscosity of lyotropic liquid crystals by means of rotating laser-trapped microparticles. Optics Express, 2011, 19, 25134.	1.7	21
125	Three-dimensional complex-shaped photopolymerized microparticles at liquid crystal interfaces. Soft Matter, 2012, 8, 2432.	1.2	21
126	Ultrasensitive rotating photonic probes for complex biological systems. Optica, 2017, 4, 1103.	4.8	21

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127	Fabrication of microstructures for optically driven micromachines using two-photon photopolymerization of UV curing resins. Journal of Optics, 2009, 11, 034001.	1.5	21
128	Swimming force and behavior of optically trapped micro-organisms. Optica, 2020, 7, 989.	4.8	21
129	Ultrabroadband and sensitive cavity optomechanical magnetometry. Photonics Research, 2020, 8, 1064.	3.4	21
130	Experimental study of the quantum driven pendulum and its classical analog in atom optics. Physical Review A, 2001, 64, .	1.0	20
131	Laser frequency locking by direct measurement of detuning. Optics Letters, 2004, 29, 2704.	1.7	20
132	Growing semiconductor nanocrystals directly in a conducting polymer. Materials Letters, 2005, 59, 3033-3036.	1.3	20
133	Quantitative Acoustic Models for Superfluid Circuits. Physical Review Letters, 2019, 123, 260402.	2.9	20
134	Optical Tweezers Exploring Neuroscience. Frontiers in Bioengineering and Biotechnology, 2020, 8, 602797.	2.0	20
135	Detection of traces in semiconductor materials by two-color laser-enhanced ionization spectroscopy in flames. Applied Optics, 1987, 26, 3521.	2.1	19
136	Trace element analysis by two-colour laser enhanced ionization spectroscopy in a graphite furnace. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1987, 42, 713-718.	1.5	19
137	Velocimetry and Thermometry of Supersonic Flow Around a Cylindrical Body. AIAA Journal, 1998, 36, 1055-1060.	1.5	19
138	Calibration of nonspherical particles in optical tweezers using only position measurement. Optics Letters, 2013, 38, 1244.	1.7	19
139	Determination of motility forces on isolated chromosomes with laser tweezers. Scientific Reports, 2014, 4, 6866.	1.6	19
140	Invited Article: Scalable high-sensitivity optomechanical magnetometers on a chip. APL Photonics, 2018, 3, 120806.	3.0	19
141	Detection of trace amounts of Cr by two laser-based spectroscopic techniques: laser-enhanced ionization in flames and laser-induced fluorescence in graphite furnace. Applied Optics, 1993, 32, 867.	2.1	18
142	Optical sorting and cultivation of denitrifying anaerobic methane oxidation archaea. Biomedical Optics Express, 2017, 8, 934.	1.5	18
143	Ionic strontium fluorescence as a method for flow tagging velocimetry. Experiments in Fluids, 2001, 30, 36-42.	1.1	17
144	Polarized photoluminescence from surface-passivated lead sulfide nanocrystals. Nanotechnology, 2004, 15, 16-22.	1.3	17

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145	Foil-based atom chip for Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 2959-2967.	0.6	17
146	Constraining validity of the Minkowski energy-momentum tensor. Physical Review A, 2009, 79, .	1.0	17
147	An interpretation and guide to single-pass beam shaping methods using SLMs and DMDs. Journal of Optics (United Kingdom), 2016, 18, 065609.	1.0	17
148	Sound generation in zebrafish with Bio-Opto-Acoustics. Nature Communications, 2020, 11, 6120.	5.8	17
149	Machine learning reveals complex behaviours in optically trapped particles. Machine Learning: Science and Technology, 2020, 1, 045009.	2.4	17
150	Atomic-beam measurements on refractory elements. Nuclear Instruments & Methods, 1974, 119, 269-274.	1.2	16
151	Comparison of Experimental and Numerical Studies of Ionizing Flow over a Cylinder. AIAA Journal, 2003, 41, 2157-2161.	1.5	16
152	Evidence for energy relaxation via a radiative cascade in surface-passivated PbS quantum dots. Nanotechnology, 2004, 15, 1328-1337.	1.3	16
153	Non-linear photoluminescence from purified aqueous PbS nanocrystals. Materials Letters, 2006, 60, 3332-3334.	1.3	16
154	Timeâ€Resolved and Steadyâ€State Fluorescence Spectroscopy of Eumelanin and Indolic Polymers. Photochemistry and Photobiology, 2007, 83, 1449-1454.	1.3	15
155	Effect of Dimerization on Vibrational Spectra of Eumelanin Precursors^{â€}. Photochemistry and Photobiology, 2008, 84, 613-619.	1.3	15
156	Kinect the dots: 3D control of optical tweezers. Journal of Optics (United Kingdom), 2013, 15, 075303.	1.0	15
157	Forces due to pulsed beams in optical tweezers: linear effects. Optics Express, 2015, 23, 7190.	1.7	15
158	A quantum heat machine from fast optomechanics. New Journal of Physics, 2020, 22, 103028.	1.2	15
159	Light-Driven Micromachines. Optics and Photonics News, 2002, 13, 22.	0.4	14
160	Driving corrugated donut rotors with Laguerre-Gauss beams. Optics Express, 2014, 22, 19692.	1.7	14
161	Nondestructive Profilometry of Optical Nanofibers. Nano Letters, 2016, 16, 7333-7337.	4.5	14
162	Optical-trapping of particles in air using parabolic reflectors and a hollow laser beam. Optics Express, 2019, 27, 33061.	1.7	14

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163	Distributed laser refrigeration. Applied Optics, 2001, 40, 5423.	2.1	13
164	Calibration of a single-atom detector for atomic microchips. Physical Review A, 2007, 76, .	1.0	13
165	Dynamical tunneling with ultracold atoms in magnetic microtraps. Physical Review A, 2013, 88, .	1.0	13
166	Comparison of T-matrix calculation methods for scattering by cylinders in optical tweezers. Optics Letters, 2014, 39, 4827.	1.7	13
167	Measuring local properties inside a cellâ€mimicking structure using rotating optical tweezers. Journal of Biophotonics, 2019, 12, e201900022.	1.1	13
168	OTSLM toolbox for Structured Light Methods. Computer Physics Communications, 2020, 253, 107199.	3.0	13
169	Reduction of Spectral Interferences from Na in Laser-Enhanced Ionization Spectrometry by Laser Pre-Ionization. Applied Spectroscopy, 1990, 44, 1117-1123.	1.2	12
170	Atoms in an amplitude-modulated standing wave - dynamics and pathways to quantum chaos. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 659-667.	1.4	12
171	Optically driven micromachines: progress and prospects. , 2005, , .		12
172	Atom counting in ultracold gases using photoionization and ion detection. Physical Review A, 2006, 74, .	1.0	12
173	Energy, momentum and propagation of non-paraxial high-order Gaussian beams in the presence of an aperture. Journal of Optics (United Kingdom), 2015, 17, 125601.	1.0	12
174	Escape forces and trajectories in optical tweezers and their effect on calibration. Optics Express, 2015, 23, 24317.	1.7	12
175	Investigation of the role of cadmium sulfide in the surface passivation of lead sulfide quantum dots. Journal of Crystal Growth, 2004, 270, 380-383.	0.7	11
176	Optical force field mapping in microdevices. Lab on A Chip, 2006, 6, 1545-1547.	3.1	11
177	Facile Synthesis of Rhodamine Esters using Acetyl Chloride in Alcohol Solution. Synthetic Communications, 2006, 36, 1745-1750.	1.1	11
178	Three-dimensional effects on line-of-sight visualization measurements of supersonic and hypersonic flow over cylinders. Shock Waves, 2007, 16, 299-307.	1.0	11
179	Active rotational and translational microrheology beyond the linear spring regime. Physical Review E, 2017, 95, 042608.	0.8	11
180	Modelling of Cavity Optomechanical Magnetometers. Sensors, 2018, 18, 1558.	2.1	11

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181	Analytical applications of laser-enhanced ionization spectrometry in flames and furnaces. Mikrochimica Acta, 1989, 99, 197-214.	2.5	10
182	Separating fluorescent species of aqueous PbS semiconductor nanocrystals using micro-emulsions. Nanotechnology, 2005, 16, 479-483.	1.3	10
183	Refractometry of organosilica microspheres. Applied Optics, 2007, 46, 1554.	2.1	10
184	High-Resolution Line Width Measurement of Single CdSe Nanocrystals at Long Time Scales. Journal of Physical Chemistry C, 2009, 113, 5345-5348.	1.5	10
185	Deep learning in lightâ€“matter interactions. Nanophotonics, 2022, 11, 3189-3214.	2.9	10
186	Investigation of Background Signals from Na as a Source of Interference in Laser-Enhanced Ionization Spectrometry in Flames. Applied Spectroscopy, 1990, 44, 1124-1133.	1.2	9
187	Visualization and analysis of bow shocks in a superorbital expansion tube. AIAA Journal, 1996, 34, 2200-2202.	1.5	9
188	Emission and Holographic Interferometry Measurements in a Superorbital Expansion Tube. AIAA Journal, 1998, 36, 1049-1054.	1.5	9
189	Flow tagging velocimetry in a superorbital expansion tube. Shock Waves, 2000, 10, 225-228.	1.0	9
190	Coherent Atomic Beam Splitter Using Transients of a Chaotic System. Physical Review Letters, 2000, 84, 4023-4026.	2.9	9
191	Ionizing Nitrogen and Air Flows in a Superorbital Expansion Tube. AIAA Journal, 2000, 38, 1685-1691.	1.5	9
192	Enhanced flow visualization with near-resonant holographic interferometry. Applied Optics, 2003, 42, 4445.	2.1	9
193	Bistable Switching between Low and High Absorbance States in Oleate-Capped PbS Quantum Dots. ACS Nano, 2009, 3, 2731-2739.	7.3	9
194	Approximate and exact modeling of optical trapping. , 2010, , .		9
195	Phase and micromotion of Bose-Einstein condensates in a time-averaged ring trap. Physical Review A, 2018, 98, .	1.0	9
196	Orientation of biological cells using plane-polarized gaussian beam optical tweezers. , 0, .		9
197	High-speed transverse and axial optical force measurements using amplitude filter masks. Optics Express, 2019, 27, 10034.	1.7	9
198	Turbulent Relaxation to Equilibrium in a Two-Dimensional Quantum Vortex Gas. Physical Review X, 2022, 12, .	2.8	9

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199	Detection of metallic elements by laser enhanced ionization spectroscopy in flames on-line with high-pressure liquid chromatography. Physica Scripta, 1987, 36, 246-249.	1.2	8
200	Infrared Seeded Parametric Four-Wave Mixing for Sensitive Detection of Molecules. Physical Review Letters, 1997, 79, 2046-2049.	2.9	8
201	‹title›Trapping microscopic particles with singular beams‹/title›. , 1998, 3487, 46.		8
202	Multiple bifurcations in atom optics. Physical Review A, 2001, 64, .	1.0	8
203	Impact of complex surfaces on biomicrorheological measurements using optical tweezers. Lab on A Chip, 2018, 18, 315-322.	3.1	8
204	Strong Transient Flows Generated by Thermoplasmonic Bubble Nucleation. ACS Nano, 2020, 14, 17468-17475.	7.3	8
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