Kishan Dholakia

List of Publications by Year
in descending order

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458 papers	28,984 citations	6606 79 h-index	5820 161 g-index
470 all docs	470 docs citations	470 times ranked	15378 citing authors

#	Article	IF	Citations
1	Microfluidic sorting in an optical lattice. Nature, 2003, 426, 421-424.	13.7	1,279
2	Bessel beams: Diffraction in a new light. Contemporary Physics, 2005, 46, 15-28.	0.8	1,112
3	Optically mediated particle clearing using Airy wavepackets. Nature Photonics, 2008, 2, 675-678.	15.6	1,067
4	Mechanical equivalence of spin and orbital angular momentum of light:â€ƒan optical spanner. Optics Letters, 1997, 22, 52.	1.7	1,030
5	Simultaneous micromanipulation in multiple planes using a self-reconstructing light beam. Nature, 2002, 419, 145-147.	13.7	962
6	Controlled Rotation of Optically Trapped Microscopic Particles. Science, 2001, 292, 912-914.	6.0	960
7	The role of LiO2 solubility in O2 reduction in aprotic solvents and its consequences for Liâ€“O2 batteries. Nature Chemistry, 2014, 6, 1091-1099.	6.6	942
8	Shaping the future of manipulation. Nature Photonics, 2011, 5, 335-342.	15.6	848
9	Generation of high-order Bessel beams by use of an axicon. Optics Communications, 2000, 177, 297-301.	1.0	710
10	Light-sheet microscopy using an Airy beam. Nature Methods, 2014, 11, 541-544.	9.0	679
11	Optical micromanipulation using a Bessel light beam. Optics Communications, 2001, 197, 239-245.	1.0	531
12	Membrane disruption by optically controlled microbubble cavitation. Nature Physics, 2005, 1, 107-110.	6.5	501
13	Creation and Manipulation of Three-Dimensional Optically Trapped Structures. Science, 2002, 296, 1101-1103.	6.0	481
14	Exploiting multimode waveguides for pure fibre-based imaging. Nature Communications, 2012, 3, 1027.	5.8	450
15	Colloquium: Gripped by light: Optical binding. Reviews of Modern Physics, 2010, 82, 1767-1791.	16.4	449
16	In situ wavefront correction and its application to micromanipulation. Nature Photonics, 2010, 4, 388-394.	15.6	390
17	Optical micromanipulation. Chemical Society Reviews, 2008, 37, 42-55.	18.7	366
18	Orbital angular momentum of a high-order Bessel light beam. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S82-S89.	1.4	357

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19	Second-harmonic generation and the orbital angular momentum of light. Physical Review A, 1996, 54, R3742-R3745.	1.0	348
20	Shaping the light transmission through a multimode optical fibre: complex transformation analysis and applications in biophotonics. Optics Express, 2011, 19, 18871.	1.7	292
21	Rotational Frequency Shift of a Light Beam. Physical Review Letters, 1998, 81, 4828-4830.	2.9	285
22	The production of multiringed Laguerreâ€“Gaussian modes by computer-generated holograms. Journal of Modern Optics, 1998, 45, 1231-1237.	0.6	269
23	Dynamics of microparticles trapped in a perfect vortex beam. Optics Letters, 2013, 38, 4919.	1.7	263
24	Second-harmonic generation and the conservation of orbital angular momentum with high-order Laguerre-Gaussian modes. Physical Review A, 1997, 56, 4193-4196.	1.0	254
25	Auto-focusing and self-healing of Pearcey beams. Optics Express, 2012, 20, 18955.	1.7	252
26	Laser-induced rotation and cooling of a trapped microgyroscope in vacuum. Nature Communications, 2013, 4, 2374.	5.8	251
27	Measurement of the Rotational Frequency Shift Imparted to a Rotating Light Beam Possessing Orbital Angular Momentum. Physical Review Letters, 1998, 80, 3217-3219.	2.9	241
28	One-Dimensional Optically Bound Arrays of Microscopic Particles. Physical Review Letters, 2002, 89, 283901.	2.9	218
29	Optical vortex trap for resonant confinement of metal nanoparticles. Optics Express, 2008, 16, 4991.	1.7	213
30	Interfering Bessel beams for optical micromanipulation. Optics Letters, 2003, 28, 657.	1.7	212
31	Optical conveyor belt for delivery of submicron objects. Applied Physics Letters, 2005, 86, 174101.	1.5	194
32	Atom guiding along Laguerre-Gaussian and Bessel light beams. Applied Physics B: Lasers and Optics, 2000, 71, 549-554.	1.1	190
33	Femtosecond optical transfection of cells:viability and efficiency. Optics Express, 2006, 14, 7125.	1.7	185
34	Optical micromanipulation takes hold. Nano Today, 2006, 1, 18-27.	6.2	183
35	Applications of spatial light modulators in atom optics. Optics Express, 2003, 11, 158.	1.7	175
36	Dual beam fibre trap for Raman micro-spectroscopy of single cells. Optics Express, 2006, 14, 5779.	1.7	172

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37	Single cell optical transfection. Journal of the Royal Society Interface, 2010, 7, 863-871.	1.5	163
38	All-optical control of microfluidic components using form birefringence. Nature Materials, 2005, 4, 530-533.	13.3	161
39	Gaussian beams with very high orbital angular momentum. Optics Communications, 1997, 144, 210-213.	1.0	160
40	Femtosecond optical tweezers for in-situ control of two-photon fluorescence. Optics Express, 2004, 12, 3011.	1.7	152
41	Early detection of cervical neoplasia by Raman spectroscopy. International Journal of Cancer, 2007, 121, 2723-2728.	2.3	150
42	Tunable Bessel light modes: engineering the axial propagation. Optics Express, 2009, 17, 15558.	1.7	150
43	Optical tweezers: the next generation. Physics World, 2002, 15, 31-35.	0.0	140
44	Multiple optical trapping and binding: new routes to self-assembly. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 102001.	0.6	135
45	Light beats the spread: â€œnonâ€diffractingâ€•beams. Laser and Photonics Reviews, 2010, 4, 529-547.	4.4	134
46	Optical sorting and detection of submicrometer objects in a motional standing wave. Physical Review B, 2006, 74, .	1.1	132
47	Optical levitation in a Bessel light beam. Applied Physics Letters, 2004, 85, 4001-4003.	1.5	131
48	Trapping in a Material World. ACS Photonics, 2016, 3, 719-736.	3.2	130
49	Trapping and manipulation of low-index particles in a two-dimensional interferometric optical trap. Optics Letters, 2001, 26, 863.	1.7	124
50	Bidirectional Optical Sorting of Gold Nanoparticles. Nano Letters, 2012, 12, 1923-1927.	4.5	124
51	High-order Laguerreâ€“Gaussian laser modes for studies of cold atoms. Optics Communications, 1998, 156, 300-306.	1.0	121
52	Three-dimensional arrays of optical bottle beams. Optics Communications, 2003, 225, 215-222.	1.0	119
53	Optical dipole traps and atomic waveguides based on Bessel light beams. Physical Review A, 2001, 63, .	1.0	118
54	Optical trapping of three-dimensional structures using dynamic holograms. Optics Express, 2003, 11, 3562.	1.7	118

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55	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. Nanophotonics, 2020, 10, 259-293.	2.9	118
56	Manipulation and filtration of low index particles with holographic Laguerre-Gaussian optical trap arrays. Optics Express, 2004, 12, 593.	1.7	117
57	Long-Range One-Dimensional Longitudinal Optical Binding. Physical Review Letters, 2008, 101, 143601.	2.9	116
58	Orbital angular momentum transfer in helical Mathieu beams. Optics Express, 2006, 14, 4182.	1.7	115
59	Optical tweezers with increased axial trapping efficiency. Journal of Modern Optics, 1998, 45, 1943-1949.	0.6	113
60	Construction and calibration of an optical trap on a fluorescence optical microscope. Nature Protocols, 2007, 2, 3226-3238.	5.5	113
61	Light forces the pace: optical manipulation for biophotonics. Journal of Biomedical Optics, 2010, 15, 041503.	1.4	110
62	In-fiber common-path optical coherence tomography using a conical-tip fiber. Optics Express, 2009, 17, 2375.	1.7	109
63	Online Fluorescence Suppression in Modulated Raman Spectroscopy. Analytical Chemistry, 2010, 82, 738-745.	3.2	106
64	Parametric down-conversion for light beams possessing orbital angular momentum. Physical Review A, 1999, 59, 3950-3952.	1.0	105
65	Optical deflection and sorting of microparticles in a near-field optical geometry. Optics Express, 2008, 16, 3712.	1.7	105
66	Experimental observation of optical vortex evolution in a Gaussian beam with an embedded fractional phase step. Optics Communications, 2004, 239, 129-135.	1.0	104
67	Propagation characteristics of Airy beams: dependence upon spatial coherence and wavelength. Optics Express, 2009, 17, 13236.	1.7	103
68	Fractionation of polydisperse colloid with acousto-optically generated potential energy landscapes. Optics Letters, 2007, 32, 1144.	1.7	99
69	Nanoshells for Surface-Enhanced Raman Spectroscopy in Eukaryotic Cells: Cellular Response and Sensor Development. ACS Nano, 2009, 3, 3613-3621.	7.3	97
70	Experimental Observation of Modulation Instability and Optical Spatial Soliton Arrays in Soft Condensed Matter. Physical Review Letters, 2007, 98, 203902.	2.9	95
71	Visualization of the birth of an optical vortex using diffraction from a triangular aperture. Optics Express, 2011, 19, 5760.	1.7	95
72	Light-induced cell separation in a tailored optical landscape. Applied Physics Letters, 2005, 87, 123901.	1.5	94

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73	Willin/FRMD6 expression activates the Hippo signaling pathway kinases in mammals and antagonizes oncogenic YAP. Oncogene, 2012, 31, 238-250.	2.6	93
74	A New Twist for Materials Science: The Formation of Chiral Structures Using the Angular Momentum of Light. Advanced Optical Materials, 2019, 7, 1801672.	3.6	89
75	Revolving interference patterns for the rotation of optically trapped particles. Optics Communications, 2002, 201, 21-28.	1.0	88
76	Generation of multiple Bessel beams for a biophotonics workstation. Optics Express, 2008, 16, 14024.	1.7	88
77	Brownian Particle in an Optical Potential of the Washboard Type. Physical Review Letters, 2003, 91, 038101.	2.9	84
78	Photoporation and cell transfection using a violet diode laser. Optics Express, 2005, 13, 595.	1.7	84
79	Optical redistribution of microparticles and cells between microwells. Lab on A Chip, 2009, 9, 1334.	3.1	81
80	Transverse particle dynamics in a Bessel beam. Optics Express, 2007, 15, 13972.	1.7	80
81	Harnessing speckle for a sub-femtometre resolved broadband wavemeter and laser stabilization. Nature Communications, 2017, 8, 15610.	5.8	80
82	Nonlinear optical response of colloidal suspensions. Optics Express, 2009, 17, 10277.	1.7	79
83	Optimal algorithm for fluorescence suppression of modulated Raman spectroscopy. Optics Express, 2010, 18, 11382.	1.7	79
84	A compact Airy beam light sheet microscope with a tilted cylindrical lens. Biomedical Optics Express, 2014, 5, 3434.	1.5	78
85	Optical Eigenmodes; exploiting the quadratic nature of the light-matter interaction. Optics Express, 2011, 19, 933.	1.7	77
86	Multi-modal approach using Raman spectroscopy and optical coherence tomography for the discrimination of colonic adenocarcinoma from normal colon. Biomedical Optics Express, 2013, 4, 2179.	1.5	77
87	Optically Anisotropic Colloids of Controllable Shape. Advanced Materials, 2005, 17, 680-684.	11.1	76
88	Light-sheet microscopy with attenuation-compensated propagation-invariant beams. Science Advances, 2018, 4, eaar4817.	4.7	76
89	Direct electron-beam writing of continuous spiral phase plates in negative resist with high power efficiency for optical manipulation. Applied Physics Letters, 2004, 85, 5784-5786.	1.5	75
90	The resolution of optical traps created by Light Induced Dielectrophoresis (LIDEP). Optics Express, 2007, 15, 12619.	1.7	73

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91	Analysis of optical binding in one dimension. Applied Physics B: Lasers and Optics, 2006, 84, 149-156.	1.1	71
92	Visualization of optical binding of microparticles using a femtosecond fiber optical trap. Optics Express, 2006, 14, 3677.	1.7	69
93	Comparing acoustic and optical forces for biomedical research. Nature Reviews Physics, 2020, 2, 480-491.	11.9	69
94	White light propagation invariant beams. Optics Express, 2005, 13, 6657.	1.7	67
95	Femtosecond optical transfection of individual mammalian cells. Nature Protocols, 2013, 8, 1216-1233.	5.5	67
96	Three-dimensional optical forces and transfer of orbital angular momentum from multiringed light beams to spherical microparticles. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1749.	0.9	66
97	Optical trapping for analytical biotechnology. Current Opinion in Biotechnology, 2012, 23, 16-21.	3.3	66
98	Optical trapping of NaYF4:Er3+,Yb3+ upconverting fluorescent nanoparticles. Nanoscale, 2013, 5, 12192.	2.8	66
99	Waveguide confined Raman spectroscopy for microfluidic interrogation. Lab on A Chip, 2011, 11, 1262.	3.1	65
100	Far field subwavelength focusing using optical eigenmodes. Applied Physics Letters, 2011, 98, .	1.5	65
101	Integrated monolithic optical manipulation. Lab on A Chip, 2006, 6, 1122.	3.1	61
102	Near-field optical micromanipulation with cavity enhanced evanescent waves. Applied Physics Letters, 2006, 88, 221116.	1.5	60
103	Experimental and theoretical determination of optical binding forces. Optics Express, 2010, 18, 25389.	1.7	60
104	Is it possible to create a perfect fractional vortex beam?. Optica, 2017, 4, 330.	4.8	60
105	Optical Trapping Takes Shape: The Use of Structured Light Fields. Advances in Atomic, Molecular and Optical Physics, 2008, 56, 261-337.	2.3	59
106	An experiment to study a â€œnondiffractingâ€•light beam. American Journal of Physics, 1999, 67, 912-915.	0.3	57
107	Enhanced operation of femtosecond lasers and applications in cell transfection. Journal of Biophotonics, 2008, 1, 183-199.	1.1	57
108	Modulated Raman spectroscopy for enhanced identification of bladder tumor cells in urine samples. Journal of Biomedical Optics, 2011, 16, 037002.	1.4	57

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109	Targeted optical injection of gold nanoparticles into single mammalian cells. Journal of Biophotonics, 2009, 2, 736-743.	1.1	56
110	Measuring the orbital angular momentum of partially coherent optical vortices through singularities in their cross-spectral density functions. Optics Letters, 2012, 37, 4949.	1.7	56
111	GPU accelerated toolbox for real-time beam-shaping in multimode fibres. Optics Express, 2014, 22, 2933.	1.7	56
112	Discrimination of bladder cancer cells from normal urothelial cells with high specificity and sensitivity: Combined application of atomic force microscopy and modulated Raman spectroscopy. Acta Biomaterialia, 2014, 10, 2043-2055.	4.1	56
113	Optically guided neuronal growth at near infrared wavelengths. Optics Express, 2006, 14, 9786.	1.7	54
114	Effect of pulse temporal shape on optical trapping and impulse transfer using ultrashort pulsed lasers. Optics Express, 2010, 18, 7554.	1.7	53
115	Random super-prism wavelength meter. Optics Letters, 2014, 39, 96.	1.7	53
116	Ion Oscillation Frequencies in a Combined Trap. Journal of Modern Optics, 1992, 39, 305-316.	0.6	52
117	Optical guiding of microscopic particles in femtosecond and continuous wave Bessel light beams. Optics Express, 2004, 12, 2560.	1.7	52
118	Atom guiding along high order Laguerreâ€“Gaussian light beams formed by spatial light modulation. Journal of Modern Optics, 2006, 53, 547-556.	0.6	50
119	Cellular and Colloidal Separation Using Optical Forces. Methods in Cell Biology, 2007, 82, 467-495.	0.5	50
120	Guided neuronal growth using optical line traps. Optics Express, 2008, 16, 10507.	1.7	50
121	Modulated Raman Spectroscopy for Enhanced Cancer Diagnosis at the Cellular Level. Sensors, 2015, 15, 13680-13704.	2.1	50
122	Efficiency of second-harmonic generation with Bessel beams. Physical Review A, 1999, 60, 2438-2441.	1.0	49
123	Optical binding of two cooled micro-gyroscopes levitated in vacuum. Optica, 2018, 5, 910.	4.8	49
124	Application of dynamic diffractive optics for enhanced femtosecond laser based cell transfection. Journal of Biophotonics, 2010, 3, 696-705.	1.1	48
125	Fiber probe based microfluidic raman spectroscopy. Optics Express, 2010, 18, 7642.	1.7	48
126	Optical path clearing and enhanced transmission through colloidal suspensions. Optics Express, 2010, 18, 17130.	1.7	48

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127	Raman imaging through a single multimode fibre. Optics Express, 2017, 25, 13782.	1.7	48
128	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. Laser and Photonics Reviews, 2020, 14, 2000120.	4.4	47
129	Effect of the radial and azimuthal mode indices of a partially coherent vortex field upon a spatial correlation singularity. New Journal of Physics, 2013, 15, 113053.	1.2	46
130	Multimode fibre: Light-sheet microscopy at the tip of a needle. Scientific Reports, 2015, 5, 18050.	1.6	46
131	Enhancement of image quality and imaging depth with Airy light-sheet microscopy in cleared and non-cleared neural tissue. Biomedical Optics Express, 2016, 7, 4021.	1.5	46
132	Fibre based cellular transfection. Optics Express, 2008, 16, 17007.	1.7	45
133	Simultaneous determination of the constituent azimuthal and radial mode indices for light fields possessing orbital angular momentum. Applied Physics Letters, 2012, 100, .	1.5	45
134	Overcoming the speckle correlation limit to achieve a fiber wavemeter with attometer resolution. Optics Letters, 2019, 44, 1367.	1.7	45
135	Picoliter Rheology of Gaseous Media Using a Rotating Optically Trapped Birefringent Microparticle. Analytical Chemistry, 2011, 83, 8855-8858.	3.2	43
136	Integrated single- and two-photon light sheet microscopy using accelerating beams. Scientific Reports, 2017, 7, 1435.	1.6	43
137	A dual beam photonic crystal fiber trap for microscopic particles. Applied Physics Letters, 2008, 93, 041110.	1.5	42
138	The Use of Wavelength Modulated Raman Spectroscopy in Label-Free Identification of T Lymphocyte Subsets, Natural Killer Cells and Dendritic Cells. PLoS ONE, 2015, 10, e0125158.	1.1	42
139	Near infrared spectroscopic analysis of single malt Scotch whisky on an optofluidic chip. Optics Express, 2011, 19, 22982.	1.7	41
140	Three-photon light-sheet fluorescence microscopy. Optics Letters, 2018, 43, 5484.	1.7	41
141	Multimodal discrimination of immune cells using a combination of Raman spectroscopy and digital holographic microscopy. Scientific Reports, 2017, 7, 43631.	1.6	40
142	Optical hooks. Nature Photonics, 2019, 13, 229-230.	15.6	40
143	Guiding a cold atomic beam along a co-propagating and oblique hollow light guide. Optics Communications, 2002, 214, 247-254.	1.0	39
144	Spatially optimized gene transfection by laser-induced breakdown of optically trapped nanoparticles. Applied Physics Letters, 2011, 98, .	1.5	39

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145	Rotational Dynamics and Heating of Trapped Nanovaterite Particles. ACS Nano, 2016, 10, 11505-11510.	7.3	39
146	Wide-field multiphoton imaging through scattering media without correction. Science Advances, 2018, 4, eaau1338.	4.7	39
147	Optical trapping with planar silicon metalenses. Optics Letters, 2018, 43, 3224.	1.7	39
148	Is there an optimal basis to maximise optical information transfer?. Scientific Reports, 2016, 6, 22821.	1.6	38
149	Exploring the Limit of Multiplexed Near-Field Optical Trapping. ACS Photonics, 2021, 8, 2060-2066.	3.2	38
150	Characterisation of an extended cavity violet diode laser. Optics Communications, 2000, 175, 185-188.	1.0	37
151	Phototransfection of mammalian cells using femtosecond laser pulses: optimization and applicability to stem cell differentiation. Journal of Biomedical Optics, 2010, 15, 041507.	1.4	37
152	Quantitative phase study of the dynamic cellular response in femtosecond laser photoporation. Biomedical Optics Express, 2010, 1, 414.	1.5	37
153	Enhancement of optical forces using slow light in a photonic crystal waveguide. Optica, 2015, 2, 816.	4.8	37
154	Moving interference patterns created using the angular Doppler-effect. Optics Express, 2002, 10, 844.	1.7	36
155	Raman-Activated Cell Counting for Profiling Carbon Dioxide Fixing Microorganisms. Journal of Physical Chemistry A, 2012, 116, 6560-6563.	1.1	36
156	Biologically enabled sub-diffractive focusing. Optics Express, 2014, 22, 27214.	1.7	36
157	Optical eigenmode imaging. Physical Review A, 2011, 84, .	1.0	34
158	Dynamics of a levitated microparticle in vacuum trapped by a perfect vortex beam: three-dimensional motion around a complex optical potential. Journal of the Optical Society of America B: Optical Physics, 2017, 34, C14.	0.9	34
159	Optical trapping and spectral analysis of aerosols with a supercontiuum laser source. Optics Express, 2008, 16, 7655.	1.7	33
160	Optical injection of mammalian cells using a microfluidic platform. Biomedical Optics Express, 2010, 1, 527.	1.5	33
161	High-throughput optical injection of mammalian cells using a Bessel light beam. Lab on A Chip, 2012, 12, 4816.	3.1	33
162	Orbital-angular-momentum transfer to optically levitated microparticles in vacuum. Physical Review A, 2016, 94, .	1.0	33

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163	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	3.2	33
164	Light sheet fluorescence microscopy for neuroscience. Journal of Neuroscience Methods, 2019, 319, 16-27.	1.3	33
165	Bethâ€™s experiment using optical tweezers. American Journal of Physics, 2001, 69, 271-276.	0.3	32
166	Laser-induced breakdown of an optically trapped gold nanoparticle for single cell transfection. Optics Letters, 2013, 38, 3402.	1.7	32
167	Accelerating vortices in Airy beams. Proceedings of SPIE, 2009, , .	0.8	31
168	Photon-correlation detection of ion-oscillation frequencies in quadrupole ion traps. Physical Review A, 1993, 47, 441-448.	1.0	30
169	Optical Separation of Cells on Potential Energy Landscapes: Enhancement With Dielectric Tagging. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1646-1654.	1.9	30
170	Wavefront corrected light sheet microscopy in turbid media. Applied Physics Letters, 2012, 100, .	1.5	30
171	Creating and probing of a perfect vortex in situ with an optically trapped particle. Optical Review, 2015, 22, 162-165.	1.2	30
172	An Organic Vortex Laser. ACS Nano, 2018, 12, 2389-2394.	7.3	30
173	Coherent oscillations of a levitated birefringent microsphere in vacuum driven by nonconservative rotation-translation coupling. Science Advances, 2020, 6, eaaz9858.	4.7	30
174	Optical trapping in counter-propagating Bessel beams. , 2004, , .		29
175	Monolithic integration of microfluidic channels and semiconductor lasers. Optics Express, 2006, 14, 7723.	1.7	29
176	Optical detection and grading of lung neoplasia by Raman microspectroscopy. International Journal of Cancer, 2009, 124, 376-380.	2.3	29
177	Integrated holographic system for all-optical manipulation of developing embryos. Biomedical Optics Express, 2011, 2, 1564.	1.5	29
178	Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams. Optics Express, 2008, 16, 10117.	1.7	28
179	Generation of attenuation-compensating Airy beams. Optics Letters, 2014, 39, 4950.	1.7	28
180	Visualization of podocyte substructure with structured illumination microscopy (SIM): a new approach to nephrotic disease. Biomedical Optics Express, 2016, 7, 302.	1.5	28

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181	Optical manipulation: advances for biophotonics in the 21st century. Journal of Biomedical Optics, 2021, 26, .	1.4	28
182	Integrated optical transfection system using a microlens fiber combined with microfluidic gene delivery. Biomedical Optics Express, 2010, 1, 694.	1.5	27
183	Fast targeted gene transfection and optogenetic modification of single neurons using femtosecond laser irradiation. Scientific Reports, 2013, 3, 3281.	1.6	27
184	A polarisation spectrometer locked diode laser for trapping cold atoms. Optics Communications, 1999, 170, 79-84.	1.0	26
185	Cavity-enhanced optical bottle beam as a mechanical amplifier. Physical Review A, 2002, 66, .	1.0	25
186	Imaging in optical micromanipulation using two-photon excitation. New Journal of Physics, 2004, 6, 136-136.	1.2	25
187	Theory and simulation of the bistable behaviour of optically bound particles in the Mie size regime. New Journal of Physics, 2006, 8, 139-139.	1.2	25
188	Fast volume-scanning light sheet microscopy reveals transient neuronal events. Biomedical Optics Express, 2018, 9, 2154.	1.5	25
189	The Temperature of an Optically Trapped, Rotating Microparticle. ACS Photonics, 2018, 5, 3772-3778.	3.2	25
190	Light sheet microscopy with acoustic sample confinement. Nature Communications, 2019, 10, 669.	5.8	25
191	Rapid broadband characterization of scattering medium using hyperspectral imaging. Optica, 2019, 6, 274.	4.8	25
192	Ion dynamics in perturbed quadrupole ion traps. Physical Review A, 1998, 57, 1944-1956.	1.0	24
193	Optical chromatography using a photonic crystal fiber with on-chip fluorescence excitation. Optics Express, 2010, 18, 6396.	1.7	24
194	Rotation of two trapped microparticles in vacuum: observation of optically mediated parametric resonances. Optics Letters, 2015, 40, 4751.	1.7	24
195	Label-free optical vibrational spectroscopy to detect the metabolic state of M. tuberculosis cells at the site of disease. Scientific Reports, 2017, 7, 9844.	1.6	24
196	Real-time monitoring of live mycobacteria with a microfluidic acoustic-Raman platform. Communications Biology, 2020, 3, 236.	2.0	24
197	Spatial transformation of Laguerre-Gaussian laser modes. Journal of Modern Optics, 2001, 48, 783-787.	0.6	24
198	Depthâ€resolved multimodal imaging: Wavelength modulated spatially offset Raman spectroscopy with optical coherence tomography. Journal of Biophotonics, 2018, 11, e201700129.	1.1	23

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199	Preface: Optical tweezers in a new light. Journal of Modern Optics, 2003, 50, 1501-1507.	0.6	23
200	Femtometer-resolved simultaneous measurement of multiple laser wavelengths in a speckle wavemeter. Optics Letters, 2020, 45, 1926.	1.7	23
201	Classification of Raman spectra of single cells with autofluorescence suppression by wavelength modulated excitation. Analytical Methods, 2013, 5, 4608.	1.3	22
202	A Raman spectroscopy bioâ€sensor for tissue discrimination in surgical robotics. Journal of Biophotonics, 2014, 7, 103-109.	1.1	22
203	Nanostructural Diversity of Synapses in the Mammalian Spinal Cord. Scientific Reports, 2020, 10, 8189.	1.6	22
204	Optical tweezers in a new light. Journal of Modern Optics, 2003, 50, 1501-1507.	0.6	21
205	Etaloning, fluorescence and ambient light suppression by modulated wavelength Raman spectroscopy. Biomedical Spectroscopy and Imaging, 2012, 1, 383-389.	1.2	21
206	Coherent control of plasmonic nanoantennas using optical eigenmodes. Scientific Reports, 2013, 3, 1808.	1.6	21
207	Atom Hosepipes. Contemporary Physics, 1998, 39, 351-369.	0.8	20
208	Optoelectronic tweezers. Nature Materials, 2005, 4, 579-580.	13.3	20
209	Enhanced optical guiding of colloidal particles using a supercontinuum light source. Optics Express, 2006, 14, 5792.	1.7	20
210	Passive optical separation within a 'nondiffracting' light beam. Journal of Biomedical Optics, 2007, 12, 054017.	1.4	20
211	Automated laser guidance of neuronal growth cones using a spatial light modulator. Journal of Biophotonics, 2009, 2, 682-692.	1.1	20
212	Enhanced bioanalyte detection in waveguide confined Raman spectroscopy using wavelength modulation. Journal of Biophotonics, 2011, 4, 514-518.	1.1	20
213	Nonredundant Raman imaging using optical eigenmodes. Optica, 2014, 1, 257.	4.8	20
214	Towards automated cancer screening: Labelâ€free classification of fixed cell samples using wavelength modulated Raman spectroscopy. Journal of Biophotonics, 2018, 11, e201700244.	1.1	20
215	Optimal compressive multiphoton imaging at depth using single-pixel detection. Optics Letters, 2019, 44, 4981.	1.7	20
216	Fluorescence suppression using wavelength modulated Raman spectroscopy in fiber-probe-based tissue analysis. Journal of Biomedical Optics, 2012, 17, 0770061.	1.4	19

#	Article	IF	Citations
217	Multimodal biophotonic workstation for live cell analysis. Journal of Biophotonics, 2012, 5, 9-13.	1.1	19
218	Macro-optical trapping for sample confinement in light sheet microscopy. Biomedical Optics Express, 2015, 6, 2778.	1.5	19
219	Photopolymerization with high-order Bessel light beams. Optics Letters, 2020, 45, 4080.	1.7	19
220	Optical trapping with a perfect vortex beam. Proceedings of SPIE, 2014, , .	0.8	18
221	Enhancement and optimization of plasmid expression in femtosecond optical transfection. Journal of Biophotonics, 2011, 4, 229-235.	1.1	17
222	Optical transfection using an endoscope-like system. Journal of Biomedical Optics, 2011, 16, 028002.	1.4	17
223	BPM-Matlab: an open-source optical propagation simulation tool in MATLAB. Optics Express, 2021, 29, 11819.	1.7	17
224	Direct detection of optical phase conjugation in a colloidal medium. Optics Express, 2007, 15, 6330.	1.7	16
225	Wide-field three-dimensional optical imaging using temporal focusing for holographically trapped microparticles. Optics Letters, 2015, 40, 4847.	1.7	16
226	A compact light-sheet microscope for the study of the mammalian central nervous system. Scientific Reports, 2016, 6, 26317.	1.6	16
227	Photon Correlation Measurement of Ion Oscillation Frequencies in a Combined Trap. Journal of Modern Optics, 1992, 39, 2179-2185.	0.6	15
228	A visible extended cavity diode laser for the undergraduate laboratory. American Journal of Physics, 2000, 68, 925-931.	0.3	15
229	Single-scan spectroscopy of mercury at 253.7nm by sum frequency mixing of violet and red microlensed diode lasers. Optics Communications, 2005, 255, 261-266.	1.0	15
230	Exploring the ultrashort pulse laser parameter space for membrane permeabilisation in mammalian cells. Scientific Reports, 2012, 2, 858.	1.6	15
231	Does artificial intelligence have a role in the IVF clinic?. Reproduction and Fertility, 2021, 2, C29-C34.	0.6	15
232	Initiating revolutions for optical manipulation: the origins and applications of rotational dynamics of trapped particles. Advances in Physics: X, 2021, 6, 1838322.	1.5	15
233	Twisted mass transport enabled by the angular momentum of light. Journal of Nanophotonics, 2020, 14, 1.	0.4	15
234	Label-free optical hemogram of granulocytes enhanced by artificial neural networks. Optics Express, 2019, 27, 13706.	1.7	15

#	Article	IF	Citations
235	Optical impedance of metallic nano-structures. Optics Express, 2006, 14, 7709.	1.7	14
236	Extended Kalman Filtering Projection Method to Reduce the 3Ïƒ Noise Value of Optical Biosensors. ACS Sensors, 2020, 5, 3474-3482.	4.0	14
237	Polarization and Orbital Angular Momentum of Light in Biomedical Applications: feature issue introduction. Biomedical Optics Express, 2021, 12, 6255.	1.5	14
238	An experiment to demonstrate the angular Doppler effect on laser light. American Journal of Physics, 1998, 66, 1007-1010.	0.3	13
239	An extended-cavity diode laser with a circular output beam. Review of Scientific Instruments, 2000, 71, 3646.	0.6	13
240	The dark spots of Arago. Optics Express, 2007, 15, 11860.	1.7	13
241	Against the spread of the light. Nature, 2008, 451, 413-413.	13.7	13
242	Quantitative Detection of Pharmaceuticals Using a Combination of Paper Microfluidics and Wavelength Modulated Raman Spectroscopy. PLoS ONE, 2015, 10, e0123334.	1.1	13
243	Optical Spectroscopic Analysis for the Discrimination of Extra-Virgin Olive Oil. Applied Spectroscopy, 2016, 70, 1872-1882.	1.2	13
244	Widefield light sheet microscopy using an Airy beam combined with deep-learning super-resolution. OSA Continuum, 2020, 3, 1068.	1.8	13
245	Numerical investigation of passive optical sorting of plasmon nanoparticles. Optics Express, 2011, 19, 13922.	1.7	12
246	Measuring and structuring the spatial coherence length of organic lightâ€emitting diodes. Laser and Photonics Reviews, 2016, 10, 82-90.	4.4	12
247	Wavelength sensitivity of the speckle patterns produced by an integrating sphere. JPhys Photonics, 2021, 3, 035005.	2.2	12
248	Quantum optics with trapped and laser cooled magnesium ions. Physica Scripta, 1992, 46, 285-288.	1.2	11
249	Controlled simultaneous rotation of multiple optically trapped particles. Journal of Modern Optics, 2003, 50, 1591-1599.	0.6	11
250	Interference from multiple trapped colloids in an optical vortex beam. Optics Express, 2006, 14, 7436.	1.7	11
251	Transient transfection of mammalian cells using a violet diode laser. Journal of Biomedical Optics, 2010, 15, 041506.	1.4	11
252	Optimisation of Wavelength Modulated Raman Spectroscopy: Towards High Throughput Cell Screening. PLoS ONE, 2013, 8, e67211.	1.1	11

#	Article	IF	Citations
253	Femtosecond Optoinjection of Intact Tobacco BY-2 Cells Using a Reconfigurable Photoporation Platform. PLoS ONE, 2013, 8, e79235.	1.1	11
254	Optical Forces and Torques on Eccentric Nanoscale Coreâ€“Shell Particles. ACS Photonics, 2021, 8, 1103-1111.	3.2	11
255	Orbital angular momentum transfer in helical Mathieu beams. Optics Express, 2006, 14, 4183.	1.7	10
256	Green laser light (532nm) activates a chloride current in the C1 neuron of Helix aspersa. Neuroscience Letters, 2008, 433, 265-269.	1.0	10
257	Tissue surface as the reference arm in Fourier domain optical coherence tomography. Journal of Biomedical Optics, 2012, 17, 071305.	1.4	10
258	The dyslexia susceptibility KIAA0319 gene shows a specific expression pattern during zebrafish development supporting a role beyond neuronal migration. Journal of Comparative Neurology, 2019, 527, 2634-2643.	0.9	10
259	High speed determination of laser wavelength using PoincarÃ© descriptors of speckle. Optics Communications, 2020, 459, 124906.	1.0	10
260	Probing Vibrational Strong Coupling of Molecules with Wavelengthâ€Modulated Raman Spectroscopy. Advanced Optical Materials, 2022, 10, .	3.6	10
261	A driven, trapped, laser cooled ion cloud: a forced damped oscillator. Optics Communications, 1999, 159, 169-176.	1.0	9
262	Stabilization of an 852 nm extended cavity diode laser using the Zeeman effect. Journal of Modern Optics, 2000, 47, 1933-1940.	0.6	9
263	Optical trapping and fluorescence excitation with violet diode lasers and extended cavity surface emitting lasers. Optics Express, 2004, 12, 670.	1.7	9
264	Enhanced cell transfection using subwavelength focused optical eigenmode beams [Invited]. Photonics Research, 2013, 1, 42.	3.4	9
265	Emergent physics-informed design of deep learning for microscopy. JPhys Photonics, 2021, 3, 021003.	2.2	9
266	Controlled three-dimensional manipulation of vanadium oxide nanotubes with optical tweezers. Applied Physics Letters, 2008, 93, 243107.	1.5	8
267	An interacting dipole model to explore broadband transverse optical binding. Journal of Physics Condensed Matter, 2012, 24, 464117.	0.7	8
268	Wavelength modulated surface enhanced (resonance) Raman scattering for background-free detection. Analyst, The, 2013, 138, 2816.	1.7	8
269	Development of a graded index microlens based fiber optical trap and its characterization using principal component analysis. Biomedical Optics Express, 2015, 6, 1512.	1.5	8
270	Enhanced Optical Manipulation of Cells Using Antireflection Coated Microparticles. ACS Photonics, 2015, 2, 1403-1409.	3.2	8

#	Article	IF	Citations
271	Through-bottle whisky sensing and classification using Raman spectroscopy in an axicon-based backscattering configuration. Analytical Methods, 2020, 12, 4572-4578.	1.3	8
272	Realization of a mirror magneto-optical trap. Journal of Modern Optics, 2001, 48, 1123-1128.	0.6	7
273	Optical vortices produced by diffraction from dislocations in two-dimensional colloidal crystals. New Journal of Physics, 2006, 8, 257-257.	1.2	7
274	Propagation and diffraction of optical vortices. Physica C: Superconductivity and Its Applications, 2008, 468, 514-517.	0.6	7
275	Transfection by Optical Injection. Series in Medical Physics and Biomedical Engineering, 2010, , 87-118.	0.1	7
276	Optofluidic Raman sensor for simultaneous detection of the toxicity and quality of alcoholic beverages. Journal of Raman Spectroscopy, 2013, 44, 795-797.	1.2	7
277	Gold nanorod assisted intracellular optical manipulation of silica microspheres. Optics Express, 2014, 22, 19735.	1.7	7
278	Modal beam splitter: determination of the transversal components of an electromagnetic light field. Scientific Reports, 2017, 7, 9139.	1.6	7
279	Detecting Phenotypically Resistant Mycobacterium tuberculosis Using Wavelength Modulated Raman Spectroscopy. Methods in Molecular Biology, 2018, 1736, 41-50.	0.4	7
280	Microscale diamond protection for a ZnO coated fiber optic sensor. Scientific Reports, 2020, 10, 19141.	1.6	7
281	The Application of Optical Coherence Tomography to Image Subsurface Tissue Structure of Antarctic Krill Euphausia superba. PLoS ONE, 2014, 9, e110367.	1.1	7
282	Stochastic Hopf bifurcations in vacuum optical tweezers. Physical Review A, 2021, 104, .	1.0	7
283	Optical manipulation: a step change for biomedical science. Contemporary Physics, 2020, 61, 277-294.	0.8	7
284	Fabrication on the microscale: a two-photon polymerized device for oocyte microinjection. Journal of Assisted Reproduction and Genetics, 2022, 39, 1503-1513.	1.2	7
285	Near-field optical trapping with an ultrashort pulsed laser beam. Applied Physics Letters, 2008, 92, 081108.	1.5	6
286	Intracellular Dielectric Tagging for Improved Optical Manipulation of Mammalian Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 608-618.	1.9	6
287	Valve controlled fluorescence detection system for remote sensing applications. Microfluidics and Nanofluidics, 2011, 11, 529-536.	1.0	6
288	Microfluidic Raman Spectroscopy for Bio-chemical Sensing and Analysis. Springer Series on Chemical Sensors and Biosensors, 2012, , 247-268.	0.5	6

#	Article	IF	Citations
289	Willin/FRMD6 Influences Mechanical Phenotype and Neuronal Differentiation in Mammalian Cells by Regulating ERK1/2 Activity. Frontiers in Cellular Neuroscience, 2020, 14, 552213.	1.8	6
290	Optical manipulation of a dielectric particle along polygonal closed-loop geometries within a single water droplet. Scientific Reports, 2021, 11, 12690.	1.6	6
291	Measurement of Variations in Gas Refractive Index with 10^{â€“9} Resolution Using Laser Speckle. ACS Photonics, 2022, 9, 830-836.	3.2	6
292	Investigation of ion dynamics in a Penning trap using a pulse-probe technique. Applied Physics B: Lasers and Optics, 1995, 60, 375-382.	1.1	5
293	Cavity-enhanced toroidal dipole force traps for dark-field seeking species. Optics Communications, 2002, 201, 99-104.	1.0	5
294	Transient response of a cold atomic beam in the presence of a far-off resonance light guide. Journal of Modern Optics, 2003, 50, 1751-1755.	0.6	5
295	Multimode fibre based imaging for optically cleared samples. Biomedical Optics Express, 2017, 8, 5179.	1.5	5
296	Speckle-based determination of the polarisation state of single and multiple laser beams. OSA Continuum, 2020, 3, 1302.	1.8	5
297	The effect of discrete wavelengths of visible light on the developing murine embryo. Journal of Assisted Reproduction and Genetics, 2022, 39, 1825-1837.	1.2	5
298	Size resolution with light-induced dielectrophoresis (LIDEP). , 2006, 6326, 303.		4
299	Two-photon ablation with 1278 nm laser radiation. Journal of Optics, 2007, 9, S19-S23.	1.5	4
300	Optical trapping using ultrashort 12.9fs pulses. , 2008, , .		4
301	Revisiting transverse optical binding. , 2009, , .		4
302	Imaging the cellular response to transient shear stress using stroboscopic digital holography. Journal of Biomedical Optics, 2011, 16, 120508.	1.4	4
303	Multi-photon attenuation-compensated light-sheet fluorescence microscopy. Scientific Reports, 2020, 10, 8090.	1.6	4
304	Incorporation of nitrogen in diamond films â€“ A new way of tuning parameters for optical passive elements. Diamond and Related Materials, 2021, 111, 108221.	1.8	4
305	Is laser repetition rate important for two-photon light sheet microscopy?. OSA Continuum, 2020, 3, 2935.	1.8	4
306	Microfluidic optical sorting: particle selection in an optical lattice. , 2004, , .		3

#	Article	IF	Citations
307	Near-Field Optical Micromanipulation. , 2008, , 107-137.		3
308	Supercontinuum Airy beams. , 2009, , .		3
309	Resonance enhanced optical manipulation: the push and pull of light. , 2012, , .		3
310	Transverse optical binding for a dual dipolar dielectric nanoparticle dimer. Physical Review A, 2021, 103, .	1.0	3
311	A laser-driven optical atomizer: photothermal generation and transport of zeptoliter-droplets along a carbon nanotube deposited hollow optical fiber. Nanoscale, 2022, 14, 5138-5146.	2.8	3
312	To focus-match or not to focus-match inverse spatially offset Raman spectroscopy: a question of light penetration. Optics Express, 2022, 30, 8876.	1.7	3
313	Microlensed red and violet diode lasers in an extended cavity geometry. Review of Scientific Instruments, 2004, 75, 3360-3362.	0.6	2
314	Guiding and trapping microparticles in an extended surface field. , 2004, , .		2
315	Optical transfection of mammalian cells. , 2006, 6191, 105.		2
316	Axial intensity shaping of a Bessel beam. , 2009, , .		2
317	Internal physiology of live krill revealed using new aquaria techniques and mixed optical microscopy and optical coherence tomography (OCT) imaging techniques. Marine and Freshwater Behaviour and Physiology, 2015, 48, 455-466.	0.4	2
318	Airy Beams for Light-sheet Microscopy. Microscopy and Microanalysis, 2015, 21, 1723-1724.	0.2	2
319	Twisted Materials: A New Twist for Materials Science: The Formation of Chiral Structures Using the Angular Momentum of Light (Advanced Optical Materials 14/2019). Advanced Optical Materials, 2019, 7, 1970052.	3.6	2
320	Spectroscopy of Laser-cooled Ions. Journal of Modern Optics, 1994, 41, 1087-1098.	0.6	1
321	A compact high-performance extended-cavity diode laser at 635 nm. Journal of Modern Optics, 1999, 46, 1787-1791.	0.6	1
322	<title>Laguerre-Gaussian laser modes for biophotonics and micromanipulation</title>. , 2003, 5147, 48.		1
323	Optical guiding using Gaussian and Bessel light beams. , 2003, 5121, 68.		1
324	Continuous motion of interference patterns using the angular Doppler effect. , 2003, 5121, 98.		1

#	Article	IF	Citations
325	Biophotonics. Optics and Photonics News, 2004, 15, 19.	0.4	1
326	Sorting via injection of particle streams into an optical lattice. , 2005, , .		1
327	Real time observation of the ultrasound stimulated disintegration of optically trapped microbubbles in proximity to biological cells. , 2005, , .		1
328	Colloidal holography and crystal dislocations. , 2005, 5930, 320.		1
329	Shedding light on life. Physics World, 2005, 18, 35-37.	0.0	1
330	Optical conveyor belt based on Bessel beams. , 2005, , .		1
331	Non-diffracting beam synthesis used for optical trapping and delivery of sub-micron objects. , 2006, , .		1
332	Optically trapped and controlled microapertures for studies of spatial coherence in an arbitrary light field. Applied Physics Letters, 2007, 90, 261101.	1.5	1
333	Optical vortices: Optical manipulation to crystal dislocations. Physica C: Superconductivity and Its Applications, 2008, 468, 508-513.	0.6	1
334	Optical "snowblowing" of microparticles and cells in a microfluidc environment using Airy and parabolic wavepackets. , 2009, , .		1
335	Modulated Raman spectroscopy technique for real-time fluorescence rejection. , 2010, , .		1
336	Fabrication of polymer microlens at the apex of optical fiber. Proceedings of SPIE, 2010, , .	0.8	1
337	Femtosecond laser pulses for chemical-free embryonic and mesenchymal stem cell differentiation. , 2011, , .		1
338	Raman spectra of single cells with autofluorescence suppression by modulated wavelength excitation. Proceedings of SPIE, 2012, , .	0.8	1
339	Wavelength Modulated Raman Spectroscopy for Biomedical Applications. Biomedizinische Technik, 2012, 57, .	0.9	1
340	Single cell transfection by laser-induced breakdown of an optically trapped gold nanoparticle. , 2014, , .		1
341	Femtosecond optical injection of intact plant cells using a reconfigurable platform. , 2014, , .		1
342	Label-free haemogram using wavelength modulated Raman spectroscopy for identifying immune-cell subset. Proceedings of SPIE, 2014, , .	0.8	1

#	Article	IF	Citations
343	New directions in optical manipulation. , 2015, , .		1
344	Rotational dynamics and heating of trapped nanovaterite particles. , 2017, , .		1
345	Light-Sheet Fluorescence Microscopy With Structured Light. , 2019, , 477-501.		1
346	Reducing data acquisition for lightâ€sheet microscopy by extrapolation between imaged planes. Journal of Biophotonics, 2020, 13, e202000035.	1.1	1
347	Multimodal Imaging at Depth Using Innovations in Raman Spectroscopy and Optical Coherence Tomography. , 2020, , 537-550.		1
348	10.1063/1.3554415.1. , 2011, , .		1
349	An inverted light sheet microscope optimized for studies in neuroscience. , 2016, , .		1
350	Fluorescence background suppression in Raman spectroscopy. , 2010, , .		1
351	Can information Capacity be Increased with Orbital Angular Momentum?. , 2016, , .		1
352	Integrating sphere based speckle generation for wavelength determination and laser stabilization. , 2016, , .		1
353	TRAFIX: Imaging at depth with temporal focusing and single-pixel detection. , 2019, , .		1
354	Wide-field multiphoton imaging with TRAFIX. , 2019, , .		1
355	Optical analysis of homocysteine metabolites using vibrational spectroscopy. OSA Continuum, 2020, 3, 1958.	1.8	1
356	Asymmetric longitudinal optical binding force between two identical dielectric particles with electric and magnetic dipolar responses. Physical Review A, 2022, 106, .	1.0	1
357	Guiding atoms along hollow optical fibres: creating an atom hosepipe. Physics Education, 1998, 33, 316-319.	0.3	0
358	Optical trapping in a new light: rotation and advanced manipulation of microscopic objects. , 2003, 4969, 30.		0
359	Micromanipulation with Bessel beams: studies of angular momentum and reconstruction. , 2004, , .		0
360	Interference patterns for advanced optical micromanipulation. , 2004, , .		0

#	Article	IF	Citations
361	Tailored optical landscapes for biological and colloidal sciences. , 2004, , .		0
362	Optical guiding with continuous wave and femtosecond lasers. , 2004, , .		0
363	Rectifying transport of a mixture of Brownian particles on an asymmetric periodic optical potential. , 2004, , .		0
364	Optoelectronic integrated tweezers. , 2004, , .		0
365	Optically bound arrays of microscopic particles in one dimension. , 2004, 5514, 318.		0
366	Light-induced separation and flow of microscopic and biological particles. , 2005, 5736, 46.		0
367	Optical landscapes for biological and nanosciences: trapping in a new light. , 2005, 5736, 1.		0
368	Optically actuated form birefringent microfluidic components. , 2005, , .		0
369	Dual technique decoupled raman micro spectroscopy. , 2005, , .		0
370	Cell sorting in a static optical potential landscape. , 2005, 5930, 424.		0
371	White Light Takes Shape. Optics and Photonics News, 2006, 17, 37.	0.4	0
372	<title>Optical conveyor belt for delivery of sub-micron objects</title>. , 2006, , .		0
373	Enhanced particle guiding using supercontinuum radiation. , 2006, , .		0
374	Compact and efficient femtosecond lasers. , 2006, , .		0
375	Near-field optical manipulation with cavity enhanced evanescent fields. , 2006, 6131, 142.		0
376	Optical micromanipulation takes hold. , 2006, , .		0
377	Dielectric resonator: cavity-enhanced optical manipulation in the near field. , 2006, 6326, 74.		0
378	<title>How to use laser radiative and evanescent interference fields to control movement of the sub-micron objects</title>. , 2007, , .		0

#	Article	IF	Citations
379	Novel dual beam fiber traps using endlessly single-mode photonic crystal fiber. Proceedings of SPIE, 2008, , .	0.8	0
380	Stability and dynamics of self-arranged structures in longitudinal optical binding. Proceedings of SPIE, 2008, , .	0.8	0
381	Aerosol tweezing with a super-continuum laser beam. , 2008, , .		0
382	Laser beam interference and its applications in optical micromanipulation. Proceedings of SPIE, 2008, , .	0.8	0
383	One-dimensional long-range self-arranged optically bound structures. , 2008, , .		0
384	Optically bound chain of microparticles. , 2008, , .		0
385	Early identification of cervical neoplasia with Raman spectroscopy and advanced methods for biomedical applications. , 2008, , .		0
386	Transient transfection of mammalian cells using a violet diode laser. , 2009, , .		0
387	Photo-transfection of mammalian cells via femtosecond laser pulses. , 2009, , .		0
388	Dielectric enhanced nanoparticles for three-dimensional optical manipulation. Proceedings of SPIE, 2009, , .	0.8	0
389	Enhancement of the efficiency of femtosecond optical transfection. , 2010, , .		0
390	Flexible dual-beam geometry for advanced optical micromanipulation experiments. , 2010, , .		0
391	Fluorescence-free biochemical characterization of cells using modulated Raman spectroscopy. Proceedings of SPIE, 2010, , .	0.8	0
392	Optical Sculpting: Shaping the Future of Biophotonic. , 2010, , .		0
393	Innovative photonic micromanipulation tools: Light takes hold in Biophotonics. Journal of Biophotonics, 2010, 3, 183-183.	1.1	0
394	Advanced Studies of â€˜Non-Diffractingâ€™ Light Fields. , 2010, , .		0
395	Fluorescence-Free Biochemical Characterization of Cells Using Modulated Raman Spectroscopy. , 2010, , .		0
396	Formation of one-dimensional optically bound structures of polystyrene particles near the surface. Proceedings of SPIE, 2010, , .	0.8	0

#	Article	IF	Citations
397	Determination of optical forces in the proximity of a nanoantenna. Proceedings of SPIE, 2010, , .	0.8	0
398	In situ wavefront optimization: towards the ideal performance of a biophotonics system. Proceedings of SPIE, 2010, , .	0.8	0
399	Towards high-throughput automated targeted femtosecond laser-based transfection of adherent cells. Proceedings of SPIE, 2011, , .	0.8	0
400	Optical sorting of gold nanoparticles based on the red-shift of plasmon resonance. Proceedings of SPIE, 2012, , .	0.8	0
401	The role of spectral bandwidth in transverse optical binding. , 2012, , .		0
402	Multimode fibre as a light mode convertor: principles and applications. , 2012, , .		0
403	A multimodal holographic system for optical manipulation and injection of developing embryos. , 2012, , .		0
404	Manipulation and control of light in multimode fibres. , 2012, , .		0
405	Optical eigenmodes for imaging applications. , 2012, , .		0
406	Exploiting multimode waveguides for pure fibre based fluorescence imaging. , 2013, , .		0
407	High-throughput optical injection of mammalian cells using a non-diffracting beam in a microfluidic platform. , 2013, , .		0
408	Holographic approach for optical poration and trapping of developing embryos. , 2013, , .		0
409	Optical manipulation, beam-shaping and scanner-free bright-ï¬eld and dark-ï¬eld imaging via multimode optical ï¬bre. , 2013, , .		0
410	Development of a fiber based Raman probe compatible with interventional magnetic resonance imaging. , 2014, , .		0
411	Shaping the Future of Biophotonics: Imaging and Manipulation. , 2014, , .		0
412	Multi-mode fibre correction for applications in optomechanics using a digital micromirror device. , 2014, , .		0
413	Attenuation compensating Airy beams generated by using a digital micro-mirror device. , 2014, , .		0
414	Imaging the cellular response to transient shear stress using time-resolved digital holography. Proceedings of SPIE, 2014, , .	0.8	0

#	Article	IF	Citations
415	Combined information from Raman spectroscopy and optical coherence tomography for enhanced diagnostic accuracy in tissue discrimination. , 2014, , .		0
416	Introduction to the Issue on Nanobiophotonics. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 3-6.	1.9	0
417	Dynamics of Microparticles Trapped in a Perfect Vortex Beam. , 2014, , .		0
418	Sub-diffractive light confinement: A biological-based approach. , 2014, , .		0
419	New directions in light sheet microscopy. , 2015, , .		0
420	Fibre-based imaging: new challenges. , 2015, , .		0
421	Integrated 3D macro-trapping and light-sheet imaging system. , 2015, , .		0
422	A Compact Two Photon Light Sheet Microscope for Applications in Neuroscience. , 2016, , .		0
423	Optically Trapped Microscopic Particles in a Perfect Fractional Vortex Beam. , 2016, , .		0
424	Structured illumination microscopy as a diagnostic tool for nephrotic disease. , 2017, , .		0
425	Rapid imaging of mammalian brain slices with a compact light sheet fluorescent microscope. Proceedings of SPIE, 2017, , .	0.8	0
426	Dynamics of optically levitated microparticles in vacuum placed in 2D and 3D optical potentials possessing orbital angular momentum. , 2017, , .		0
427	Optical binding of two microparticles levitated in vacuum. , 2017, , .		0
428	Twisted polymeric microfiber formed by structured light illumination. Proceedings of SPIE, 2017, , .	0.8	0
429	Wavefront correction enables vibrational imaging of bacteria with multimode fibre probes. Proceedings of SPIE, 2017, , .	0.8	0
430	Probing neural tissue with airy light-sheet microscopy: investigation of imaging performance at depth within turbid media. , 2017, , .		0
431	Multimodal deep tissue imaging using Wavelength Modulated Spatially Offset Raman Spectroscopy and Optical Coherence Tomography. , 2018, , .		0
432	Speckle-based wavelength measurement at femtometer resolution using a multimode fibre. , 2018, , .		0

#	Article	IF	Citations
433	Numerical Comparison of Robustness of Multimode and Multicore Fibre Sensitivity against Fibre Bending. , 2019, , .		0
434	Photonics: 20/20 Vision. ACS Photonics, 2021, 8, 943-944.	3.2	0
435	Novel Methods for Cellular Transfection with Femtosecond Laser Pulses. , 2008, , .		0
436	Optically bound chain of microparticles. , 2009, , .		0
437	Optical Sculpting: Changing The Shape of Micromanipulation. , 2010, , .		0
438	Laser-induced Breakdown (LIB) of Optically Trapped Nanoparticles for Gene Transfection. , 2010, , .		0
439	Light Takes Shape for Biophotonics: New Directions in Trapping and Cell Transfection. , 2010, , .		0
440	High Throughput Photoporation of Mammalian Cells using Microfluidic Cell Delivery. , 2010, , .		0
441	High Throughput Photoporation of Mammalian Cells using Microfluidic Cell Delivery. , 2010, , .		0
442	SHAPING THE FUTURE OF NANOBIOPHOTONICS. , 2011, , .		0
443	Integration Methods for Raman Spectroscopy and Passive Sorting in Optofluidics. , 2011, , .		0
444	Optimal focusing In Situ: new routes for optical trapping and Biophotonics. , 2011, , .		0
445	Optical Sculpting: trapping through disorder. , 2011, , .		0
446	Shaped Light for Biophotonics. , 2012, , .		0
447	Fluorescence Suppression Using Modulated Wavelength Raman Spectroscopy for Tissue and Cell Analysis. , 2012, , .		0
448	Rotation induced cooling of an optically trapped microgyroscope in vacuum. , 2013, , .		0
449	Real-time optical eigenmode characterisation. , 2014, , .		0
450	Rotation induced cooling of an optically trapped microgyroscope in vacuum. , 2014, , .		0

#	Article	IF	Citations
451	Identification of Single Human Immune Cells with Wavelength Modulation Raman Spectroscopy. , 2016, , .		0
452	Wavelength detection at sub-femtometer resolution and application to laser stabilization. , 2016, , .		0
453	Optical vortex illumination to form polymeric twisted fiber. , 2017, , .		0
454	A biophotonics platform based on optical trapping of photonic membranes. , 2017, , .		0
455	Dynamics of a Microparticle Levitated in Vacuum by an Optical Vortex Beam. The Review of Laser Engineering, 2018, 46, 192.	0.0	0
456	Coherent oscillations of a birefringent microsphere in vacuum optical traps. , 2020, , .		0
457	New Directions in Sensing Using Raman Analysis on Paper and Microfluidic Platforms. Biological and Medical Physics Series, 2020, , 211-229.	0.3	0
458	Numerical comparison of robustness of shaped beam delivery through multimode and multicore fibre against fibre bending. , 2020, , .		0