Kishan Dholakia

List of Publications by Year
in descending order

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458 papers	28,984 citations	6613 79 h-index	5829 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.	27.8	1,279
2	Bessel beams: Diffraction in a new light. Contemporary Physics, 2005, 46, 15-28.	1.8	1,112
3	Optically mediated particle clearing using Airy wavepackets. Nature Photonics, 2008, 2, 675-678.	31.4	1,067
4	Mechanical equivalence of spin and orbital angular momentum of light:â€ƒan optical spanner. Optics Letters, 1997, 22, 52.	3.3	1,030
5	Simultaneous micromanipulation in multiple planes using a self-reconstructing light beam. Nature, 2002, 419, 145-147.	27.8	962
6	Controlled Rotation of Optically Trapped Microscopic Particles. Science, 2001, 292, 912-914.	12.6	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.	13.6	942
8	Shaping the future of manipulation. Nature Photonics, 2011, 5, 335-342.	31.4	848
9	Generation of high-order Bessel beams by use of an axicon. Optics Communications, 2000, 177, 297-301.	2.1	710
10	Light-sheet microscopy using an Airy beam. Nature Methods, 2014, 11, 541-544.	19.0	679
11	Optical micromanipulation using a Bessel light beam. Optics Communications, 2001, 197, 239-245.	2.1	531
12	Membrane disruption by optically controlled microbubble cavitation. Nature Physics, 2005, 1, 107-110.	16.7	501
13	Creation and Manipulation of Three-Dimensional Optically Trapped Structures. Science, 2002, 296, 1101-1103.	12.6	481
14	Exploiting multimode waveguides for pure fibre-based imaging. Nature Communications, 2012, 3, 1027.	12.8	450
15	Colloquium: Gripped by light: Optical binding. Reviews of Modern Physics, 2010, 82, 1767-1791.	45.6	449
16	In situ wavefront correction and its application to micromanipulation. Nature Photonics, 2010, 4, 388-394.	31.4	390
17	Optical micromanipulation. Chemical Society Reviews, 2008, 37, 42-55.	38.1	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.	2.5	348
20	Shaping the light transmission through a multimode optical fibre: complex transformation analysis and applications in biophotonics. Optics Express, 2011, 19, 18871.	3.4	292
21	Rotational Frequency Shift of a Light Beam. Physical Review Letters, 1998, 81, 4828-4830.	7.8	285
22	The production of multiringed Laguerreâ€“Gaussian modes by computer-generated holograms. Journal of Modern Optics, 1998, 45, 1231-1237.	1.3	269
23	Dynamics of microparticles trapped in a perfect vortex beam. Optics Letters, 2013, 38, 4919.	3.3	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.	2.5	254
25	Auto-focusing and self-healing of Pearcey beams. Optics Express, 2012, 20, 18955.	3.4	252
26	Laser-induced rotation and cooling of a trapped microgyroscope in vacuum. Nature Communications, 2013, 4, 2374.	12.8	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.	7.8	241
28	One-Dimensional Optically Bound Arrays of Microscopic Particles. Physical Review Letters, 2002, 89, 283901.	7.8	218
29	Optical vortex trap for resonant confinement of metal nanoparticles. Optics Express, 2008, 16, 4991.	3.4	213
30	Interfering Bessel beams for optical micromanipulation. Optics Letters, 2003, 28, 657.	3.3	212
31	Optical conveyor belt for delivery of submicron objects. Applied Physics Letters, 2005, 86, 174101.	3.3	194
32	Atom guiding along Laguerre-Gaussian and Bessel light beams. Applied Physics B: Lasers and Optics, 2000, 71, 549-554.	2.2	190
33	Femtosecond optical transfection of cells:viability and efficiency. Optics Express, 2006, 14, 7125.	3.4	185
34	Optical micromanipulation takes hold. Nano Today, 2006, 1, 18-27.	11.9	183
35	Applications of spatial light modulators in atom optics. Optics Express, 2003, 11, 158.	3.4	175
36	Dual beam fibre trap for Raman micro-spectroscopy of single cells. Optics Express, 2006, 14, 5779.	3.4	172

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37	Single cell optical transfection. Journal of the Royal Society Interface, 2010, 7, 863-871.	3.4	163
38	All-optical control of microfluidic components using form birefringence. Nature Materials, 2005, 4, 530-533.	27.5	161
39	Gaussian beams with very high orbital angular momentum. Optics Communications, 1997, 144, 210-213.	2.1	160
40	Femtosecond optical tweezers for in-situ control of two-photon fluorescence. Optics Express, 2004, 12, 3011.	3.4	152
41	Early detection of cervical neoplasia by Raman spectroscopy. International Journal of Cancer, 2007, 121, 2723-2728.	5.1	150
42	Tunable Bessel light modes: engineering the axial propagation. Optics Express, 2009, 17, 15558.	3.4	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.	1.5	135
45	Light beats the spread: â€œnonâ€diffractingâ€•beams. Laser and Photonics Reviews, 2010, 4, 529-547.	8.7	134
46	Optical sorting and detection of submicrometer objects in a motional standing wave. Physical Review B, 2006, 74, .	3.2	132
47	Optical levitation in a Bessel light beam. Applied Physics Letters, 2004, 85, 4001-4003.	3.3	131
48	Trapping in a Material World. ACS Photonics, 2016, 3, 719-736.	6.6	130
49	Trapping and manipulation of low-index particles in a two-dimensional interferometric optical trap. Optics Letters, 2001, 26, 863.	3.3	124
50	Bidirectional Optical Sorting of Gold Nanoparticles. Nano Letters, 2012, 12, 1923-1927.	9.1	124
51	High-order Laguerreâ€“Gaussian laser modes for studies of cold atoms. Optics Communications, 1998, 156, 300-306.	2.1	121
52	Three-dimensional arrays of optical bottle beams. Optics Communications, 2003, 225, 215-222.	2.1	119
53	Optical dipole traps and atomic waveguides based on Bessel light beams. Physical Review A, 2001, 63, .	2.5	118
54	Optical trapping of three-dimensional structures using dynamic holograms. Optics Express, 2003, 11, 3562.	3.4	118

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55	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. Nanophotonics, 2020, 10, 259-293.	6.0	118
56	Manipulation and filtration of low index particles with holographic Laguerre-Gaussian optical trap arrays. Optics Express, 2004, 12, 593.	3.4	117
57	Long-Range One-Dimensional Longitudinal Optical Binding. Physical Review Letters, 2008, 101, 143601.	7.8	116
58	Orbital angular momentum transfer in helical Mathieu beams. Optics Express, 2006, 14, 4182.	3.4	115
59	Optical tweezers with increased axial trapping efficiency. Journal of Modern Optics, 1998, 45, 1943-1949.	1.3	113
60	Construction and calibration of an optical trap on a fluorescence optical microscope. Nature Protocols, 2007, 2, 3226-3238.	12.0	113
61	Light forces the pace: optical manipulation for biophotonics. Journal of Biomedical Optics, 2010, 15, 041503.	2.6	110
62	In-fiber common-path optical coherence tomography using a conical-tip fiber. Optics Express, 2009, 17, 2375.	3.4	109
63	Online Fluorescence Suppression in Modulated Raman Spectroscopy. Analytical Chemistry, 2010, 82, 738-745.	6.5	106
64	Parametric down-conversion for light beams possessing orbital angular momentum. Physical Review A, 1999, 59, 3950-3952.	2.5	105
65	Optical deflection and sorting of microparticles in a near-field optical geometry. Optics Express, 2008, 16, 3712.	3.4	105
66	Experimental observation of optical vortex evolution in a Gaussian beam with an embedded fractional phase step. Optics Communications, 2004, 239, 129-135.	2.1	104
67	Propagation characteristics of Airy beams: dependence upon spatial coherence and wavelength. Optics Express, 2009, 17, 13236.	3.4	103
68	Fractionation of polydisperse colloid with acousto-optically generated potential energy landscapes. Optics Letters, 2007, 32, 1144.	3.3	99
69	Nanoshells for Surface-Enhanced Raman Spectroscopy in Eukaryotic Cells: Cellular Response and Sensor Development. ACS Nano, 2009, 3, 3613-3621.	14.6	97
70	Experimental Observation of Modulation Instability and Optical Spatial Soliton Arrays in Soft Condensed Matter. Physical Review Letters, 2007, 98, 203902.	7.8	95
71	Visualization of the birth of an optical vortex using diffraction from a triangular aperture. Optics Express, 2011, 19, 5760.	3.4	95
72	Light-induced cell separation in a tailored optical landscape. Applied Physics Letters, 2005, 87, 123901.	3.3	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.	5.9	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.	7.3	89
75	Revolving interference patterns for the rotation of optically trapped particles. Optics Communications, 2002, 201, 21-28.	2.1	88
76	Generation of multiple Bessel beams for a biophotonics workstation. Optics Express, 2008, 16, 14024.	3.4	88
77	Brownian Particle in an Optical Potential of the Washboard Type. Physical Review Letters, 2003, 91, 038101.	7.8	84
78	Photoporation and cell transfection using a violet diode laser. Optics Express, 2005, 13, 595.	3.4	84
79	Optical redistribution of microparticles and cells between microwells. Lab on A Chip, 2009, 9, 1334.	6.0	81
80	Transverse particle dynamics in a Bessel beam. Optics Express, 2007, 15, 13972.	3.4	80
81	Harnessing speckle for a sub-femtometre resolved broadband wavemeter and laser stabilization. Nature Communications, 2017, 8, 15610.	12.8	80
82	Nonlinear optical response of colloidal suspensions. Optics Express, 2009, 17, 10277.	3.4	79
83	Optimal algorithm for fluorescence suppression of modulated Raman spectroscopy. Optics Express, 2010, 18, 11382.	3.4	79
84	A compact Airy beam light sheet microscope with a tilted cylindrical lens. Biomedical Optics Express, 2014, 5, 3434.	2.9	78
85	Optical Eigenmodes; exploiting the quadratic nature of the light-matter interaction. Optics Express, 2011, 19, 933.	3.4	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.	2.9	77
87	Optically Anisotropic Colloids of Controllable Shape. Advanced Materials, 2005, 17, 680-684.	21.0	76
88	Light-sheet microscopy with attenuation-compensated propagation-invariant beams. Science Advances, 2018, 4, eaar4817.	10.3	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.	3.3	75
90	The resolution of optical traps created by Light Induced Dielectrophoresis (LIDEP). Optics Express, 2007, 15, 12619.	3.4	73

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91	Analysis of optical binding in one dimension. Applied Physics B: Lasers and Optics, 2006, 84, 149-156.	2.2	71
92	Visualization of optical binding of microparticles using a femtosecond fiber optical trap. Optics Express, 2006, 14, 3677.	3.4	69
93	Comparing acoustic and optical forces for biomedical research. Nature Reviews Physics, 2020, 2, 480-491.	26.6	69
94	White light propagation invariant beams. Optics Express, 2005, 13, 6657.	3.4	67
95	Femtosecond optical transfection of individual mammalian cells. Nature Protocols, 2013, 8, 1216-1233.	12.0	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.	2.1	66
97	Optical trapping for analytical biotechnology. Current Opinion in Biotechnology, 2012, 23, 16-21.	6.6	66
98	Optical trapping of NaYF4:Er3+,Yb3+ upconverting fluorescent nanoparticles. Nanoscale, 2013, 5, 12192.	5.6	66
99	Waveguide confined Raman spectroscopy for microfluidic interrogation. Lab on A Chip, 2011, 11, 1262.	6.0	65
100	Far field subwavelength focusing using optical eigenmodes. Applied Physics Letters, 2011, 98, .	3.3	65
101	Integrated monolithic optical manipulation. Lab on A Chip, 2006, 6, 1122.	6.0	61
102	Near-field optical micromanipulation with cavity enhanced evanescent waves. Applied Physics Letters, 2006, 88, 221116.	3.3	60
103	Experimental and theoretical determination of optical binding forces. Optics Express, 2010, 18, 25389.	3.4	60
104	Is it possible to create a perfect fractional vortex beam?. Optica, 2017, 4, 330.	9.3	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.	0.7	57
107	Enhanced operation of femtosecond lasers and applications in cell transfection. Journal of Biophotonics, 2008, 1, 183-199.	2.3	57
108	Modulated Raman spectroscopy for enhanced identification of bladder tumor cells in urine samples. Journal of Biomedical Optics, 2011, 16, 037002.	2.6	57

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109	Targeted optical injection of gold nanoparticles into single mammalian cells. Journal of Biophotonics, 2009, 2, 736-743.	2.3	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.	3.3	56
111	GPU accelerated toolbox for real-time beam-shaping in multimode fibres. Optics Express, 2014, 22, 2933.	3.4	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.	8.3	56
113	Optically guided neuronal growth at near infrared wavelengths. Optics Express, 2006, 14, 9786.	3.4	54
114	Effect of pulse temporal shape on optical trapping and impulse transfer using ultrashort pulsed lasers. Optics Express, 2010, 18, 7554.	3.4	53
115	Random super-prism wavelength meter. Optics Letters, 2014, 39, 96.	3.3	53
116	Ion Oscillation Frequencies in a Combined Trap. Journal of Modern Optics, 1992, 39, 305-316.	1.3	52
117	Optical guiding of microscopic particles in femtosecond and continuous wave Bessel light beams. Optics Express, 2004, 12, 2560.	3.4	52
118	Atom guiding along high order Laguerreâ€“Gaussian light beams formed by spatial light modulation. Journal of Modern Optics, 2006, 53, 547-556.	1.3	50
119	Cellular and Colloidal Separation Using Optical Forces. Methods in Cell Biology, 2007, 82, 467-495.	1.1	50
120	Guided neuronal growth using optical line traps. Optics Express, 2008, 16, 10507.	3.4	50
121	Modulated Raman Spectroscopy for Enhanced Cancer Diagnosis at the Cellular Level. Sensors, 2015, 15, 13680-13704.	3.8	50
122	Efficiency of second-harmonic generation with Bessel beams. Physical Review A, 1999, 60, 2438-2441.	2.5	49
123	Optical binding of two cooled micro-gyroscopes levitated in vacuum. Optica, 2018, 5, 910.	9.3	49
124	Application of dynamic diffractive optics for enhanced femtosecond laser based cell transfection. Journal of Biophotonics, 2010, 3, 696-705.	2.3	48
125	Fiber probe based microfluidic raman spectroscopy. Optics Express, 2010, 18, 7642.	3.4	48
126	Optical path clearing and enhanced transmission through colloidal suspensions. Optics Express, 2010, 18, 17130.	3.4	48

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127	Raman imaging through a single multimode fibre. Optics Express, 2017, 25, 13782.	3.4	48
128	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. Laser and Photonics Reviews, 2020, 14, 2000120.	8.7	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.	2.9	46
130	Multimode fibre: Light-sheet microscopy at the tip of a needle. Scientific Reports, 2015, 5, 18050.	3.3	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.	2.9	46
132	Fibre based cellular transfection. Optics Express, 2008, 16, 17007.	3.4	45
133	Simultaneous determination of the constituent azimuthal and radial mode indices for light fields possessing orbital angular momentum. Applied Physics Letters, 2012, 100, .	3.3	45
134	Overcoming the speckle correlation limit to achieve a fiber wavemeter with attometer resolution. Optics Letters, 2019, 44, 1367.	3.3	45
135	Picoliter Rheology of Gaseous Media Using a Rotating Optically Trapped Birefringent Microparticle. Analytical Chemistry, 2011, 83, 8855-8858.	6.5	43
136	Integrated single- and two-photon light sheet microscopy using accelerating beams. Scientific Reports, 2017, 7, 1435.	3.3	43
137	A dual beam photonic crystal fiber trap for microscopic particles. Applied Physics Letters, 2008, 93, 041110.	3.3	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.	2.5	42
139	Near infrared spectroscopic analysis of single malt Scotch whisky on an optofluidic chip. Optics Express, 2011, 19, 22982.	3.4	41
140	Three-photon light-sheet fluorescence microscopy. Optics Letters, 2018, 43, 5484.	3.3	41
141	Multimodal discrimination of immune cells using a combination of Raman spectroscopy and digital holographic microscopy. Scientific Reports, 2017, 7, 43631.	3.3	40
142	Optical hooks. Nature Photonics, 2019, 13, 229-230.	31.4	40
143	Guiding a cold atomic beam along a co-propagating and oblique hollow light guide. Optics Communications, 2002, 214, 247-254.	2.1	39
144	Spatially optimized gene transfection by laser-induced breakdown of optically trapped nanoparticles. Applied Physics Letters, 2011, 98, .	3.3	39

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145	Rotational Dynamics and Heating of Trapped Nanovaterite Particles. ACS Nano, 2016, 10, 11505-11510.	14.6	39
146	Wide-field multiphoton imaging through scattering media without correction. Science Advances, 2018, 4, eaau1338.	10.3	39
147	Optical trapping with planar silicon metalenses. Optics Letters, 2018, 43, 3224.	3.3	39
148	Is there an optimal basis to maximise optical information transfer?. Scientific Reports, 2016, 6, 22821.	3.3	38
149	Exploring the Limit of Multiplexed Near-Field Optical Trapping. ACS Photonics, 2021, 8, 2060-2066.	6.6	38
150	Characterisation of an extended cavity violet diode laser. Optics Communications, 2000, 175, 185-188.	2.1	37
151	Phototransfection of mammalian cells using femtosecond laser pulses: optimization and applicability to stem cell differentiation. Journal of Biomedical Optics, 2010, 15, 041507.	2.6	37
152	Quantitative phase study of the dynamic cellular response in femtosecond laser photoporation. Biomedical Optics Express, 2010, 1, 414.	2.9	37
153	Enhancement of optical forces using slow light in a photonic crystal waveguide. Optica, 2015, 2, 816.	9.3	37
154	Moving interference patterns created using the angular Doppler-effect. Optics Express, 2002, 10, 844.	3.4	36
155	Raman-Activated Cell Counting for Profiling Carbon Dioxide Fixing Microorganisms. Journal of Physical Chemistry A, 2012, 116, 6560-6563.	2.5	36
156	Biologically enabled sub-diffractive focusing. Optics Express, 2014, 22, 27214.	3.4	36
157	Optical eigenmode imaging. Physical Review A, 2011, 84, .	2.5	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.	2.1	34
159	Optical trapping and spectral analysis of aerosols with a supercontiuum laser source. Optics Express, 2008, 16, 7655.	3.4	33
160	Optical injection of mammalian cells using a microfluidic platform. Biomedical Optics Express, 2010, 1, 527.	2.9	33
161	High-throughput optical injection of mammalian cells using a Bessel light beam. Lab on A Chip, 2012, 12, 4816.	6.0	33
162	Orbital-angular-momentum transfer to optically levitated microparticles in vacuum. Physical Review A, 2016, 94, .	2.5	33

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163	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	6.6	33
164	Light sheet fluorescence microscopy for neuroscience. Journal of Neuroscience Methods, 2019, 319, 16-27.	2.5	33
165	Bethâ€™s experiment using optical tweezers. American Journal of Physics, 2001, 69, 271-276.	0.7	32
166	Laser-induced breakdown of an optically trapped gold nanoparticle for single cell transfection. Optics Letters, 2013, 38, 3402.	3.3	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.	2.5	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.	2.9	30
170	Wavefront corrected light sheet microscopy in turbid media. Applied Physics Letters, 2012, 100, .	3.3	30
171	Creating and probing of a perfect vortex in situ with an optically trapped particle. Optical Review, 2015, 22, 162-165.	2.0	30
172	An Organic Vortex Laser. ACS Nano, 2018, 12, 2389-2394.	14.6	30
173	Coherent oscillations of a levitated birefringent microsphere in vacuum driven by nonconservative rotation-translation coupling. Science Advances, 2020, 6, eaaz9858.	10.3	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.	3.4	29
176	Optical detection and grading of lung neoplasia by Raman microspectroscopy. International Journal of Cancer, 2009, 124, 376-380.	5.1	29
177	Integrated holographic system for all-optical manipulation of developing embryos. Biomedical Optics Express, 2011, 2, 1564.	2.9	29
178	Optical micromanipulation using supercontinuum Laguerre-Gaussian and Gaussian beams. Optics Express, 2008, 16, 10117.	3.4	28
179	Generation of attenuation-compensating Airy beams. Optics Letters, 2014, 39, 4950.	3.3	28
180	Visualization of podocyte substructure with structured illumination microscopy (SIM): a new approach to nephrotic disease. Biomedical Optics Express, 2016, 7, 302.	2.9	28

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181	Optical manipulation: advances for biophotonics in the 21st century. Journal of Biomedical Optics, 2021, 26, .	2.6	28
182	Integrated optical transfection system using a microlens fiber combined with microfluidic gene delivery. Biomedical Optics Express, 2010, 1, 694.	2.9	27
183	Fast targeted gene transfection and optogenetic modification of single neurons using femtosecond laser irradiation. Scientific Reports, 2013, 3, 3281.	3.3	27
184	A polarisation spectrometer locked diode laser for trapping cold atoms. Optics Communications, 1999, 170, 79-84.	2.1	26
185	Cavity-enhanced optical bottle beam as a mechanical amplifier. Physical Review A, 2002, 66, .	2.5	25
186	Imaging in optical micromanipulation using two-photon excitation. New Journal of Physics, 2004, 6, 136-136.	2.9	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.	2.9	25
188	Fast volume-scanning light sheet microscopy reveals transient neuronal events. Biomedical Optics Express, 2018, 9, 2154.	2.9	25
189	The Temperature of an Optically Trapped, Rotating Microparticle. ACS Photonics, 2018, 5, 3772-3778.	6.6	25
190	Light sheet microscopy with acoustic sample confinement. Nature Communications, 2019, 10, 669.	12.8	25
191	Rapid broadband characterization of scattering medium using hyperspectral imaging. Optica, 2019, 6, 274.	9.3	25
192	Ion dynamics in perturbed quadrupole ion traps. Physical Review A, 1998, 57, 1944-1956.	2.5	24
193	Optical chromatography using a photonic crystal fiber with on-chip fluorescence excitation. Optics Express, 2010, 18, 6396.	3.4	24
194	Rotation of two trapped microparticles in vacuum: observation of optically mediated parametric resonances. Optics Letters, 2015, 40, 4751.	3.3	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.	3.3	24
196	Real-time monitoring of live mycobacteria with a microfluidic acoustic-Raman platform. Communications Biology, 2020, 3, 236.	4.4	24
197	Spatial transformation of Laguerre-Gaussian laser modes. Journal of Modern Optics, 2001, 48, 783-787.	1.3	24
198	Depthâ€resolved multimodal imaging: Wavelength modulated spatially offset Raman spectroscopy with optical coherence tomography. Journal of Biophotonics, 2018, 11, e201700129.	2.3	23

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199	Preface: Optical tweezers in a new light. Journal of Modern Optics, 2003, 50, 1501-1507.	1.3	23
200	Femtometer-resolved simultaneous measurement of multiple laser wavelengths in a speckle wavemeter. Optics Letters, 2020, 45, 1926.	3.3	23
201	Classification of Raman spectra of single cells with autofluorescence suppression by wavelength modulated excitation. Analytical Methods, 2013, 5, 4608.	2.7	22
202	A Raman spectroscopy bioâ€sensor for tissue discrimination in surgical robotics. Journal of Biophotonics, 2014, 7, 103-109.	2.3	22
203	Nanostructural Diversity of Synapses in the Mammalian Spinal Cord. Scientific Reports, 2020, 10, 8189.	3.3	22
204	Optical tweezers in a new light. Journal of Modern Optics, 2003, 50, 1501-1507.	1.3	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.	3.3	21
207	Atom Hosepipes. Contemporary Physics, 1998, 39, 351-369.	1.8	20
208	Optoelectronic tweezers. Nature Materials, 2005, 4, 579-580.	27.5	20
209	Enhanced optical guiding of colloidal particles using a supercontinuum light source. Optics Express, 2006, 14, 5792.	3.4	20
210	Passive optical separation within a 'nondiffracting' light beam. Journal of Biomedical Optics, 2007, 12, 054017.	2.6	20
211	Automated laser guidance of neuronal growth cones using a spatial light modulator. Journal of Biophotonics, 2009, 2, 682-692.	2.3	20
212	Enhanced bioanalyte detection in waveguide confined Raman spectroscopy using wavelength modulation. Journal of Biophotonics, 2011, 4, 514-518.	2.3	20
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