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	Probing Vibrational Strong Coupling of Molecules with Wavelengthâ€Modulated Raman Spectroscopy. Advanced Optical Materials, 2022, 10, .	3.6	10
2	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
3	Measurement of Variations in Gas Refractive Index with 10^{â€“9} Resolution Using Laser Speckle. ACS Photonics, 2022, 9, 830-836.	3.2	6
4	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
5	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
6	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
7	Asymmetric longitudinal optical binding force between two identical dielectric particles with electric and magnetic dipolar responses. Physical Review A, 2022, 106, .	1.0	1
8	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
9	Transverse optical binding for a dual dipolar dielectric nanoparticle dimer. Physical Review A, 2021, 103, .	1.0	3
10	Optical Forces and Torques on Eccentric Nanoscale Coreâ€“Shell Particles. ACS Photonics, 2021, 8, 1103-1111.	3.2	11
11	BPM-Matlab: an open-source optical propagation simulation tool in MATLAB. Optics Express, 2021, 29, 11819.	1.7	17
12	Emergent physics-informed design of deep learning for microscopy. JPhys Photonics, 2021, 3, 021003.	2.2	9
13	Photonics: 20/20 Vision. ACS Photonics, 2021, 8, 943-944.	3.2	0
14	Optical manipulation of a dielectric particle along polygonal closed-loop geometries within a single water droplet. Scientific Reports, 2021, 11, 12690.	1.6	6
15	Optical manipulation: advances for biophotonics in the 21st century. Journal of Biomedical Optics, 2021, 26, .	1.4	28
16	Wavelength sensitivity of the speckle patterns produced by an integrating sphere. JPhys Photonics, 2021, 3, 035005.	2.2	12
17	Exploring the Limit of Multiplexed Near-Field Optical Trapping. ACS Photonics, 2021, 8, 2060-2066.	3.2	38
18	Polarization and Orbital Angular Momentum of Light in Biomedical Applications: feature issue introduction. Biomedical Optics Express, 2021, 12, 6255.	1.5	14

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19	Does artificial intelligence have a role in the IVF clinic?. Reproduction and Fertility, 2021, 2, C29-C34.	0.6	15
20	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
21	Stochastic Hopf bifurcations in vacuum optical tweezers. Physical Review A, 2021, 104, .	1.0	7
22	High speed determination of laser wavelength using PoincarÃ© descriptors of speckle. Optics Communications, 2020, 459, 124906.	1.0	10
23	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
24	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. Laser and Photonics Reviews, 2020, 14, 2000120.	4.4	47
25	Extended Kalman Filtering Projection Method to Reduce the 3ÏƒNoise Value of Optical Biosensors. ACS Sensors, 2020, 5, 3474-3482.	4.0	14
26	Through-bottle whisky sensing and classification using Raman spectroscopy in an axicon-based backscattering configuration. Analytical Methods, 2020, 12, 4572-4578.	1.3	8
27	Comparing acoustic and optical forces for biomedical research. Nature Reviews Physics, 2020, 2, 480-491.	11.9	69
28	Microscale diamond protection for a ZnO coated fiber optic sensor. Scientific Reports, 2020, 10, 19141.	1.6	7
29	Multi-photon attenuation-compensated light-sheet fluorescence microscopy. Scientific Reports, 2020, 10, 8090.	1.6	4
30	Real-time monitoring of live mycobacteria with a microfluidic acoustic-Raman platform. Communications Biology, 2020, 3, 236.	2.0	24
31	Nanostructural Diversity of Synapses in the Mammalian Spinal Cord. Scientific Reports, 2020, 10, 8189.	1.6	22
32	Coherent oscillations of a levitated birefringent microsphere in vacuum driven by nonconservative rotation-translation coupling. Science Advances, 2020, 6, eaaz9858.	4.7	30
33	Reducing data acquisition for lightâ€sheet microscopy by extrapolation between imaged planes. Journal of Biophotonics, 2020, 13, e202000035.	1.1	1
34	Multimodal Imaging at Depth Using Innovations in Raman Spectroscopy and Optical Coherence Tomography. , 2020, , 537-550.		1
35	Twisted mass transport enabled by the angular momentum of light. Journal of Nanophotonics, 2020, 14, 1.	0.4	15
36	Femtometer-resolved simultaneous measurement of multiple laser wavelengths in a speckle wavemeter. Optics Letters, 2020, 45, 1926.	1.7	23

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37	Photopolymerization with high-order Bessel light beams. Optics Letters, 2020, 45, 4080.	1.7	19
38	Widefield light sheet microscopy using an Airy beam combined with deep-learning super-resolution. OSA Continuum, 2020, 3, 1068.	1.8	13
39	Speckle-based determination of the polarisation state of single and multiple laser beams. OSA Continuum, 2020, 3, 1302.	1.8	5
40	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. Nanophotonics, 2020, 10, 259-293.	2.9	118
41	Coherent oscillations of a birefringent microsphere in vacuum optical traps. , 2020, , .		0
42	New Directions in Sensing Using Raman Analysis on Paper and Microfluidic Platforms. Biological and Medical Physics Series, 2020, , 211-229.	0.3	0
43	Numerical comparison of robustness of shaped beam delivery through multimode and multicore fibre against fibre bending. , 2020, , .		0
44	Optical analysis of homocysteine metabolites using vibrational spectroscopy. OSA Continuum, 2020, 3, 1958.	1.8	1
45	Is laser repetition rate important for two-photon light sheet microscopy?. OSA Continuum, 2020, 3, 2935.	1.8	4
46	Optical manipulation: a step change for biomedical science. Contemporary Physics, 2020, 61, 277-294.	0.8	7
47	Light sheet fluorescence microscopy for neuroscience. Journal of Neuroscience Methods, 2019, 319, 16-27.	1.3	33
48	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
49	Numerical Comparison of Robustness of Multimode and Multicore Fibre Sensitivity against Fibre Bending. , 2019, , .		0
50	Light-Sheet Fluorescence Microscopy With Structured Light. , 2019, , 477-501.		1
51	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
52	Optical hooks. Nature Photonics, 2019, 13, 229-230.	15.6	40
53	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
54	Light sheet microscopy with acoustic sample confinement. Nature Communications, 2019, 10, 669.	5.8	25

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55	Label-free optical hemogram of granulocytes enhanced by artificial neural networks. Optics Express, 2019, 27, 13706.	1.7	15
56	Overcoming the speckle correlation limit to achieve a fiber wavemeter with attometer resolution. Optics Letters, 2019, 44, 1367.	1.7	45
57	Optimal compressive multiphoton imaging at depth using single-pixel detection. Optics Letters, 2019, 44, 4981.	1.7	20
58	Rapid broadband characterization of scattering medium using hyperspectral imaging. Optica, 2019, 6, 274.	4.8	25
59	TRAFIX: Imaging at depth with temporal focusing and single-pixel detection. , 2019, , .		1
60	Wide-field multiphoton imaging with TRAFIX. , 2019, , .		1
61	Light-sheet microscopy with attenuation-compensated propagation-invariant beams. Science Advances, 2018, 4, eaar4817.	4.7	76
62	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
63	Detecting Phenotypically Resistant Mycobacterium tuberculosis Using Wavelength Modulated Raman Spectroscopy. Methods in Molecular Biology, 2018, 1736, 41-50.	0.4	7
64	An Organic Vortex Laser. ACS Nano, 2018, 12, 2389-2394.	7.3	30
65	Depthâ€resolved multimodal imaging: Wavelength modulated spatially offset Raman spectroscopy with optical coherence tomography. Journal of Biophotonics, 2018, 11, e201700129.	1.1	23
66	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	3.2	33
67	Multimodal deep tissue imaging using Wavelength Modulated Spatially Offset Raman Spectroscopy and Optical Coherence Tomography. , 2018, , .		0
68	Wide-field multiphoton imaging through scattering media without correction. Science Advances, 2018, 4, eaau1338.	4.7	39
69	Fast volume-scanning light sheet microscopy reveals transient neuronal events. Biomedical Optics Express, 2018, 9, 2154.	1.5	25
70	Optical binding of two cooled micro-gyroscopes levitated in vacuum. Optica, 2018, 5, 910.	4.8	49
71	Optical trapping with planar silicon metalenses. Optics Letters, 2018, 43, 3224.	1.7	39
72	Speckle-based wavelength measurement at femtometer resolution using a multimode fibre. , 2018, , .		0

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73	The Temperature of an Optically Trapped, Rotating Microparticle. ACS Photonics, 2018, 5, 3772-3778.	3.2	25
74	Three-photon light-sheet fluorescence microscopy. Optics Letters, 2018, 43, 5484.	1.7	41
75	Dynamics of a Microparticle Levitated in Vacuum by an Optical Vortex Beam. The Review of Laser Engineering, 2018, 46, 192.	0.0	0
76	Structured illumination microscopy as a diagnostic tool for nephrotic disease. , 2017, , .		0
77	Multimodal discrimination of immune cells using a combination of Raman spectroscopy and digital holographic microscopy. Scientific Reports, 2017, 7, 43631.	1.6	40
78	Rapid imaging of mammalian brain slices with a compact light sheet fluorescent microscope. Proceedings of SPIE, 2017, , .	0.8	0
79	Dynamics of optically levitated microparticles in vacuum placed in 2D and 3D optical potentials possessing orbital angular momentum. , 2017, , .		0
80	Optical binding of two microparticles levitated in vacuum. , 2017, , .		0
81	Twisted polymeric microfiber formed by structured light illumination. Proceedings of SPIE, 2017, , .	0.8	0
82	Rotational dynamics and heating of trapped nanovaterite particles. , 2017, , .		1
83	Wavefront correction enables vibrational imaging of bacteria with multimode fibre probes. Proceedings of SPIE, 2017, , .	0.8	0
84	Probing neural tissue with airy light-sheet microscopy: investigation of imaging performance at depth within turbid media. , 2017, , .		0
85	Modal beam splitter: determination of the transversal components of an electromagnetic light field. Scientific Reports, 2017, 7, 9139.	1.6	7
86	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
87	Integrated single- and two-photon light sheet microscopy using accelerating beams. Scientific Reports, 2017, 7, 1435.	1.6	43
88	Harnessing speckle for a sub-femtometre resolved broadband wavemeter and laser stabilization. Nature Communications, 2017, 8, 15610.	5.8	80
89	Multimode fibre based imaging for optically cleared samples. Biomedical Optics Express, 2017, 8, 5179.	1.5	5
90	Raman imaging through a single multimode fibre. Optics Express, 2017, 25, 13782.	1.7	48

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91	Is it possible to create a perfect fractional vortex beam?. Optica, 2017, 4, 330.	4.8	60
92	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
93	Optical vortex illumination to form polymeric twisted fiber. , 2017, , .		0
94	A biophotonics platform based on optical trapping of photonic membranes. , 2017, , .		0
95	A Compact Two Photon Light Sheet Microscope for Applications in Neuroscience. , 2016, , .		0
96	Optically Trapped Microscopic Particles in a Perfect Fractional Vortex Beam. , 2016, , .		0
97	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
98	Is there an optimal basis to maximise optical information transfer?. Scientific Reports, 2016, 6, 22821.	1.6	38
99	A compact light-sheet microscope for the study of the mammalian central nervous system. Scientific Reports, 2016, 6, 26317.	1.6	16
100	Rotational Dynamics and Heating of Trapped Nanovaterite Particles. ACS Nano, 2016, 10, 11505-11510.	7.3	39
101	Trapping in a Material World. ACS Photonics, 2016, 3, 719-736.	3.2	130
102	Visualization of podocyte substructure with structured illumination microscopy (SIM): a new approach to nephrotic disease. Biomedical Optics Express, 2016, 7, 302.	1.5	28
103	Measuring and structuring the spatial coherence length of organic lightâ€emitting diodes. Laser and Photonics Reviews, 2016, 10, 82-90.	4.4	12
104	Optical Spectroscopic Analysis for the Discrimination of Extra-Virgin Olive Oil. Applied Spectroscopy, 2016, 70, 1872-1882.	1.2	13
105	Orbital-angular-momentum transfer to optically levitated microparticles in vacuum. Physical Review A, 2016, 94, .	1.0	33
106	An inverted light sheet microscope optimized for studies in neuroscience. , 2016, , .		1
107	Identification of Single Human Immune Cells with Wavelength Modulation Raman Spectroscopy. , 2016, , .		0
108	Wavelength detection at sub-femtometer resolution and application to laser stabilization. , 2016, , .		0

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109	Can information Capacity be Increased with Orbital Angular Momentum?. , 2016, , .		1
110	Integrating sphere based speckle generation for wavelength determination and laser stabilization. , 2016, , .		1
111	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
112	New directions in optical manipulation. , 2015, , .		1
113	New directions in light sheet microscopy. , 2015, , .		0
114	Multimode fibre: Light-sheet microscopy at the tip of a needle. Scientific Reports, 2015, 5, 18050.	1.6	46
115	Airy Beams for Light-sheet Microscopy. Microscopy and Microanalysis, 2015, 21, 1723-1724.	0.2	2
116	Modulated Raman Spectroscopy for Enhanced Cancer Diagnosis at the Cellular Level. Sensors, 2015, 15, 13680-13704.	2.1	50
117	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
118	Quantitative Detection of Pharmaceuticals Using a Combination of Paper Microfluidics and Wavelength Modulated Raman Spectroscopy. PLoS ONE, 2015, 10, e0123334.	1.1	13
119	Wide-field three-dimensional optical imaging using temporal focusing for holographically trapped microparticles. Optics Letters, 2015, 40, 4847.	1.7	16
120	Rotation of two trapped microparticles in vacuum: observation of optically mediated parametric resonances. Optics Letters, 2015, 40, 4751.	1.7	24
121	Fibre-based imaging: new challenges. , 2015, , .		0
122	Creating and probing of a perfect vortex in situ with an optically trapped particle. Optical Review, 2015, 22, 162-165.	1.2	30
123	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
124	Macro-optical trapping for sample confinement in light sheet microscopy. Biomedical Optics Express, 2015, 6, 2778.	1.5	19
125	Enhancement of optical forces using slow light in a photonic crystal waveguide. Optica, 2015, 2, 816.	4.8	37
126	Integrated 3D macro-trapping and light-sheet imaging system. , 2015, , .		0

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127	Enhanced Optical Manipulation of Cells Using Antireflection Coated Microparticles. ACS Photonics, 2015, 2, 1403-1409.	3.2	8
128	A compact Airy beam light sheet microscope with a tilted cylindrical lens. Biomedical Optics Express, 2014, 5, 3434.	1.5	78
129	Single cell transfection by laser-induced breakdown of an optically trapped gold nanoparticle. , 2014, , .		1
130	Gold nanorod assisted intracellular optical manipulation of silica microspheres. Optics Express, 2014, 22, 19735.	1.7	7
131	Development of a fiber based Raman probe compatible with interventional magnetic resonance imaging. , 2014, , .		0
132	Shaping the Future of Biophotonics: Imaging and Manipulation. , 2014, , .		0
133	Multi-mode fibre correction for applications in optomechanics using a digital micromirror device. , 2014, , .		0
134	Biologically enabled sub-diffractive focusing. Optics Express, 2014, 22, 27214.	1.7	36
135	Nonredundant Raman imaging using optical eigenmodes. Optica, 2014, 1, 257.	4.8	20
136	Attenuation compensating Airy beams generated by using a digital micro-mirror device. , 2014, , .		0
137	Femtosecond optical injection of intact plant cells using a reconfigurable platform. , 2014, , .		1
138	Optical trapping with a perfect vortex beam. Proceedings of SPIE, 2014, , .	0.8	18
139	Imaging the cellular response to transient shear stress using time-resolved digital holography. Proceedings of SPIE, 2014, , .	0.8	0
140	Combined information from Raman spectroscopy and optical coherence tomography for enhanced diagnostic accuracy in tissue discrimination. , 2014, , .		0
141	Label-free haemogram using wavelength modulated Raman spectroscopy for identifying immune-cell subset. Proceedings of SPIE, 2014, , .	0.8	1
142	Light-sheet microscopy using an Airy beam. Nature Methods, 2014, 11, 541-544.	9.0	679
143	GPU accelerated toolbox for real-time beam-shaping in multimode fibres. Optics Express, 2014, 22, 2933.	1.7	56
144	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

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145	Introduction to the Issue on Nanobiophotonics. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 3-6.	1.9	0
146	Generation of attenuation-compensating Airy beams. Optics Letters, 2014, 39, 4950.	1.7	28
147	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
148	Random super-prism wavelength meter. Optics Letters, 2014, 39, 96.	1.7	53
149	Dynamics of Microparticles Trapped in a Perfect Vortex Beam. , 2014, , .		0
150	A Raman spectroscopy bioâ€sensor for tissue discrimination in surgical robotics. Journal of Biophotonics, 2014, 7, 103-109.	1.1	22
151	Sub-diffractive light confinement: A biological-based approach. , 2014, , .		0
152	The Application of Optical Coherence Tomography to Image Subsurface Tissue Structure of Antarctic Krill Euphausia superba. PLoS ONE, 2014, 9, e110367.	1.1	7
153	Real-time optical eigenmode characterisation. , 2014, , .		0
154	Rotation induced cooling of an optically trapped microgyroscope in vacuum. , 2014, , .		0
155	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
156	Laser-induced rotation and cooling of a trapped microgyroscope in vacuum. Nature Communications, 2013, 4, 2374.	5.8	251
157	Fast targeted gene transfection and optogenetic modification of single neurons using femtosecond laser irradiation. Scientific Reports, 2013, 3, 3281.	1.6	27
158	Optical trapping of NaYF4:Er3+,Yb3+ upconverting fluorescent nanoparticles. Nanoscale, 2013, 5, 12192.	2.8	66
159	Classification of Raman spectra of single cells with autofluorescence suppression by wavelength modulated excitation. Analytical Methods, 2013, 5, 4608.	1.3	22
160	Coherent control of plasmonic nanoantennas using optical eigenmodes. Scientific Reports, 2013, 3, 1808.	1.6	21
161	Laser-induced breakdown of an optically trapped gold nanoparticle for single cell transfection. Optics Letters, 2013, 38, 3402.	1.7	32
162	Wavelength modulated surface enhanced (resonance) Raman scattering for background-free detection. Analyst, The, 2013, 138, 2816.	1.7	8

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163	Exploiting multimode waveguides for pure fibre based fluorescence imaging. , 2013, , .		0
164	Femtosecond optical transfection of individual mammalian cells. Nature Protocols, 2013, 8, 1216-1233.	5.5	67
165	Dynamics of microparticles trapped in a perfect vortex beam. Optics Letters, 2013, 38, 4919.	1.7	263
166	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
167	Enhanced cell transfection using subwavelength focused optical eigenmode beams [Invited]. Photonics Research, 2013, 1, 42.	3.4	9
168	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
169	High-throughput optical injection of mammalian cells using a non-diffracting beam in a microfluidic platform. , 2013, , .		0
170	Holographic approach for optical poration and trapping of developing embryos. , 2013, , .		0
171	Optical manipulation, beam-shaping and scanner-free bright-ï¬eld and dark-ï¬eld imaging via multimode optical ï¬bre. , 2013, , .		0
172	Optimisation of Wavelength Modulated Raman Spectroscopy: Towards High Throughput Cell Screening. PLoS ONE, 2013, 8, e67211.	1.1	11
173	Femtosecond Optoinjection of Intact Tobacco BY-2 Cells Using a Reconfigurable Photoporation Platform. PLoS ONE, 2013, 8, e79235.	1.1	11
174	Rotation induced cooling of an optically trapped microgyroscope in vacuum. , 2013, , .		0
175	Tissue surface as the reference arm in Fourier domain optical coherence tomography. Journal of Biomedical Optics, 2012, 17, 071305.	1.4	10
176	Raman spectra of single cells with autofluorescence suppression by modulated wavelength excitation. Proceedings of SPIE, 2012, , .	0.8	1
177	Optical sorting of gold nanoparticles based on the red-shift of plasmon resonance. Proceedings of SPIE, 2012, , .	0.8	0
178	Auto-focusing and self-healing of Pearcey beams. Optics Express, 2012, 20, 18955.	1.7	252
179	An interacting dipole model to explore broadband transverse optical binding. Journal of Physics Condensed Matter, 2012, 24, 464117.	0.7	8
180	Exploiting multimode waveguides for pure fibre-based imaging. Nature Communications, 2012, 3, 1027.	5.8	450

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181	Resonance enhanced optical manipulation: the push and pull of light. , 2012, , .		3
182	The role of spectral bandwidth in transverse optical binding. , 2012, , .		0
183	Multimode fibre as a light mode convertor: principles and applications. , 2012, , .		0
184	A multimodal holographic system for optical manipulation and injection of developing embryos. , 2012, , .		0
185	Exploring the ultrashort pulse laser parameter space for membrane permeabilisation in mammalian cells. Scientific Reports, 2012, 2, 858.	1.6	15
186	Manipulation and control of light in multimode fibres. , 2012, , .		0
187	Etaloning, fluorescence and ambient light suppression by modulated wavelength Raman spectroscopy. Biomedical Spectroscopy and Imaging, 2012, 1, 383-389.	1.2	21
188	Wavelength Modulated Raman Spectroscopy for Biomedical Applications. Biomedizinische Technik, 2012, 57, .	0.9	1
189	Microfluidic Raman Spectroscopy for Bio-chemical Sensing and Analysis. Springer Series on Chemical Sensors and Biosensors, 2012, , 247-268.	0.5	6
190	Raman-Activated Cell Counting for Profiling Carbon Dioxide Fixing Microorganisms. Journal of Physical Chemistry A, 2012, 116, 6560-6563.	1.1	36
191	Optical eigenmodes for imaging applications. , 2012, , .		0
192	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
193	High-throughput optical injection of mammalian cells using a Bessel light beam. Lab on A Chip, 2012, 12, 4816.	3.1	33
194	Wavefront corrected light sheet microscopy in turbid media. Applied Physics Letters, 2012, 100, .	1.5	30
195	Willin/FRMD6 expression activates the Hippo signaling pathway kinases in mammals and antagonizes oncogenic YAP. Oncogene, 2012, 31, 238-250.	2.6	93
196	Bidirectional Optical Sorting of Gold Nanoparticles. Nano Letters, 2012, 12, 1923-1927.	4.5	124
197	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
198	Fluorescence suppression using wavelength modulated Raman spectroscopy in fiber-probe-based tissue analysis. Journal of Biomedical Optics, 2012, 17, 0770061.	1.4	19

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199	Optical trapping for analytical biotechnology. Current Opinion in Biotechnology, 2012, 23, 16-21.	3.3	66
200	Multimodal biophotonic workstation for live cell analysis. Journal of Biophotonics, 2012, 5, 9-13.	1.1	19
201	Shaped Light for Biophotonics. , 2012, , .		0
202	Fluorescence Suppression Using Modulated Wavelength Raman Spectroscopy for Tissue and Cell Analysis. , 2012, , .		0
203	Waveguide confined Raman spectroscopy for microfluidic interrogation. Lab on A Chip, 2011, 11, 1262.	3.1	65
204	Picoliter Rheology of Gaseous Media Using a Rotating Optically Trapped Birefringent Microparticle. Analytical Chemistry, 2011, 83, 8855-8858.	3.2	43
205	Far field subwavelength focusing using optical eigenmodes. Applied Physics Letters, 2011, 98, .	1.5	65
206	Modulated Raman spectroscopy for enhanced identification of bladder tumor cells in urine samples. Journal of Biomedical Optics, 2011, 16, 037002.	1.4	57
207	Integrated holographic system for all-optical manipulation of developing embryos. Biomedical Optics Express, 2011, 2, 1564.	1.5	29
208	Optical Eigenmodes; exploiting the quadratic nature of the light-matter interaction. Optics Express, 2011, 19, 933.	1.7	77
209	Visualization of the birth of an optical vortex using diffraction from a triangular aperture. Optics Express, 2011, 19, 5760.	1.7	95
210	Numerical investigation of passive optical sorting of plasmon nanoparticles. Optics Express, 2011, 19, 13922.	1.7	12
211	Shaping the light transmission through a multimode optical fibre: complex transformation analysis and applications in biophotonics. Optics Express, 2011, 19, 18871.	1.7	292
212	Near infrared spectroscopic analysis of single malt Scotch whisky on an optofluidic chip. Optics Express, 2011, 19, 22982.	1.7	41
213	Towards high-throughput automated targeted femtosecond laser-based transfection of adherent cells. Proceedings of SPIE, 2011, , .	0.8	0
214	Shaping the future of manipulation. Nature Photonics, 2011, 5, 335-342.	15.6	848
215	Valve controlled fluorescence detection system for remote sensing applications. Microfluidics and Nanofluidics, 2011, 11, 529-536.	1.0	6
216	Enhancement and optimization of plasmid expression in femtosecond optical transfection. Journal of Biophotonics, 2011, 4, 229-235.	1.1	17

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217	Enhanced bioanalyte detection in waveguide confined Raman spectroscopy using wavelength modulation. Journal of Biophotonics, 2011, 4, 514-518.	1.1	20
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