

Kishan Dholakia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

346
papers

21,564
citations

73
h-index

139
g-index

470
ext. papers

26,442
ext. citations

5.7
avg, IF

7.08
L-index

#	Paper	IF	Citations
346	Measurement of Variations in Gas Refractive Index with 10 Resolution Using Laser Speckle.. <i>ACS Photonics</i> , 2022 , 9, 830-836	6.3	0
345	To focus-match or not to focus-match inverse spatially offset Raman spectroscopy: a question of light penetration.. <i>Optics Express</i> , 2022 , 30, 8876-8888	3.3	0
344	Stochastic Hopf bifurcations in vacuum optical tweezers. <i>Physical Review A</i> , 2021 , 104,	2.6	1
343	Initiating revolutions for optical manipulation: the origins and applications of rotational dynamics of trapped particles. <i>Advances in Physics: X</i> , 2021 , 6, 1838322	5.1	4
342	Optical Forces and Torques on Eccentric Nanoscale CoreShell Particles. <i>ACS Photonics</i> , 2021 , 8, 1103-1116.	3.3	1
341	BPM-Matlab: an open-source optical propagation simulation tool in MATLAB. <i>Optics Express</i> , 2021 , 29, 11819-11832	3.3	6
340	Emergent physics-informed design of deep learning for microscopy. <i>JPhys Photonics</i> , 2021 , 3, 021003	2.5	2
339	Optical manipulation of a dielectric particle along polygonal closed-loop geometries within a single water droplet. <i>Scientific Reports</i> , 2021 , 11, 12690	4.9	0
338	Optical manipulation: advances for biophotonics in the 21st century. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	6
337	Incorporation of nitrogen in diamond films A new way of tuning parameters for optical passive elements. <i>Diamond and Related Materials</i> , 2021 , 111, 108221	3.5	2
336	Transverse optical binding for a dual dipolar dielectric nanoparticle dimer. <i>Physical Review A</i> , 2021 , 103,	2.6	2
335	Wavelength sensitivity of the speckle patterns produced by an integrating sphere. <i>JPhys Photonics</i> , 2021 , 3, 035005	2.5	3
334	Exploring the Limit of Multiplexed Near-Field Optical Trapping. <i>ACS Photonics</i> , 2021 , 8, 2060-2066	6.3	5
333	Polarization and Orbital Angular Momentum of Light in Biomedical Applications: feature issue introduction. <i>Biomedical Optics Express</i> , 2021 , 12, 6255-6258	3.5	1
332	Does artificial intelligence have a role in the IVF clinic?. <i>Reproduction and Fertility</i> , 2021 , 2, C29-C34	1.1	0
331	Microscale diamond protection for a ZnO coated fiber optic sensor. <i>Scientific Reports</i> , 2020 , 10, 19141	4.9	5
330	Multi-photon attenuation-compensated light-sheet fluorescence microscopy. <i>Scientific Reports</i> , 2020 , 10, 8090	4.9	2

329	Real-time monitoring of live mycobacteria with a microfluidic acoustic-Raman platform. <i>Communications Biology</i> , 2020 , 3, 236	6.7	12
328	Nanostructural Diversity of Synapses in the Mammalian Spinal Cord. <i>Scientific Reports</i> , 2020 , 10, 8189	4.9	9
327	Coherent oscillations of a levitated birefringent microsphere in vacuum driven by nonconservative rotation-translation coupling. <i>Science Advances</i> , 2020 , 6, eaaz9858	14.3	15
326	Reducing data acquisition for light-sheet microscopy by extrapolation between imaged planes. <i>Journal of Biophotonics</i> , 2020 , 13, e202000035	3.1	1
325	Twisted mass transport enabled by the angular momentum of light. <i>Journal of Nanophotonics</i> , 2020 , 14, 1	1.1	3
324	Femtometer-resolved simultaneous measurement of multiple laser wavelengths in a speckle wavemeter. <i>Optics Letters</i> , 2020 , 45, 1926-1929	3	14
323	Photopolymerization with high-order Bessel light beams. <i>Optics Letters</i> , 2020 , 45, 4080-4083	3	5
322	Widefield light sheet microscopy using an Airy beam combined with deep-learning super-resolution. <i>OSA Continuum</i> , 2020 , 3, 1068	1.4	8
321	Speckle-based determination of the polarisation state of single and multiple laser beams. <i>OSA Continuum</i> , 2020 , 3, 1302	1.4	4
320	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. <i>Nanophotonics</i> , 2020 , 10, 259-293	6.3	38
319	New Directions in Sensing Using Raman Analysis on Paper and Microfluidic Platforms 2020 , 211-229		
318	Optical analysis of homocysteine metabolites using vibrational spectroscopy. <i>OSA Continuum</i> , 2020 , 3, 1958	1.4	
317	Is laser repetition rate important for two-photon light sheet microscopy?. <i>OSA Continuum</i> , 2020 , 3, 2935	1.4	0
316	Optical manipulation: a step change for biomedical science. <i>Contemporary Physics</i> , 2020 , 61, 277-294	3.3	2
315	Multimodal Imaging at Depth Using Innovations in Raman Spectroscopy and Optical Coherence Tomography 2020 , 537-550		1
314	High speed determination of laser wavelength using Poincaré descriptors of speckle. <i>Optics Communications</i> , 2020 , 459, 124906	2	7
313	Willin/FRMD6 Influences Mechanical Phenotype and Neuronal Differentiation in Mammalian Cells by Regulating ERK1/2 Activity. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 552213	6.1	3
312	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000120	8.3	20

311	Extended Kalman Filtering Projection Method to Reduce the 3D Noise Value of Optical Biosensors. <i>ACS Sensors</i> , 2020 , 5, 3474-3482	9.2	2
310	Through-bottle whisky sensing and classification using Raman spectroscopy in an axicon-based backscattering configuration. <i>Analytical Methods</i> , 2020 , 12, 4572-4578	3.2	4
309	Comparing acoustic and optical forces for biomedical research. <i>Nature Reviews Physics</i> , 2020 , 2, 480-491	23.6	22
308	Light-Sheet Fluorescence Microscopy With Structured Light 2019 , 477-501		1
307	A New Twist for Materials Science: The Formation of Chiral Structures Using the Angular Momentum of Light. <i>Advanced Optical Materials</i> , 2019 , 7, 1801672	8.1	40
306	The dyslexia susceptibility KIAA0319 gene shows a specific expression pattern during zebrafish development supporting a role beyond neuronal migration. <i>Journal of Comparative Neurology</i> , 2019 , 527, 2634-2643	3.4	4
305	Light sheet microscopy with acoustic sample confinement. <i>Nature Communications</i> , 2019 , 10, 669	17.4	17
304	Light sheet fluorescence microscopy for neuroscience. <i>Journal of Neuroscience Methods</i> , 2019 , 319, 16-23		19
303	Twisted Materials: A New Twist for Materials Science: The Formation of Chiral Structures Using the Angular Momentum of Light (Advanced Optical Materials 14/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970052	8.1	2
302	Label-free optical hemogram of granulocytes enhanced by artificial neural networks. <i>Optics Express</i> , 2019 , 27, 13706-13720	3.3	8
301	Overcoming the speckle correlation limit to achieve a fiber wavemeter with attometer resolution. <i>Optics Letters</i> , 2019 , 44, 1367-1370	3	23
300	Optimal compressive multiphoton imaging at depth using single-pixel detection. <i>Optics Letters</i> , 2019 , 44, 4981-4984	3	12
299	Rapid broadband characterization of scattering medium using hyperspectral imaging. <i>Optica</i> , 2019 , 6, 274	8.6	13
298	Light-sheet microscopy with attenuation-compensated propagation-invariant beams. <i>Science Advances</i> , 2018 , 4, eaar4817	14.3	46
297	Towards automated cancer screening: Label-free classification of fixed cell samples using wavelength modulated Raman spectroscopy. <i>Journal of Biophotonics</i> , 2018 , 11, e201700244	3.1	14
296	Detecting Phenotypically Resistant Mycobacterium tuberculosis Using Wavelength Modulated Raman Spectroscopy. <i>Methods in Molecular Biology</i> , 2018 , 1736, 41-50	1.4	6
295	An Organic Vortex Laser. <i>ACS Nano</i> , 2018 , 12, 2389-2394	16.7	20
294	Depth-resolved multimodal imaging: Wavelength modulated spatially offset Raman spectroscopy with optical coherence tomography. <i>Journal of Biophotonics</i> , 2018 , 11, e201700129	3.1	18

293	Fast volume-scanning light sheet microscopy reveals transient neuronal events. <i>Biomedical Optics Express</i> , 2018 , 9, 2154-2167	3.5	14
292	Optical binding of two cooled micro-gyroscopes levitated in vacuum. <i>Optica</i> , 2018 , 5, 910	8.6	30
291	Optical trapping with planar silicon metalenses. <i>Optics Letters</i> , 2018 , 43, 3224-3227	3	24
290	The Temperature of an Optically Trapped, Rotating Microparticle. <i>ACS Photonics</i> , 2018 , 5, 3772-3778	6.3	14
289	Three-photon light-sheet fluorescence microscopy. <i>Optics Letters</i> , 2018 , 43, 5484-5487	3	26
288	Dynamics of a Microparticle Levitated in Vacuum by an Optical Vortex Beam. <i>The Review of Laser Engineering</i> , 2018 , 46, 192	0	
287	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. <i>ACS Photonics</i> , 2018 , 5, 4156-4163	6.3	20
286	Wide-field multiphoton imaging through scattering media without correction. <i>Science Advances</i> , 2018 , 4, eaau1338	14.3	23
285	Multimodal discrimination of immune cells using a combination of Raman spectroscopy and digital holographic microscopy. <i>Scientific Reports</i> , 2017 , 7, 43631	4.9	29
284	Rotational dynamics and heating of trapped nanovaterite particles 2017 ,		1
283	Dynamics of a levitated microparticle in vacuum trapped by a perfect vortex beam: three-dimensional motion around a complex optical potential. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, C14	1.7	25
282	Modal beam splitter: determination of the transversal components of an electromagnetic light field. <i>Scientific Reports</i> , 2017 , 7, 9139	4.9	4
281	Label-free optical vibrational spectroscopy to detect the metabolic state of M. tuberculosis cells at the site of disease. <i>Scientific Reports</i> , 2017 , 7, 9844	4.9	18
280	Integrated single- and two-photon light sheet microscopy using accelerating beams. <i>Scientific Reports</i> , 2017 , 7, 1435	4.9	22
279	Harnessing speckle for a sub-femtometre resolved broadband wavemeter and laser stabilization. <i>Nature Communications</i> , 2017 , 8, 15610	17.4	41
278	Multimode fibre based imaging for optically cleared samples. <i>Biomedical Optics Express</i> , 2017 , 8, 5179-5190	3.9	3
277	Raman imaging through a single multimode fibre. <i>Optics Express</i> , 2017 , 25, 13782-13798	3.3	29
276	Is it possible to create a perfect fractional vortex beam?. <i>Optica</i> , 2017 , 4, 330	8.6	32

275	Optical Spectroscopic Analysis for the Discrimination of Extra-Virgin Olive Oil. <i>Applied Spectroscopy</i> , 2016 , 70, 1872-1882	3.1	9
274	Orbital-angular-momentum transfer to optically levitated microparticles in vacuum. <i>Physical Review A</i> , 2016 , 94,	2.6	26
273	An inverted light sheet microscope optimized for studies in neuroscience 2016 ,		1
272	Enhancement of image quality and imaging depth with Airy light-sheet microscopy in cleared and non-cleared neural tissue. <i>Biomedical Optics Express</i> , 2016 , 7, 4021-4033	3.5	28
271	Is there an optimal basis to maximise optical information transfer?. <i>Scientific Reports</i> , 2016 , 6, 22821	4.9	30
270	A compact light-sheet microscope for the study of the mammalian central nervous system. <i>Scientific Reports</i> , 2016 , 6, 26317	4.9	13
269	Rotational Dynamics and Heating of Trapped Nanovaterite Particles. <i>ACS Nano</i> , 2016 , 10, 11505-11510	16.7	30
268	Trapping in a Material World. <i>ACS Photonics</i> , 2016 , 3, 719-736	6.3	93
267	Visualization of podocyte substructure with structured illumination microscopy (SIM): a new approach to nephrotic disease. <i>Biomedical Optics Express</i> , 2016 , 7, 302-11	3.5	20
266	Measuring and structuring the spatial coherence length of organic light-emitting diodes. <i>Laser and Photonics Reviews</i> , 2016 , 10, 82-90	8.3	7
265	Creating and probing of a perfect vortex in situ with an optically trapped particle. <i>Optical Review</i> , 2015 , 22, 162-165	0.9	22
264	Development of a graded index microlens based fiber optical trap and its characterization using principal component analysis. <i>Biomedical Optics Express</i> , 2015 , 6, 1512-9	3.5	8
263	Macro-optical trapping for sample confinement in light sheet microscopy. <i>Biomedical Optics Express</i> , 2015 , 6, 2778-85	3.5	14
262	Enhancement of optical forces using slow light in a photonic crystal waveguide. <i>Optica</i> , 2015 , 2, 816	8.6	31
261	Enhanced Optical Manipulation of Cells Using Antireflection Coated Microparticles. <i>ACS Photonics</i> , 2015 , 2, 1403-1409	6.3	7
260	Internal physiology of live krill revealed using new aquaria techniques and mixed optical microscopy and optical coherence tomography (OCT) imaging techniques. <i>Marine and Freshwater Behaviour and Physiology</i> , 2015 , 48, 455-466	1.1	2
259	New directions in optical manipulation 2015 ,		1
258	Optical Manipulation: Trapping, Photoporation, and Transfection 2015 , 1-21		

257	Multimode fibre: Light-sheet microscopy at the tip of a needle. <i>Scientific Reports</i> , 2015 , 5, 18050	4.9	33
256	Airy Beams for Light-sheet Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1723-1724	0.5	1
255	Modulated Raman Spectroscopy for Enhanced Cancer Diagnosis at the Cellular Level. <i>Sensors</i> , 2015 , 15, 13680-704	3.8	39
254	The use of wavelength modulated Raman spectroscopy in label-free identification of T lymphocyte subsets, natural killer cells and dendritic cells. <i>PLoS ONE</i> , 2015 , 10, e0125158	3.7	29
253	Quantitative detection of pharmaceuticals using a combination of paper microfluidics and wavelength modulated Raman spectroscopy. <i>PLoS ONE</i> , 2015 , 10, e0123334	3.7	13
252	Wide-field three-dimensional optical imaging using temporal focusing for holographically trapped microparticles. <i>Optics Letters</i> , 2015 , 40, 4847-50	3	10
251	Rotation of two trapped microparticles in vacuum: observation of optically mediated parametric resonances. <i>Optics Letters</i> , 2015 , 40, 4751-4	3	20
250	GPU accelerated toolbox for real-time beam-shaping in multimode fibres. <i>Optics Express</i> , 2014 , 22, 2933-37	3.7	39
249	The role of LiO ₂ solubility in O ₂ reduction in aprotic solvents and its consequences for Li-O ₂ batteries. <i>Nature Chemistry</i> , 2014 , 6, 1091-9	17.6	764
248	Generation of attenuation-compensating Airy beams. <i>Optics Letters</i> , 2014 , 39, 4950-3	3	24
247	Discrimination of bladder cancer cells from normal urothelial cells with high specificity and sensitivity: combined application of atomic force microscopy and modulated Raman spectroscopy. <i>Acta Biomaterialia</i> , 2014 , 10, 2043-55	10.8	46
246	Random super-prism wavelength meter. <i>Optics Letters</i> , 2014 , 39, 96-9	3	34
245	A Raman spectroscopy bio-sensor for tissue discrimination in surgical robotics. <i>Journal of Biophotonics</i> , 2014 , 7, 103-9	3.1	14
244	A compact Airy beam light sheet microscope with a tilted cylindrical lens. <i>Biomedical Optics Express</i> , 2014 , 5, 3434-42	3.5	53
243	Gold nanorod assisted intracellular optical manipulation of silica microspheres. <i>Optics Express</i> , 2014 , 22, 19735-47	3.3	5
242	Biologically enabled sub-diffractive focusing. <i>Optics Express</i> , 2014 , 22, 27214-27	3.3	28
241	Nonredundant Raman imaging using optical eigenmodes. <i>Optica</i> , 2014 , 1, 257	8.6	12
240	Optical trapping with a perfect vortex beam 2014 ,		10

239	Label-free haemogram using wavelength modulated Raman spectroscopy for identifying immune-cell subset 2014 ,		1
238	Light-sheet microscopy using an Airy beam. <i>Nature Methods</i> , 2014 , 11, 541-4	21.6	479
237	The application of optical coherence tomography to image subsurface tissue structure of Antarctic krill <i>Euphausia superba</i> . <i>PLoS ONE</i> , 2014 , 9, e110367	3.7	5
236	Optofluidic Raman sensor for simultaneous detection of the toxicity and quality of alcoholic beverages. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 795-797	2.3	5
235	Laser-induced rotation and cooling of a trapped microgyroscope in vacuum. <i>Nature Communications</i> , 2013 , 4, 2374	17.4	189
234	Fast targeted gene transfection and optogenetic modification of single neurons using femtosecond laser irradiation. <i>Scientific Reports</i> , 2013 , 3, 3281	4.9	24
233	Optical trapping of NaYF ₄ :Er ³⁺ ,Yb ³⁺ upconverting fluorescent nanoparticles. <i>Nanoscale</i> , 2013 , 5, 12192-7	4.7	50
232	Classification of Raman spectra of single cells with autofluorescence suppression by wavelength modulated excitation. <i>Analytical Methods</i> , 2013 , 5, 4608	3.2	19
231	Coherent control of plasmonic nanoantennas using optical eigenmodes. <i>Scientific Reports</i> , 2013 , 3, 18084.9	4.9	13
230	Laser-induced breakdown of an optically trapped gold nanoparticle for single cell transfection. <i>Optics Letters</i> , 2013 , 38, 3402-5	3	26
229	Wavelength modulated surface enhanced (resonance) Raman scattering for background-free detection. <i>Analyst, The</i> , 2013 , 138, 2816-20	5	7
228	Femtosecond optical transfection of individual mammalian cells. <i>Nature Protocols</i> , 2013 , 8, 1216-33	18.8	53
227	Dynamics of microparticles trapped in a perfect vortex beam. <i>Optics Letters</i> , 2013 , 38, 4919-22	3	185
226	Multi-modal approach using Raman spectroscopy and optical coherence tomography for the discrimination of colonic adenocarcinoma from normal colon. <i>Biomedical Optics Express</i> , 2013 , 4, 2179-86	3.5	61
225	Enhanced cell transfection using subwavelength focused optical eigenmode beams [Invited]. <i>Photonics Research</i> , 2013 , 1, 42	6	8
224	Effect of the radial and azimuthal mode indices of a partially coherent vortex field upon a spatial correlation singularity. <i>New Journal of Physics</i> , 2013 , 15, 113053	2.9	39
223	Optimisation of wavelength modulated Raman spectroscopy: towards high throughput cell screening. <i>PLoS ONE</i> , 2013 , 8, e67211	3.7	8
222	Femtosecond optoinjection of intact tobacco BY-2 cells using a reconfigurable photoporation platform. <i>PLoS ONE</i> , 2013 , 8, e79235	3.7	9

221	Optical trapping for analytical biotechnology. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 16-21	11.4	52
220	Multimodal biophotonic workstation for live cell analysis. <i>Journal of Biophotonics</i> , 2012 , 5, 9-13	3.1	17
219	Wavelength Modulated Raman Spectroscopy for Biomedical Applications. <i>Biomedizinische Technik</i> , 2012 , 57,	1.3	1
218	Microfluidic Raman Spectroscopy for Bio-chemical Sensing and Analysis. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2012 , 247-268	2	6
217	Raman-activated cell counting for profiling carbon dioxide fixing microorganisms. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 6560-3	2.8	28
216	Measuring the orbital angular momentum of partially coherent optical vortices through singularities in their cross-spectral density functions. <i>Optics Letters</i> , 2012 , 37, 4949-51	3	47
215	High-throughput optical injection of mammalian cells using a Bessel light beam. <i>Lab on A Chip</i> , 2012 , 12, 4816-20	7.2	25
214	Wavefront corrected light sheet microscopy in turbid media. <i>Applied Physics Letters</i> , 2012 , 100, 191108	3.4	22
213	Willin/FRMD6 expression activates the Hippo signaling pathway kinases in mammals and antagonizes oncogenic YAP. <i>Oncogene</i> , 2012 , 31, 238-50	9.2	76
212	Bidirectional optical sorting of gold nanoparticles. <i>Nano Letters</i> , 2012 , 12, 1923-7	11.5	97
211	Simultaneous determination of the constituent azimuthal and radial mode indices for light fields possessing orbital angular momentum. <i>Applied Physics Letters</i> , 2012 , 100, 231115	3.4	35
210	Fluorescence suppression using wavelength modulated Raman spectroscopy in fiber-probe-based tissue analysis. <i>Journal of Biomedical Optics</i> , 2012 , 17, 077006	3.5	15
209	Tissue surface as the reference arm in Fourier domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2012 , 17, 071305	3.5	9
208	Raman spectra of single cells with autofluorescence suppression by modulated wavelength excitation 2012 ,		1
207	Auto-focusing and self-healing of Pearcey beams. <i>Optics Express</i> , 2012 , 20, 18955-66	3.3	169
206	An interacting dipole model to explore broadband transverse optical binding. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 464117	1.8	7
205	Exploiting multimode waveguides for pure fibre-based imaging. <i>Nature Communications</i> , 2012 , 3, 1027	17.4	313
204	Resonance enhanced optical manipulation: the push and pull of light 2012 ,		3

203	Exploring the ultrashort pulse laser parameter space for membrane permeabilisation in mammalian cells. <i>Scientific Reports</i> , 2012 , 2, 858	4.9	14
202	Etaloning, fluorescence and ambient light suppression by modulated wavelength Raman spectroscopy. <i>Biomedical Spectroscopy and Imaging</i> , 2012 , 1, 383-389	1.3	17
201	Picoliter rheology of gaseous media using a rotating optically trapped birefringent microparticle. <i>Analytical Chemistry</i> , 2011 , 83, 8855-8	7.8	31
200	Far field subwavelength focusing using optical eigenmodes. <i>Applied Physics Letters</i> , 2011 , 98, 181109	3.4	52
199	Modulated Raman spectroscopy for enhanced identification of bladder tumor cells in urine samples. <i>Journal of Biomedical Optics</i> , 2011 , 16, 037002	3.5	48
198	Integrated holographic system for all-optical manipulation of developing embryos. <i>Biomedical Optics Express</i> , 2011 , 2, 1564-75	3.5	20
197	Optical eigenmodes; exploiting the quadratic nature of the energy flux and of scattering interactions. <i>Optics Express</i> , 2011 , 19, 933-45	3.3	55
196	Visualization of the birth of an optical vortex using diffraction from a triangular aperture. <i>Optics Express</i> , 2011 , 19, 5760-71	3.3	76
195	Numerical investigation of passive optical sorting of plasmon nanoparticles. <i>Optics Express</i> , 2011 , 19, 13922-33	3.3	7
194	Shaping the light transmission through a multimode optical fibre: complex transformation analysis and applications in biophotonics. <i>Optics Express</i> , 2011 , 19, 18871-84	3.3	170
193	Near infrared spectroscopic analysis of single malt Scotch whisky on an optofluidic chip. <i>Optics Express</i> , 2011 , 19, 22982-92	3.3	34
192	Shaping the future of manipulation. <i>Nature Photonics</i> , 2011 , 5, 335-342	33.9	621
191	Valve controlled fluorescence detection system for remote sensing applications. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 529-536	2.8	6
190	Enhanced bioanalyte detection in waveguide confined Raman spectroscopy using wavelength modulation. <i>Journal of Biophotonics</i> , 2011 , 4, 514-8	3.1	16
189	Waveguide confined Raman spectroscopy for microfluidic interrogation. <i>Lab on A Chip</i> , 2011 , 11, 1262-70.2	7.2	53
188	Optical eigenmode imaging. <i>Physical Review A</i> , 2011 , 84,	2.6	24
187	Spatially optimized gene transfection by laser-induced breakdown of optically trapped nanoparticles. <i>Applied Physics Letters</i> , 2011 , 98, 093702	3.4	30
186	Optical transfection using an endoscope-like system. <i>Journal of Biomedical Optics</i> , 2011 , 16, 028002	3.5	15

185	Imaging the cellular response to transient shear stress using stroboscopic digital holography. <i>Journal of Biomedical Optics</i> , 2011 , 16, 120508	3.5	2
184	Femtosecond laser pulses for chemical-free embryonic and mesenchymal stem cell differentiation 2011 ,		1
183	In situ wavefront correction and its application to micromanipulation. <i>Nature Photonics</i> , 2010 , 4, 388-394	3.9	284
182	Phototransfection of mammalian cells using femtosecond laser pulses: optimization and applicability to stem cell differentiation. <i>Journal of Biomedical Optics</i> , 2010 , 15, 041507	3.5	26
181	Modulated Raman spectroscopy technique for real-time fluorescence rejection 2010 ,		1
180	Light forces the pace: optical manipulation for biophotonics. <i>Journal of Biomedical Optics</i> , 2010 , 15, 041503	3.5	86
179	Quantitative phase study of the dynamic cellular response in femtosecond laser photoporation. <i>Biomedical Optics Express</i> , 2010 , 1, 414-424	3.5	23
178	Optical injection of mammalian cells using a microfluidic platform. <i>Biomedical Optics Express</i> , 2010 , 1, 527-536	3.5	28
177	Integrated optical transfection system using a microlens fiber combined with microfluidic gene delivery. <i>Biomedical Optics Express</i> , 2010 , 1, 694-705	3.5	24
176	Optical chromatography using a photonic crystal fiber with on-chip fluorescence excitation. <i>Optics Express</i> , 2010 , 18, 6396-407	3.3	20
175	Effect of pulse temporal shape on optical trapping and impulse transfer using ultrashort pulsed lasers. <i>Optics Express</i> , 2010 , 18, 7554-68	3.3	42
174	Fiber probe based microfluidic raman spectroscopy. <i>Optics Express</i> , 2010 , 18, 7642-9	3.3	40
173	Optimal algorithm for fluorescence suppression of modulated Raman spectroscopy. <i>Optics Express</i> , 2010 , 18, 11382-95	3.3	50
172	Optical path clearing and enhanced transmission through colloidal suspensions. <i>Optics Express</i> , 2010 , 18, 17130-40	3.3	39
171	Experimental and theoretical determination of optical binding forces. <i>Optics Express</i> , 2010 , 18, 25389-4033	3.3	44
170	Colloquium: Grippled by light: Optical binding. <i>Reviews of Modern Physics</i> , 2010 , 82, 1767-1791	40.5	314
169	Multiple optical trapping and binding: new routes to self-assembly. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 102001	1.3	110
168	Single cell optical transfection. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 863-71	4.1	130

167	Online fluorescence suppression in modulated Raman spectroscopy. <i>Analytical Chemistry</i> , 2010 , 82, 738-45	4.5	84
166	Transient transfection of mammalian cells using a violet diode laser. <i>Journal of Biomedical Optics</i> , 2010 , 15, 041506	3.5	9
165	Transfection by Optical Injection. <i>Series in Medical Physics and Biomedical Engineering</i> , 2010 , 87-118		6
164	Intracellular Dielectric Tagging for Improved Optical Manipulation of Mammalian Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 608-618	3.8	5
163	Application of dynamic diffractive optics for enhanced femtosecond laser based cell transfection. <i>Journal of Biophotonics</i> , 2010 , 3, 696-705	3.1	37
162	Light beats the spread: Non-diffracting beams. <i>Laser and Photonics Reviews</i> , 2010 , 4, 529-547	8.3	103
161	Axial intensity shaping of a Bessel beam 2009 ,		2
160	Optical "snowblowing" of microparticles and cells in a microfluidic environment using Airy and parabolic wavepackets 2009 ,		1
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