

# Jonathan Cooper

## List of Publications by Year in descending order

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447  
papers

27,925  
citations

8755

77  
h-index

9118

149  
g-index

459  
all docs

459  
docs citations

459  
times ranked

27120  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Speed Diagnosis of Bacterial Pathogens at the Single Cell Level by Raman Microspectroscopy with Machine Learning Filters and Denoising Autoencoders. ACS Chemical Biology, 2022, 17, 376-385.	1.6	17
2	Multiplex, Real-Time, Point-of-care RT-LAMP for SARS-CoV-2 Detection Using the HFman Probe. ACS Sensors, 2022, 7, 730-739.	4.0	40
3	Programmable design of isothermal nucleic acid diagnostic assays through abstraction-based models. Nature Communications, 2022, 13, 1635.	5.8	4
4	Reprogrammed tracrRNAs enable repurposing of RNAs as crRNAs and sequence-specific RNA biosensors. Nature Communications, 2022, 13, 1937.	5.8	17
5	Miniaturized analytical methods for determination of environmental contaminants of emerging concern "A review. Analytica Chimica Acta, 2021, 1158, 238108.	2.6	49
6	Paper-based nanosensors to evaluate community-wide illicit drug use for wastewater-based epidemiology. Water Research, 2021, 189, 116559.	5.3	33
7	A rapid variant-tolerant reverse transcription loop-mediated isothermal amplification assay for the point of care detection of HIV-1. Analyst, The, 2021, 146, 5347-5356.	1.7	14
8	Bandpass sorting of heterogeneous cells using a single surface acoustic wave transducer pair. Biomicrofluidics, 2021, 15, 014105.	1.2	7
9	Spatial Heterodyne Offset Raman Spectroscopy Enabling Rapid, High Sensitivity Characterization of Materials' Interfaces. Small, 2021, 17, 2101114.	5.2	5
10	Smartphone-based DNA diagnostics for malaria detection using deep learning for local decision support and blockchain technology for security. Nature Electronics, 2021, 4, 615-624.	13.1	50
11	Paper microfluidic implementation of loop mediated isothermal amplification for early diagnosis of hepatitis C virus. Nature Communications, 2021, 12, 6994.	5.8	43
12	Human Activity Recognition based on Collaboration of Vision and WiFi Signals. , 2021, , .		2
13	Integration of paper microfluidic sensors into contact lenses for tear fluid analysis. Lab on A Chip, 2020, 20, 3970-3979.	3.1	49
14	Low sample volume origami-paper-based graphene-modified aptasensors for label-free electrochemical detection of cancer biomarker-EGFR. Microsystems and Nanoengineering, 2020, 6, 32.	3.4	55
15	Hierarchical Nanotexturing Enables Acoustofluidics on Slippery yet Sticky, Flexible Surfaces. Nano Letters, 2020, 20, 3263-3270.	4.5	38
16	Holographic detection of nanoparticles using acoustically actuated nanolenses. Nature Communications, 2020, 11, 171.	5.8	26
17	Channel integrated optoelectronic tweezer chip for microfluidic particle manipulation. Journal of Micromechanics and Microengineering, 2020, 30, 045004.	1.5	8
18	Highly Efficient Spatially Offset Raman Spectroscopy to Profile Molecular Composition in Bone. IEEE Access, 2020, 8, 62905-62911.	2.6	7

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19	Characterisation of GLUT4 trafficking in HeLa cells: comparable kinetics and orthologous trafficking mechanisms to 3T3-L1 adipocytes. PeerJ, 2020, 8, e8751.	0.9	16
20	Spatially offset Raman spectroscopy for the diagnosis of bone composition. , 2020, , .		0
21	Multi-spectral vascular oximetry of rat dorsal spinal cord. , 2020, , .		0
22	Synchronous nanoscale topographic and chemical mapping by differential-confocal controlled Raman microscopy. Photonics Research, 2020, 8, 1441.	3.4	5
23	Branched hybridization chain reaction using highly dimensional DNA nanostructures for label-free, reagent-less, multiplexed molecular diagnostics. Microsystems and Nanoengineering, 2019, 5, 37.	3.4	22
24	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	1.3	236
25	Computational Image Analysis of Guided Acoustic Waves Enables Rheological Assessment of Sub-nanoliter Volumes. ACS Nano, 2019, 13, 11062-11069.	7.3	5
26	Paper-based microfluidics for DNA diagnostics of malaria in low resource underserved rural communities. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4834-4842.	3.3	233
27	Concentrated vertical jetting mechanism for isotropically focused ZnO/Si surface acoustic waves. International Journal of Multiphase Flow, 2019, 114, 1-8.	1.6	22
28	Green-function Method for Nonlinear Interactions of Elastic Waves. , 2019, , .		1
29	Non-Classical Second-Order Nonlinear Elastic Wave Interactions. , 2019, , .		0
30	Ultrasonic Surface Acoustic Wave platform for targeted pulmonary delivery of nano drug vehicles. , 2019, , .		0
31	Ultrasonic Wave Mixing for Nonlinear Ultrasonics in a Microfluidic Capillary. , 2019, , .		1
32	Multireflection Polarimetry in Microfluidics. , 2019, 3, 1-4.		3
33	Holographic Microscopy with Acoustic Modulation for Detection of Nano-sized Particles and Pathogens in Solution. , 2019, , .		0
34	Low-cost, multispectral imaging mini-microscope for longitudinal oximetry in small animals.. , 2019, , .		0
35	Effect of Laser Irradiation on Cell Function and Its Implications in Raman Spectroscopy. Applied and Environmental Microbiology, 2018, 84, .	1.4	40
36	Creating tissue on chip constructs in microtitre plates for drug discovery. RSC Advances, 2018, 8, 9603-9610.	1.7	7

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37	Molecular clutch drives cell response to surface viscosity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1192-1197.	3.3	115
38	Rapid Veterinary Diagnosis of Bovine Reproductive Infectious Diseases from Semen Using Paper-Origami DNA Microfluidics. ACS Sensors, 2018, 3, 403-409.	4.0	75
39	Microstructures to shape acoustic fields and create complex microfluidic flows. , 2018, , .		0
40	Breaking the Symmetry of Momentum Conservation Using Evanescent Acoustic Fields. Physical Review Letters, 2018, 121, 244301.	2.9	7
41	Hyperelastic Tuning of One-Dimensional Phononic Band Gaps Using Directional Stress. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1056-1061.	1.7	3
42	Cycling of Rational Hybridization Chain Reaction To Enable Enzyme-Free DNA-Based Clinical Diagnosis. ACS Nano, 2018, 12, 7213-7219.	7.3	25
43	Matrix-masking to balance nonuniform illumination in microscopy. Optics Express, 2018, 26, 17279.	1.7	5
44	Particle separation in surface acoustic wave microfluidic devices using reprogrammable, pseudo-standing waves. Applied Physics Letters, 2018, 113, .	1.5	26
45	Ultrasonic waves in uniaxially stressed multilayered and one-dimensional phononic structures: Guided and Floquet wave analysis. Journal of the Acoustical Society of America, 2018, 144, 81-91.	0.5	0
46	Reversible DNA micro-patterning using the fluoros effect. Chemical Communications, 2017, 53, 3094-3097.	2.2	11
47	Surface acoustic waves induced micropatterning of cells in gelatin methacryloyl (GelMA) hydrogels. Biofabrication, 2017, 9, 015020.	3.7	126
48	Particle separation by phase modulated surface acoustic waves. Biomicrofluidics, 2017, 11, 054115.	1.2	34
49	Monitoring Genetic Population Biomarkers for Wastewater-Based Epidemiology. Analytical Chemistry, 2017, 89, 9941-9945.	3.2	53
50	Lipid topology and electrostatic interactions underpin lytic activity of linear cationic antimicrobial peptides in membranes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8324-E8332.	3.3	63
51	Confinement of surface waves at the air-water interface to control aerosol size and dispersity. Physics of Fluids, 2017, 29, 112105.	1.6	10
52	Frequency dependence of microflows upon acoustic interactions with fluids. Physics of Fluids, 2017, 29, 122008.	1.6	15
53	Manufacturing with light - micro-assembly of opto-electronic microstructures. Optics Express, 2017, 25, 28838.	1.7	23
54	Microfluidics-Based Approaches to the Isolation of African Trypanosomes. Pathogens, 2017, 6, 47.	1.2	6

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55	Visual detection of Brucella in bovine biological samples using DNA-activated gold nanoparticles. PLoS ONE, 2017, 12, e0180919.	1.1	28
56	Use of optoelectronic tweezers in manufacturing—accurate solder bead positioning. Applied Physics Letters, 2016, 109, .	1.5	21
57	i-Rheo: Measuring the materials' linear viscoelastic properties in a step-by-step manner. Journal of Rheology, 2016, 60, 649-660.	1.3	47
58	Continuous cell sorting in a flow based on single cell resonance Raman spectra. Lab on A Chip, 2016, 16, 1420-1429.	3.1	62
59	Assembling silver nanowires using optoelectronic tweezers. , 2016, , .		4
60	A capillary-based multiplexed isothermal nucleic acid-based test for sexually transmitted diseases in patients. Chemical Communications, 2016, 52, 12187-12190.	2.2	18
61	Paper-Based Origami-Based Multiplexed Malaria Diagnostics from Whole Blood. Angewandte Chemie - International Edition, 2016, 55, 15250-15253.	7.2	125
62	Paper-Based Origami-Based Multiplexed Malaria Diagnostics from Whole Blood. Angewandte Chemie, 2016, 128, 15476-15479.	1.6	29
63	Automated particle identification through regression analysis of size, shape and colour. , 2016, , .		0
64	Visualization of Surface Acoustic Waves in Thin Liquid Films. Scientific Reports, 2016, 6, 21980.	1.6	31
65	Manipulating and assembling metallic beads with Optoelectronic Tweezers. Scientific Reports, 2016, 6, 32840.	1.6	35
66	Polarization switchable two-color plasmonic nano-pixels for creating optical surfaces encoded with dual information states. Proceedings of SPIE, 2016, , .	0.8	0
67	DNA-directed spatial assembly of photosynthetic light-harvesting proteins. Organic and Biomolecular Chemistry, 2016, 14, 1359-1362.	1.5	7
68	Dual Color Plasmonic Pixels Create a Polarization Controlled Nano Color Palette. ACS Nano, 2016, 10, 492-498.	7.3	218
69	Engineering molecularly-active nanoplasmonic surfaces for DNA detection via colorimetry and Raman scattering. Proceedings of SPIE, 2016, , .	0.8	0
70	Assessment of biocompatibility of 3D printed photopolymers using zebrafish embryo toxicity assays. Lab on A Chip, 2016, 16, 291-297.	3.1	135
71	Interfacing low-energy SAW nebulization with Liquid Chromatography-Mass Spectrometry for the analysis of biological samples. Scientific Reports, 2015, 5, 9736.	1.6	21
72	Controlled Rotation and Vibration of Patterned Cell Clusters Using Dielectrophoresis. Analytical Chemistry, 2015, 87, 2389-2395.	3.2	24

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73	Chemical-Free Lysis and Fractionation of Cells by Use of Surface Acoustic Waves for Sensitive Protein Assays. <i>Analytical Chemistry</i> , 2015, 87, 2161-2169.	3.2	34
74	Rapid ultrasonic isothermal amplification of DNA with multiplexed melting analysis – applications in the clinical diagnosis of sexually transmitted diseases. <i>Chemical Communications</i> , 2015, 51, 2589-2592.	2.2	29
75	Acoustic suppression of the coffee-ring effect. <i>Soft Matter</i> , 2015, 11, 7207-7213.	1.2	79
76	Imaging phase separation in model lipid membranes through the use of BODIPY based molecular rotors. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18393-18402.	1.3	86
77	An engineered nano-plasmonic biosensing surface for colorimetric and SERS detection of DNA-hybridization events. , 2015, , .		0
78	Microrheology with Optical Tweezers: Measuring the relative viscosity of solutions – at a glance™. <i>Scientific Reports</i> , 2015, 5, 8831.	1.6	71
79	An integrated microspectrometer for localised multiplexing measurements. <i>Lab on A Chip</i> , 2015, 15, 283-289.	3.1	9
80	Cell proliferation and migration inside single cell arrays. <i>Lab on A Chip</i> , 2015, 15, 208-215.	3.1	17
81	Optoelectronic cell lysis. , 2014, , .		0
82	Annular nanoplasmonic void arrays as tunable surface enhanced Raman spectroscopy substrates. <i>Applied Physics Letters</i> , 2014, 105, 033115.	1.5	4
83	Spatially Selecting a Single Cell for Lysis Using Light-Induced Electric Fields. <i>Small</i> , 2014, 10, 3026-3031.	5.2	17
84	Rare-Cell Enrichment by a Rapid, Label-Free, Ultrasonic Isopycnic Technique for Medical Diagnostics. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5587-5590.	7.2	51
85	Wireless Sensor Microsystem Design: A Practical Perspective. , 2014, , 463-494.		0
86	Quantification of Functionalised Gold Nanoparticle-Targeted Knockdown of Gene Expression in HeLa Cells. <i>PLoS ONE</i> , 2014, 9, e99458.	1.1	8
87	Integrating microfluidic generation, handling and analysis of biomimetic giant unilamellar vesicles. <i>Lab on A Chip</i> , 2014, 14, 1806-1810.	3.1	33
88	Single cell growth rate and morphological dynamics revealing an –opportunistic– persistence. <i>Analyst, The</i> , 2014, 139, 3305-3313.	1.7	24
89	Editorial – probe and chip approaches to cell analysis. <i>Analyst, The</i> , 2014, 139, 3205.	1.7	0
90	Gradient Microfluidics Enables Rapid Bacterial Growth Inhibition Testing. <i>Analytical Chemistry</i> , 2014, 86, 3131-3137.	3.2	83

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91	Plasmonics: Engineering DNA Binding Sites to Assemble and Tune Plasmonic Nanostructures (Adv.) Tj ETQq1 1 0.784314 rgBJ /Overlo	11.1	14
92	Microfluidic resonant cavities enable acoustophoresis on a disposable superstrate. Lab on A Chip, 2014, 14, 4277-4283.	3.1	35
93	Magnetite-doped polydimethylsiloxane (PDMS) for phosphopeptide enrichment. Analyst, The, 2014, 139, 4974-4981.	1.7	8
94	Engineering DNA Binding Sites to Assemble and Tune Plasmonic Nanostructures. Advanced Materials, 2014, 26, 4286-4292.	11.1	9
95	OpenSource Lab-on-a-Chip Physiometer for Accelerated Zebrafish Embryo Biotests. Current Protocols in Cytometry, 2014, 67, 9.44.1-9.44.16.	3.7	3
96	Rare-Cell Enrichment by a Rapid, Label-Free, Ultrasonic Isopycnic Technique for Medical Diagnostics. Angewandte Chemie, 2014, 126, 5693-5696.	1.6	11
97	Shape-Dependent Optoelectronic Cell Lysis. Angewandte Chemie - International Edition, 2014, 53, 842-846.	7.2	17
98	Influence of microRNA deregulation on chaperone-mediated autophagy and $\alpha$ -synuclein pathology in Parkinson's disease. Cell Death and Disease, 2013, 4, e545-e545.	2.7	181
99	Molecularly defined plasmonic engineering to visualize antibody binding events by eye. , 2013, , .		1
100	Acoustically controlled enhancement of molecular sensing to assess oxidative stress in cells. Chemical Communications, 2013, 49, 2918.	2.2	20
101	Polymer dual ring resonators for label-free optical biosensing using microfluidics. Chemical Communications, 2013, 49, 3095.	2.2	28
102	A novel $\alpha$ -synuclein missense mutation in Parkinson disease. Neurology, 2013, 80, 1062-1064.	1.5	396
103	Creating "Living" Polymer Surfaces to Pattern Biomolecules and Cells on Common Plastics. Biomacromolecules, 2013, 14, 1278-1286.	2.6	17
104	Sequence-Selective Detection of Double-Stranded DNA Sequences Using Pyrrole-Imidazole Polyamide Microarrays. Journal of the American Chemical Society, 2013, 135, 3449-3457.	6.6	34
105	Fish on chips: Microfluidic living embryo array for accelerated in vivo angiogenesis assays. Sensors and Actuators B: Chemical, 2013, 189, 11-20.	4.0	35
106	Using Optical Tweezers for the Characterization of Polyelectrolyte Solutions with Very Low Viscoelasticity. Langmuir, 2013, 29, 9224-9230.	1.6	30
107	Continuous cell lysis in microfluidics through acoustic and optoelectronic tweezers. , 2013, , .		2
108	Integrated microfluidic spectroscopic sensor using arrayed waveguide grating. Proceedings of SPIE, 2013, , .	0.8	0

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109	Aerosol droplet optical trap loading using surface acoustic wave nebulization. Optics Express, 2013, 21, 30148.	1.7	14
110	Additive manufacturing of lab-on-a-chip devices: promises and challenges. , 2013, , .		13
111	The Val158Met COMT polymorphism is a modifier of the age at onset in Parkinson's disease with a sexual dimorphism. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 666-673.	0.9	43
112	Adapted AWG design for localised spectroscopic measurements. , 2013, , .		0
113	Rheology at the micro-scale: new tools for bio-analysis. Proceedings of SPIE, 2013, , .	0.8	1
114	A Robust Lithographic Method for Multiplex Surface Patterning. Current Analytical Chemistry, 2013, 9, 29-36.	0.6	4
115	Swimming Using Surface Acoustic Waves. PLoS ONE, 2013, 8, e42686.	1.1	18
116	New optical, acoustic, and electrical diagnostics for the developing world. Proceedings of SPIE, 2012, , .	0.8	0
117	Microrheology with optical tweezers: data analysis. New Journal of Physics, 2012, 14, 115032.	1.2	109
118	Optoelectronic tweezers for medical diagnostics. , 2012, , .		2
119	Intracellular multiplex detection and imaging of stable chemisorbed labels by SERS spectroscopy. , 2012, , .		1
120	Shaping acoustic fields as a toolset for microfluidic manipulations in diagnostic technologies. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15162-15167.	3.3	171
121	Optoelectronic tweezers for the measurement of the relative stiffness of erythrocytes. Proceedings of SPIE, 2012, , .	0.8	5
122	Characterization of individual microdroplets by SERRS spectroscopy. Proceedings of SPIE, 2012, , .	0.8	0
123	OET meets acoustic tweezing. Proceedings of SPIE, 2012, , .	0.8	0
124	The Legacy of Volta: Looking to the Future of Bioelectrochemistry, after more than 200 Years. Electrochemistry, 2012, 80, 291-291.	0.6	0
125	Counterflow Dielectrophoresis for Trypanosome Enrichment and Detection in Blood. Scientific Reports, 2012, 2, 775.	1.6	23
126	Fish on Chips: Automated Microfluidic Living Embryo Arrays. Procedia Engineering, 2012, 47, 84-87.	1.2	10

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127	New rationale for large metazoan embryo manipulations on chip-based devices. <i>Biomicrofluidics</i> , 2012, 6, 024102.	1.2	33
128	Nebulisation on a disposable array structured with phononic lattices. <i>Lab on A Chip</i> , 2012, 12, 1268.	3.1	41
129	Intracellular protein trafficking kinetics in chronic myeloid leukemia stem cells using a microfluidic platform. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 368.	0.6	5
130	Quantitative Characterization of Individual Microdroplets using Surface-Enhanced Resonance Raman Scattering Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 1491-1495.	3.2	25
131	Partial Synchronization of Stochastic Oscillators through Hydrodynamic Coupling. <i>Physical Review Letters</i> , 2012, 108, 240601.	2.9	26
132	Integrated microspectrometer for fluorescence based analysis in a microfluidic format. <i>Lab on A Chip</i> , 2012, 12, 2850.	3.1	36
133	Expression of membrane-associated proteins within single emulsion cell facsimiles. <i>Analyst, The</i> , 2012, 137, 2939.	1.7	10
134	Single-Cell Analysis in Microdroplets. , 2012, , 211-228.		1
135	Titelbild: Plasmon Shaping by using Protein Nanoarrays and Molecular Lithography to Engineer Structural Color ( <i>Angew. Chem. 15/2012</i> ). <i>Angewandte Chemie</i> , 2012, 124, 3551-3551.	1.6	1
136	Plasmon Shaping by using Protein Nanoarrays and Molecular Lithography to Engineer Structural Color. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3562-3566.	7.2	16
137	Protein Expression, Aggregation, and Triggered Release from Polymersomes as Artificial Cell-Like Structures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6416-6420.	7.2	162
138	Cytoskeletal Protein Expression and its Association within the Hydrophobic Membrane of Artificial Cell Models. <i>ChemBioChem</i> , 2012, 13, 792-795.	1.3	11
139	Generation of primary hepatocyte microarrays by piezoelectric printing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 89, 126-132.	2.5	15
140	Miniaturized Embryo Array for Automated Trapping, Immobilization and Microperfusion of Zebrafish Embryos. <i>PLoS ONE</i> , 2012, 7, e36630.	1.1	74
141	A Robust Lithographic Method for Multiplex Surface Patterning. <i>Current Analytical Chemistry</i> , 2012, 9, 29-36.	0.6	0
142	Phononic crystal structures for acoustically driven microfluidic manipulations. <i>Lab on A Chip</i> , 2011, 11, 323-328.	3.1	105
143	Investigation of the stability of labelled nanoparticles for SE(R)RS measurements in cells. <i>Chemical Communications</i> , 2011, 47, 4099.	2.2	25
144	Intracellular Protein Determination Using Droplet-Based Immunoassays. <i>Analytical Chemistry</i> , 2011, 83, 5361-5368.	3.2	52

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145	Dynamic Analysis of Drug-Induced Cytotoxicity Using Chip-Based Dielectrophoretic Cell Immobilization Technology. <i>Analytical Chemistry</i> , 2011, 83, 2133-2144.	3.2	56
146	Interfacing Cell-Based Assays in Environmental Scanning Electron Microscopy Using Dielectrophoresis. <i>Analytical Chemistry</i> , 2011, 83, 3217-3221.	3.2	23
147	Droplet Microfluidics for High-throughput Analysis of Cells and Particles. <i>Methods in Cell Biology</i> , 2011, 102, 23-48.	0.5	13
148	Apoptosis goes on a chip: advances in the microfluidic analysis of programmed cell death. <i>Analytical Chemistry</i> , 2011, 83, 6439-6446.	3.2	29
149	Miniaturized optoelectronic tweezers controlled by GaN micro-pixel light emitting diode arrays. <i>Optics Express</i> , 2011, 19, 2720.	1.7	39
150	How common and what are the determinants of sub-optimal care for Parkinson's disease patients: The Milton Keynes community study. <i>Parkinsonism and Related Disorders</i> , 2011, 17, 177-181.	1.1	8
151	Integrated immunoassay using tuneable surface acoustic waves and lensfree detection. <i>Lab on A Chip</i> , 2011, 11, 2725.	3.1	61
152	Phononic fluidics: acoustically activated droplet manipulations. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
153	How well do we recognise non-motor symptoms in a British Parkinson's disease population?. <i>Journal of Neurology</i> , 2011, 258, 1513-1517.	1.8	44
154	Nanogap Ring Antennae as Plasmonically Coupled SERRS Substrates. <i>Small</i> , 2011, 7, 119-125.	5.2	45
155	Phononic Crystals for Shaping Fluids. <i>Advanced Materials</i> , 2011, 23, 1458-1462.	11.1	79
156	Trapping and imaging of micron-sized embryos using dielectrophoresis. <i>Electrophoresis</i> , 2011, 32, 3129-3132.	1.3	22
157	Wormometry on a chip: Innovative technologies for in situ analysis of small multicellular organisms. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 799-813.	1.1	55
158	Cell chip array for microfluidic proteomics enabling rapid <i>in situ</i> assessment of intracellular protein phosphorylation. <i>Biomicrofluidics</i> , 2011, 5, 24106.	1.2	19
159	Optical tweezers: wideband microrheology. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044022.	1.0	65
160	Optical manipulation of aerosols using surface acoustic wave nebulisation. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
161	Real-Time Cytotoxicity Assays. <i>Methods in Molecular Biology</i> , 2011, 731, 285-291.	0.4	23
162	Optoelectronic Tweezers as a Tool for Medical Diagnostics. , 2011, , .		1

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163	Microfluidic cell arrays in tumor analysis: new prospects for integrated cytomics. <i>Expert Review of Molecular Diagnostics</i> , 2010, 10, 521-530.	1.5	18
164	Microfabricated analytical systems for integrated cancer cytomics. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 193-209.	1.9	49
165	Real time characterization of hydrodynamics in optically trapped networks of micro-particles. <i>Journal of Biophotonics</i> , 2010, 3, 244-251.	1.1	13
166	Microfluidic cell arrays for metabolic monitoring of stimulated cardiomyocytes. <i>Electrophoresis</i> , 2010, 31, 1405-1413.	1.3	43
167	Optical Properties of Multiple-Split Nanophotonic Ring Antennae. <i>Advanced Materials</i> , 2010, 22, 4025-4029.	11.1	32
168	Tumors on chips: oncology meets microfluidics. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 556-567.	2.8	159
169	The Use of Surface-Enhanced Raman Scattering for Detecting Molecular Evidence of Life in Rocks, Sediments, and Sedimentary Deposits. <i>Astrobiology</i> , 2010, 10, 629-641.	1.5	13
170	Hysteresis and Reversibility of a Superhydrophobic Photopatternable Silicone Elastomer. <i>Langmuir</i> , 2010, 26, 7248-7253.	1.6	11
171	Hysteresis in Multiphase Microfluidics at a T-Junction. <i>Langmuir</i> , 2010, 26, 9416-9422.	1.6	31
172	Monitoring the Uptake and Redistribution of Metal Nanoparticles during Cell Culture Using Surface-Enhanced Raman Scattering Spectroscopy. <i>Analytical Chemistry</i> , 2010, 82, 7369-7373.	3.2	42
173	Surface Acoustic Wave Nebulization of Peptides As a Microfluidic Interface for Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 3985-3989.	3.2	152
174	Signal Enhancement of Surface Enhanced Raman Scattering and Surface Enhanced Resonance Raman Scattering Using in Situ Colloidal Synthesis in Microfluidics. <i>Analytical Chemistry</i> , 2010, 82, 2119-2123.	3.2	70
175	Electrocoalescence Mechanisms of Microdroplets Using Localized Electric Fields in Microfluidic Channels. <i>Langmuir</i> , 2010, 26, 14443-14449.	1.6	66
176	Regional Electroporation of Single Cardiac Myocytes in a Focused Electric Field. <i>Analytical Chemistry</i> , 2010, 82, 585-592.	3.2	13
177	Rasagiline protects against alpha-synuclein induced sensitivity to oxidative stress in dopaminergic cells. <i>Neurochemistry International</i> , 2010, 57, 525-529.	1.9	35
178	Layer-by-Layer Quantum Dot Constructs Using Self-Assembly Methods. <i>Langmuir</i> , 2010, 26, 16934-16940.	1.6	14
179	SERS mapping of nanoparticle labels in single cells using a microfluidic chip. <i>Chemical Communications</i> , 2010, 46, 7921.	2.2	36
180	Measuring storage and loss moduli using optical tweezers: Broadband microrheology. <i>Physical Review E</i> , 2010, 81, 026308.	0.8	75

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181	A microdroplet-based shift register. <i>Lab on A Chip</i> , 2010, 10, 3069.	3.1	58
182	Miniaturised optoelectronic tweezers controlled by GaN micro light emitting diode arrays. , 2010, , .		0
183	Benchmarking methods of enhanced heavy oil recovery using a microscaled bead-pack. <i>Lab on A Chip</i> , 2010, 10, 819.	3.1	18
184	Microfluidic-based measurements of cytochrome P450 enzyme activity of primary mammalian hepatocytes. <i>Analyst, The</i> , 2010, 135, 1282.	1.7	8
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