

# Jonathan Cooper

## List of Publications by Year in descending order

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447  
papers

27,925  
citations

7561

77  
h-index

7944

149  
g-index

459  
all docs

459  
docs citations

459  
times ranked

24042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Complex I Deficiency in Parkinson's Disease. <i>Journal of Neurochemistry</i> , 1990, 54, 823-827.	2.1	1,860
2	MITOCHONDRIAL COMPLEX I DEFICIENCY IN PARKINSON'S DISEASE. <i>Lancet, The</i> , 1989, 333, 1269.	6.3	1,248
3	Reversible inhibition of cytochrome c oxidase, the terminal enzyme of the mitochondrial respiratory chain, by nitric oxide. <i>FEBS Letters</i> , 1994, 345, 50-54.	1.3	1,109
4	Mitochondrial defect in Huntington's disease caudate nucleus. <i>Annals of Neurology</i> , 1996, 39, 385-389.	2.8	690
5	Anatomic and Disease Specificity of NADH CoQ1Reductase (Complex I) Deficiency in Parkinson's Disease. <i>Journal of Neurochemistry</i> , 1990, 55, 2142-2145.	2.1	670
6	A review of the immobilization of enzymes in electropolymerized films. <i>Journal of Electroanalytical Chemistry</i> , 1993, 362, 1-12.	1.9	465
7	Biochemical abnormalities and excitotoxicity in Huntington's disease brain. <i>Annals of Neurology</i> , 1999, 45, 25-32.	2.8	439
8	A novel $\alpha$ -synuclein missense mutation in Parkinson disease. <i>Neurology</i> , 2013, 80, 1062-1064.	1.5	396
9	Irreversible Inhibition of Mitochondrial Complex I by 1-Methyl-4-Phenylpyridinium: Evidence for Free Radical Involvement. <i>Journal of Neurochemistry</i> , 1992, 58, 786-789.	2.1	368
10	Platelet mitochondria function in Parkinson's disease. <i>Annals of Neurology</i> , 1992, 32, 782-788.	2.8	337
11	Deficit of in vivo mitochondrial ATP production in patients with Friedreich ataxia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11492-11495.	3.3	337
12	Indices of oxidative stress and mitochondrial function in individuals with incidental Lewy body disease. <i>Annals of Neurology</i> , 1994, 35, 38-44.	2.8	333
13	BRAIN, SKELETAL MUSCLE AND PLATELET HOMOGENATE MITOCHONDRIAL FUNCTION IN PARKINSON'S DISEASE. <i>Brain</i> , 1992, 115, 333-342.	3.7	332
14	Analyses of mitochondrial respiratory chain function and mitochondrial DNA deletion in human skeletal muscle: Effect of ageing. <i>Journal of the Neurological Sciences</i> , 1992, 113, 91-98.	0.3	322
15	Complex I Inhibitors Induce Dose-Dependent Apoptosis in PC12 Cells: Relevance to Parkinson's Disease. <i>Journal of Neurochemistry</i> , 1994, 63, 1987-1990.	2.1	318
16	Mitochondrial dysfunction and free radical damage in the Huntington R6/2 transgenic mouse. <i>Annals of Neurology</i> , 2000, 47, 80-86.	2.8	315
17	Clinical, biochemical and molecular genetic correlations in Friedreich's ataxia. <i>Human Molecular Genetics</i> , 2000, 9, 275-282.	1.4	312
18	Mitochondrial myopathies: Clinical and biochemical features of 30 patients with major deletions of muscle mitochondrial DNA. <i>Annals of Neurology</i> , 1989, 26, 699-708.	2.8	309

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19	Mitochondrial DNA transmission of the mitochondrial defect in Parkinson's disease. <i>Annals of Neurology</i> , 1998, 44, 177-186.	2.8	301
20	The 2019 surface acoustic waves roadmap. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 353001.	1.3	236
21	Paper-based microfluidics for DNA diagnostics of malaria in low resource underserved rural communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4834-4842.	3.3	233
22	3D manipulation of particles into crystal structures using holographic optical tweezers. <i>Optics Express</i> , 2004, 12, 220.	1.7	230
23	Complex I, Iron, and ferritin in Parkinson's disease substantia nigra. <i>Annals of Neurology</i> , 1994, 36, 876-881.	2.8	229
24	Dual Color Plasmonic Pixels Create a Polarization Controlled Nano Color Palette. <i>ACS Nano</i> , 2016, 10, 492-498.	7.3	218
25	Mitochondria in the etiology and pathogenesis of parkinson's disease. <i>Annals of Neurology</i> , 1998, 44, S89-98.	2.8	206
26	Microfluidic Single-Cell Array Cytometry for the Analysis of Tumor Apoptosis. <i>Analytical Chemistry</i> , 2009, 81, 5517-5523.	3.2	197
27	Expression of mutant alpha-synuclein causes increased susceptibility to dopamine toxicity. <i>Human Molecular Genetics</i> , 2000, 9, 2683-2689.	1.4	182
28	Influence of microRNA deregulation on chaperone-mediated autophagy and $\alpha$ -synuclein pathology in Parkinson's disease. <i>Cell Death and Disease</i> , 2013, 4, e545-e545.	2.7	181
29	Assembly of 3-dimensional structures using programmable holographic optical tweezers. <i>Optics Express</i> , 2004, 12, 5475.	1.7	175
30	Shaping acoustic fields as a toolset for microfluidic manipulations in diagnostic technologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15162-15167.	3.3	171
31	Full length article. <i>Brain Research</i> , 1997, 777, 110-118.	1.1	167
32	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
33	Tumors on chips: oncology meets microfluidics. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 556-567.	2.8	159
34	Coenzyme Q <sub>10</sub> and vitamin E deficiency in Friedreich's ataxia: predictor of efficacy of vitamin E and coenzyme Q <sub>10</sub> therapy. <i>European Journal of Neurology</i> , 2008, 15, 1371-1379.	1.7	156
35	Surface Acoustic Wave Nebulization of Peptides As a Microfluidic Interface for Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 3985-3989.	3.2	152
36	Mitochondrial function, GSH and iron in neurodegeneration and Lewy body diseases. <i>Journal of the Neurological Sciences</i> , 1998, 158, 24-29.	0.3	147

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37	A new point mutation associated with mitochondrial encephalomyopathy. <i>Human Molecular Genetics</i> , 1993, 2, 2081-2087.	1.4	143
38	Direct electron transfer reactions between immobilized cytochrome c and modified gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1993, 347, 267-275.	1.9	142
39	Microrheology with optical tweezers. <i>Lab on A Chip</i> , 2009, 9, 2568.	3.1	138
40	Interactive approach to optical tweezers control. <i>Applied Optics</i> , 2006, 45, 897.	2.1	137
41	Comparison of FaxÅ©nâ€™s correction for a microsphere translating or rotating near a surface. <i>Physical Review E</i> , 2009, 79, 026301.	0.8	137
42	Assessment of biocompatibility of 3D printed photopolymers using zebrafish embryo toxicity assays. <i>Lab on A Chip</i> , 2016, 16, 291-297.	3.1	135
43	Microfluidic single cell arrays to interrogate signalling dynamics of individual, patient-derived hematopoietic stem cells. <i>Lab on A Chip</i> , 2009, 9, 2659.	3.1	134
44	A Missense Mutation of Cytochrome Oxidase Subunit II Causes Defective Assembly and Myopathy. <i>American Journal of Human Genetics</i> , 1999, 65, 1030-1039.	2.6	131
45	Oxidative-phosphorylation defects in liver of patients with Wilson's disease. <i>Lancet, The</i> , 2000, 356, 469-474.	6.3	130
46	3D interferometric optical tweezers using a single spatial light modulator. <i>Optics Express</i> , 2005, 13, 3777.	1.7	130
47	Surface acoustic waves induced micropatterning of cells in gelatin methacryloyl (GelMA) hydrogels. <i>Biofabrication</i> , 2017, 9, 015020.	3.7	126
48	Paperâ€™Origamiâ€™Based Multiplexed Malaria Diagnostics from Whole Blood. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15250-15253.	7.2	125
49	Mitochondrial function and parental sex effect in Huntington's disease. <i>Lancet, The</i> , 1990, 336, 749.	6.3	123
50	Molecular Mechanisms in Mitochondrial DNA Depletion Syndrome. <i>Human Molecular Genetics</i> , 1997, 6, 935-942.	1.4	121
51	Micron-Scale Patterning of Biological Molecules. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 91-93.	4.4	116
52	Implementation of Multichannel Sensors for Remote Biomedical Measurements in a Microsystems Format. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 525-535.	2.5	116
53	Molecular clutch drives cell response to surface viscosity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1192-1197.	3.3	115
54	Microrheology with optical tweezers: data analysis. <i>New Journal of Physics</i> , 2012, 14, 115032.	1.2	109

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55	Nanofabrication of electrode arrays by electron-beam and nanoimprint lithographies. <i>Lab on A Chip</i> , 2006, 6, 1020.	3.1	107
56	On-chip electrocoalescence of microdroplets as a function of voltage, frequency and droplet size. <i>Lab on A Chip</i> , 2009, 9, 2652.	3.1	107
57	Liver failure associated with mitochondrial DNA depletion. <i>Journal of Hepatology</i> , 1998, 28, 556-563.	1.8	106
58	Phononic crystal structures for acoustically driven microfluidic manipulations. <i>Lab on A Chip</i> , 2011, 11, 323-328.	3.1	105
59	Metabolic monitoring of the electrically stimulated single heart cell within a microfluidic platform. <i>Lab on A Chip</i> , 2006, 6, 1424.	3.1	104
60	Micromachining Sensors for Electrochemical Measurement in Subnanoliter Volumes. <i>Analytical Chemistry</i> , 1997, 69, 253-258.	3.2	103
61	Cyclosporin inhibition of apoptosis induced by mitochondrial complex I toxins. <i>Brain Research</i> , 1998, 809, 12-17.	1.1	102
62	Plasmonic Split-Ring Resonators as Dichroic Nanophotonic DNA Biosensors. <i>Journal of the American Chemical Society</i> , 2009, 131, 17615-17619.	6.6	102
63	Mitochondrial function in Parkinson's disease. <i>Annals of Neurology</i> , 1992, 32, S116-S124.	2.8	96
64	Nuclear complementation restores mtDNA levels in cultured cells from a patient with mtDNA depletion. <i>American Journal of Human Genetics</i> , 1993, 53, 663-9.	2.6	95
65	Cardiac energetics are abnormal in Friedreich ataxia patients in the absence of cardiac dysfunction and hypertrophy: An in vivo <sup>31</sup> P magnetic resonance spectroscopy study. <i>Cardiovascular Research</i> , 2001, 52, 111-119.	1.8	93
66	Creating permanent 3D arrangements of isolated cells using holographic optical tweezers. <i>Lab on A Chip</i> , 2005, 5, 1224.	3.1	91
67	Friedreich's Ataxia: Disease mechanisms, antioxidant and Coenzyme Q <sub>10</sub> therapy. <i>BioFactors</i> , 2003, 18, 163-171.	2.6	88
68	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
69	Evaluation of Three-Dimensional Microchannel Glass Biochips for Multiplexed Nucleic Acid Fluorescence Hybridization Assays. <i>Analytical Chemistry</i> , 2001, 73, 2412-2420.	3.2	85
70	Ultra-Low-Volume, Real-Time Measurements of Lactate from the Single Heart Cell Using Microsystems Technology. <i>Analytical Chemistry</i> , 2002, 74, 908-914.	3.2	85
71	Aberration correction in holographic optical tweezers. <i>Optics Express</i> , 2006, 14, 4169.	1.7	85
72	Flame Hydrolysis Deposition of Glass on Silicon for the Integration of Optical and Microfluidic Devices. <i>Analytical Chemistry</i> , 2000, 72, 1093-1097.	3.2	84

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73	SERRS. In Situ Substrate Formation and Improved Detection Using Microfluidics. <i>Analytical Chemistry</i> , 2002, 74, 1503-1508.	3.2	83
74	Gradient Microfluidics Enables Rapid Bacterial Growth Inhibition Testing. <i>Analytical Chemistry</i> , 2014, 86, 3131-3137.	3.2	83
75	Quantitation of a mitochondrial DNA deletion in Parkinson's disease. <i>FEBS Letters</i> , 1992, 299, 218-222.	1.3	79
76	Phononic Crystals for Shaping Fluids. <i>Advanced Materials</i> , 2011, 23, 1458-1462.	11.1	79
77	Acoustic suppression of the coffee-ring effect. <i>Soft Matter</i> , 2015, 11, 7207-7213.	1.2	79
78	Complex I function in familial and sporadic dystonia. <i>Annals of Neurology</i> , 1997, 41, 556-559.	2.8	78
79	Optimization of the Geometry and Porosity of Microelectrode Arrays for Sensor Design. <i>Analytical Chemistry</i> , 2002, 74, 5717-5725.	3.2	78
80	Defining the trapping limits of holographical optical tweezers. <i>Journal of Modern Optics</i> , 2004, 51, 409-414.	0.6	77
81	Platelet mitochondrial function in Leber's hereditary optic neuropathy. <i>Journal of the Neurological Sciences</i> , 1994, 122, 80-83.	0.3	76
82	Bead-Based DNA Diagnostic Assay for Chlamydia Using Nanoparticle-Mediated Surface-Enhanced Resonance Raman Scattering Detection within a Lab-on-a-Chip Format. <i>Analytical Chemistry</i> , 2007, 79, 2844-2849.	3.2	76
83	Direct electron transfer reactions of glucose oxidase immobilised at a self-assembled monolayer. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1293.	2.0	75
84	Micromachined Nanocalorimetric Sensor for Ultra-Low-Volume Cell-Based Assays. <i>Analytical Chemistry</i> , 2002, 74, 2190-2197.	3.2	75
85	Measuring storage and loss moduli using optical tweezers: Broadband microrheology. <i>Physical Review E</i> , 2010, 81, 026308.	0.8	75
86	Tuneable surface acoustic waves for fluid and particle manipulations on disposable chips. <i>Lab on A Chip</i> , 2010, 10, 1898.	3.1	75
87	Rapid Veterinary Diagnosis of Bovine Reproductive Infectious Diseases from Semen Using Paper-Origami DNA Microfluidics. <i>ACS Sensors</i> , 2018, 3, 403-409.	4.0	75
88	Iron induced oxidative stress and mitochondrial dysfunction: relevance to Parkinson's disease. <i>Brain Research</i> , 1993, 627, 349-353.	1.1	74
89	Smoking and mitochondrial function: a model for environmental toxins. <i>QJM - Monthly Journal of the Association of Physicians</i> , 1993, 86, 657-660.	0.2	74
90	Mitochondrial DNA (mtDNA) diseases: correlation of genotype to phenotype. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1995, 1271, 135-140.	1.8	74

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91	The influence of nuclear background on the biochemical expression of 3460 Leber's hereditary optic neuropathy. <i>Annals of Neurology</i> , 1998, 44, 187-193.	2.8	74
92	Miniaturized Embryo Array for Automated Trapping, Immobilization and Microperfusion of Zebrafish Embryos. <i>PLoS ONE</i> , 2012, 7, e36630.	1.1	74
93	Characterization of cellular chemical dynamics using combined microfluidic and Raman techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 833-840.	1.9	73
94	Molecular defects of NADH-ubiquinone oxidoreductase (Complex I) in mitochondrial diseases. <i>Journal of Bioenergetics and Biomembranes</i> , 1988, 20, 365-382.	1.0	72
95	Glutamate oxidase enzyme electrodes: microsensors for neurotransmitter determination using electrochemically polymerized permselective films. <i>Journal of Electroanalytical Chemistry</i> , 1995, 388, 143-149.	1.9	72
96	Microrheology with Optical Tweezers: Measuring the relative viscosity of solutions "at a glance"™. <i>Scientific Reports</i> , 2015, 5, 8831.	1.6	71
97	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
98	Characterising the formation of a bioelectrochemical interface at a self-assembled monolayer using X-ray photoelectron spectroscopy. <i>Bioelectrochemistry</i> , 1997, 42, 15-23.	1.0	69
99	Rescue of the Friedreich's ataxia knockout mouse by human YAC transgenesis. <i>Neurogenetics</i> , 2001, 3, 185-193.	0.7	68
100	Production of Quantum Dot Barcodes Using Biological Self-Assembly. <i>Advanced Materials</i> , 2009, 21, 4020-4024.	11.1	68
101	Patterning and Regeneration of Surfaces with Antibodies. <i>Analytical Chemistry</i> , 1995, 67, 3605-3607.	3.2	67
102	MOLECULAR BASIS OF MITOCHONDRIAL MYOPATHIES: POLYPEPTIDE ANALYSIS IN COMPLEX-1 DEFICIENCY. <i>Lancet</i> , The, 1988, 331, 500-503.	6.3	66
103	Direct, Real-Time Sensing of Free Radical Production by Activated Human Glioblastoma Cells. <i>Free Radical Biology and Medicine</i> , 1998, 24, 1304-1309.	1.3	66
104	Electrocoalescence Mechanisms of Microdroplets Using Localized Electric Fields in Microfluidic Channels. <i>Langmuir</i> , 2010, 26, 14443-14449.	1.6	66
105	Mitochondrial respiratory chain function in multiple system atrophy. <i>Movement Disorders</i> , 1997, 12, 418-422.	2.2	65
106	Optical tweezers: wideband microrheology. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044022.	1.0	65
107	A 31P magnetic resonance spectroscopy study of mitochondrial function in skeletal muscle of patients with Parkinson's disease. <i>Journal of the Neurological Sciences</i> , 1994, 125, 77-81.	0.3	64
108	Functional consequences of the 3460-bp mitochondrial DNA mutation associated with Leber's hereditary optic neuropathy. <i>Journal of the Neurological Sciences</i> , 1999, 165, 10-17.	0.3	64

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109	Toward a miniature wireless integrated multisensor microsystem for industrial and biomedical applications. <i>IEEE Sensors Journal</i> , 2002, 2, 628-635.	2.4	64
110	Role of Oxidative Damage in Friedreich's Ataxia. <i>Neurochemical Research</i> , 2004, 29, 561-567.	1.6	64
111	Multipoint Holographic Optical Velocimetry in Microfluidic Systems. <i>Physical Review Letters</i> , 2006, 96, 134502.	2.9	64
112	Lipid topology and electrostatic interactions underpin lytic activity of linear cationic antimicrobial peptides in membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8324-E8332.	3.3	63
113	Single-Cell Measurements of Purine Release Using a Micromachined Electroanalytical Sensor. <i>Analytical Chemistry</i> , 1998, 70, 1164-1170.	3.2	62
114	Continuous cell sorting in a flow based on single cell resonance Raman spectra. <i>Lab on A Chip</i> , 2016, 16, 1420-1429.	3.1	62
115	Congenital encephalomyopathy and adult-onset myopathy and diabetes mellitus: different phenotypic associations of a new heteroplasmic mtDNA tRNA glutamic acid mutation. <i>American Journal of Human Genetics</i> , 1995, 56, 1026-33.	2.6	62
116	Integrated immunoassay using tuneable surface acoustic waves and lensfree detection. <i>Lab on A Chip</i> , 2011, 11, 2725.	3.1	61
117	Electrochemical Sensors for Direct Reagentless Measurement of Superoxide Production by Human Neutrophils. <i>Free Radical Research Communications</i> , 1992, 17, 399-406.	1.8	60
118	The first SERRS multiplexing from labelled oligonucleotides in a microfluidics lab-on-a-chip. <i>Chemical Communications</i> , 2004, , 118.	2.2	60
119	Mitochondrial Myopathy with a Defect of Mitochondrial-Protein Transport. <i>New England Journal of Medicine</i> , 1990, 323, 37-42.	13.9	59
120	Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor. <i>Analytica Chimica Acta</i> , 1995, 310, 251-256.	2.6	59
121	Mitochondrial dysfunction in neurodegeneration. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 175-183.	1.0	59
122	Design and fabrication of a silica on silicon integrated optical biochip as a fluorescence microarray platform. <i>Biosensors and Bioelectronics</i> , 2003, 18, 175-184.	5.3	59
123	Multiple plasmon resonances from gold nanostructures. <i>Applied Physics Letters</i> , 2007, 90, 143105.	1.5	59
124	Detection of Nitrosyl Complexes in Human Substantia Nigra, in Relation to Parkinson's Disease. <i>Biochemical and Biophysical Research Communications</i> , 1996, 228, 298-305.	1.0	58
125	A microdroplet-based shift register. <i>Lab on A Chip</i> , 2010, 10, 3069.	3.1	58
126	Thermostable reduced nicotinamide adenine dinucleotide oxidase: application to amperometric enzyme assay. <i>Analytical Chemistry</i> , 1989, 61, 25-29.	3.2	57



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127	Dynamic Analysis of Drug-Induced Cytotoxicity Using Chip-Based Dielectrophoretic Cell Immobilization Technology. <i>Analytical Chemistry</i> , 2011, 83, 2133-2144.	3.2	56
128	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
129	Low sample volume origami-paper-based graphene-modified aptasensors for label-free electrochemical detection of cancer biomarker-EGFR. <i>Microsystems and Nanoengineering</i> , 2020, 6, 32.	3.4	55
130	Mitochondrial function in neurodegeneration and ageing. <i>Mutation Research - DNAging</i> , 1992, 275, 133-143.	3.3	54
131	Lab-on-a-chip technologies for proteomic analysis from isolated cells. <i>Journal of the Royal Society Interface</i> , 2008, 5, S123-30.	1.5	54
132	±-Synuclein expression in HEK293 cells enhances the mitochondrial sensitivity to rotenone. <i>Neuroscience Letters</i> , 2003, 351, 29-32.	1.0	53
133	Monitoring Genetic Population Biomarkers for Wastewater-Based Epidemiology. <i>Analytical Chemistry</i> , 2017, 89, 9941-9945.	3.2	53
134	Intracellular Protein Determination Using Droplet-Based Immunoassays. <i>Analytical Chemistry</i> , 2011, 83, 5361-5368.	3.2	52
135	Characterization of electron transfer reactions of microperoxidase assembled at short-chain thiol-monolayers on gold. <i>Biosensors and Bioelectronics</i> , 1997, 12, 1143-1155.	5.3	51
136	Electrically initiated upstream coalescence cascade of droplets in a microfluidic flow. <i>Physical Review E</i> , 2009, 80, 046303.	0.8	51
137	Chip-Based Dynamic Real-Time Quantification of Drug-Induced Cytotoxicity in Human Tumor Cells. <i>Analytical Chemistry</i> , 2009, 81, 6952-6959.	3.2	51
138	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
139	Characterisation of spatial and temporal changes in pH gradients in microfluidic channels using optically trapped fluorescent sensors. <i>Lab on A Chip</i> , 2006, 6, 788.	3.1	50
140	Tunable visible resonances in crescent shaped nano-split-ring resonators. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	50
141	Friedreich's ataxia: Coenzyme Q10 and vitamin E therapy. <i>Mitochondrion</i> , 2007, 7, S127-S135.	1.6	50
142	Surface-Enhanced Raman Signatures of Pigmentation of Cyanobacteria from within Geological Samples in a Spectroscopic-Microfluidic Flow Cell. <i>Analytical Chemistry</i> , 2007, 79, 7036-7041.	3.2	50
143	Smartphone-based DNA diagnostics for malaria detection using deep learning for local decision support and blockchain technology for security. <i>Nature Electronics</i> , 2021, 4, 615-624.	13.1	50
144	Mitochondrial DNA mutation underlying Leigh's syndrome: Clinical, pathological, biochemical, and genetic studies of a patient presenting with progressive myoclonic epilepsy. <i>Journal of the Neurological Sciences</i> , 1994, 121, 57-65.	0.3	49

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145	Microfabricated analytical systems for integrated cancer cytomics. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 193-209.	1.9	49
146	Integration of paper microfluidic sensors into contact lenses for tear fluid analysis. <i>Lab on A Chip</i> , 2020, 20, 3970-3979.	3.1	49
147	Miniaturized analytical methods for determination of environmental contaminants of emerging concern – A review. <i>Analytica Chimica Acta</i> , 2021, 1158, 238108.	2.6	49
148	Mitochondrial DNA Depletion Syndrome is Expressed in Amniotic Fluid Cell Cultures. <i>American Journal of Pathology</i> , 1999, 155, 67-70.	1.9	48
149	Stimulation of Single Isolated Adult Ventricular Myocytes within a Low Volume Using a Planar Microelectrode Array. <i>Biophysical Journal</i> , 2003, 85, 1766-1774.	0.2	47
150	Dynamic analysis of apoptosis using cyanine SYTO probes: From classical to microfluidic cytometry. <i>Experimental Cell Research</i> , 2009, 315, 1706-1714.	1.2	47
151	i-Rheo: Measuring the materials' linear viscoelastic properties in a step<i></i>!. <i>Journal of Rheology</i> , 2016, 60, 649-660.	1.3	47
152	Single-Cell Measurements of Human Neutrophil Activation Using Electrorotation. <i>Analytical Chemistry</i> , 1998, 70, 2607-2612.	3.2	46
153	The liquid-liquid diffusive extraction of hydrocarbons from a North Sea oil using a microfluidic format. <i>Lab on A Chip</i> , 2006, 6, 740-743.	3.1	46
154	Biocompatibility of a Lab-on-a-Pill Sensor in Artificial Gastrointestinal Environments. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 2333-2340.	2.5	46
155	Application of quantum dot barcodes prepared using biological self-assembly to multiplexed immunoassays. <i>Chemical Communications</i> , 2010, 46, 2814.	2.2	46
156	Nanogap Ring Antennae as Plasmonically Coupled SERRS Substrates. <i>Small</i> , 2011, 7, 119-125.	5.2	45
157	NADH oxidase from the extreme thermophile <i>Thermus aquaticus</i> YT-1. Purification and characterisation. <i>FEBS Journal</i> , 1988, 174, 267-271.	0.2	44
158	Screening of Biomineralization Using Microfluidics. <i>Analytical Chemistry</i> , 2009, 81, 473-478.	3.2	44
159	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
160	Photo-patterning of sensor surfaces with biomolecular structures: characterisation using AFM and fluorescence microscopy. <i>Biosensors and Bioelectronics</i> , 1995, 10, 841-846.	5.3	43
161	Strategies towards functionalised electronically conducting organic copolymers. <i>Journal of Materials Chemistry</i> , 2000, 10, 107-114.	6.7	43
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