Marc J Madou

List of Publications by Year
in descending order

313 papers	14,185 citations	18482 62 h-index	32842 100 g-index
320 all docs	320 docs citations	320 times ranked	12012 citing authors

#	Article	IF	Citations
1	Fundamentals of Microfabrication. , 0, , .		1,328
2	Centrifugal microfluidics for biomedical applications. Lab on A Chip, 2010, 10, 1758.	6.0	617
3	LAB ON A CD. Annual Review of Biomedical Engineering, 2006, 8, 601-628.	12.3	529
4	Design of a Compact Disk-like Microfluidic Platform for Enzyme-Linked Immunosorbent Assay. Analytical Chemistry, 2004, 76, 1832-1837.	6.5	395
5	Photoresist-Derived Carbon for Microelectromechanical Systems and Electrochemical Applications. Journal of the Electrochemical Society, 2000, 147, 277.	2.9	297
6	Nanotechnology for COVID-19: Therapeutics and Vaccine Research. ACS Nano, 2020, 14, 7760-7782.	14.6	289
7	Genetically engineered protein in hydrogels tailors stimuli-responsive characteristics. Nature Materials, 2005, 4, 298-302.	27.5	273
8	Controlled Continuous Patterning of Polymeric Nanofibers on Three-Dimensional Substrates Using Low-Voltage Near-Field Electrospinning. Nano Letters, 2011, 11, 1831-1837.	9.1	209
9	A novel method for the fabrication of high-aspect ratio C-MEMS structures. Journal of Microelectromechanical Systems, 2005, 14, 348-358.	2.5	202
10	Title is missing!. Biomedical Microdevices, 2001, 3, 245-254.	2.8	189
11	MEMS-based sample preparation for molecular diagnostics. Analytical and Bioanalytical Chemistry, 2002, 372, 49-65.	3.7	184
12	C-MEMS for the Manufacture of 3D Microbatteries. Electrochemical and Solid-State Letters, 2004, 7, A435.	2.2	179
13	Fabrication and properties of a carbon/polypyrrole three-dimensional microbattery. Journal of Power Sources, 2008, 178, 795-800.	7.8	175
14	A pH Electrode Based on Melt-Oxidized Iridium Oxide. Journal of the Electrochemical Society, 2001, 148, H29.	2.9	164
15	Improved graphitization and electrical conductivity of suspended carbon nanofibers derived from carbon nanotube/polyacrylonitrile composites by directed electrospinning. Carbon, 2012, 50, 1753-1761.	10.3	159
16	Microactuators toward microvalves for responsive controlled drug delivery. Sensors and Actuators B: Chemical, 2000, 67, 149-160.	7.8	153
17	Experimental investigation and numerical simulation of injection molding with micro-features. Polymer Engineering and Science, 2002, 42, 871-888.	3.1	150
18	Pyrolysis of Negative Photoresists to Fabricate Carbon Structures for Microelectromechanical Systems and Electrochemical Applications. Journal of the Electrochemical Society, 2002, 149, E78.	2.9	138

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19	A new approach to gas sensing with nanotechnology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 2448-2473.	3.4	133
20	A microdevice for rapid, monoplex and colorimetric detection of foodborne pathogens using a centrifugal microfluidic platform. Biosensors and Bioelectronics, 2018, 100, 96-104.	10.1	131
21	Cell lysis on a microfluidic CD (compact disc). Lab on A Chip, 2004, 4, 516.	6.0	130
22	A long-term stable iridium oxide pH electrode. Sensors and Actuators B: Chemical, 2002, 81, 313-315.	7.8	129
23	The integration of 3D carbon-electrode dielectrophoresis on a CD-like centrifugal microfluidic platform. Lab on A Chip, 2010, 10, 1030.	6.0	129
24	Serial siphon valving for centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2010, 9, 55-63.	2.2	123
25	Electrochemical Studies of Carbon Films from Pyrolyzed Photoresist. Journal of the Electrochemical Society, 1998, 145, 2314-2319.	2.9	117
26	A microfluidic lab-on-a-disc integrated loop mediated isothermal amplification for foodborne pathogen detection. Sensors and Actuators B: Chemical, 2016, 227, 600-609.	7.8	114
27	Development of a Fully Integrated Analysis System for Ions Based on Ion-Selective Optodes and Centrifugal Microfluidics. Analytical Chemistry, 2001, 73, 3940-3946.	6.5	112
28	A novel, compact disk-like centrifugal microfluidics system for cell lysis and sample homogenization. Colloids and Surfaces B: Biointerfaces, 2007, 58, 44-51.	5.0	112
29	From MEMS to NEMS with carbon. Biosensors and Bioelectronics, 2005, 20, 2181-2187.	10.1	110
30	Validation of a centrifugal microfluidic sample lysis and homogenization platform for nucleic acidextraction with clinical samples. Lab on A Chip, 2010, 10, 363-371.	6.0	104
31	Microfluidic Device for Rapid (<15 min) Automated Microarray Hybridization. Clinical Chemistry, 2005, 51, 1836-1844.	3.2	103
32	One-step maskless grayscale lithography for the fabrication of 3-dimensional structures in SU-8. Sensors and Actuators B: Chemical, 2011, 153, 125-134.	7.8	103
33	Artificial Muscle Material with Fast Electroactuation under Neutral pH Conditions. Chemistry of Materials, 2004, 16, 2499-2502.	6.7	102
34	Centrifugal microfluidic platform for rapid PCR amplification using integrated thermoelectric heating and ice-valving. Sensors and Actuators B: Chemical, 2012, 161, 1191-1197.	7.8	102
35	Electrical Properties and Shrinkage of Carbonized Photoresist Films and the Implications for Carbon Microelectromechanical Systems Devices in Conductive Media. Journal of the Electrochemical Society, 2005, 152, J136.	2.9	101
36	A novel approach to dielectrophoresis using carbon electrodes. Electrophoresis, 2011, 32, 2385-2392.	2.4	97

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37	Infrared controlled waxes for liquid handling and storage on a CD-microfluidic platform. Lab on A Chip, 2011, 11, 723-726.	6.0	94
38	Large-volume centrifugal microfluidic device for blood plasma separation. Bioanalysis, 2010, 2, 1701-1710.	1.5	93
39	Electrochemical Measurements on Pt, Ir, and Ti Oxides as pH Probes. Journal of the Electrochemical Society, 1984, 131, 1089-1094.	2.9	89
40	Particle/cell separation on microfluidic platforms based on centrifugation effect: a review. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	89
41	CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. Micromachines, 2016, 7, 22.	2.9	88
42	Bulk and surface characterization of the silicon electrode. Surface Science, 1981, 108, 135-152.	1.9	87
43	All-carbon suspended nanowire sensors as a rapid highly-sensitive label-free chemiresistive biosensing platform. Biosensors and Bioelectronics, 2018, 107, 145-152.	10.1	82
44	Pneumatic pumping in centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2010, 9, 541-549.	2.2	81
45	Anisotropic gold nanoparticles: A survey of recent synthetic methodologies. Coordination Chemistry Reviews, 2020, 425, 213489.	18.8	81
46	Lab-on-a-CD: A Fully Integrated Molecular Diagnostic System. Journal of the Association for Laboratory Automation, 2016, 21, 323-355.	2.8	79
47	Mechanical characterizations of cast Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/Polyvinyl Alcohol thin films. Synthetic Metals, 2011, 161, 2259-2267.	3.9	78
48	Fluorescent Ion-Selective Optode Membranes Incorporated onto a Centrifugal Microfluidics Platform. Analytical Chemistry, 2002, 74, 5569-5575.	6.5	77
49	DNA hybridization detection by label free versus impedance amplifying label with impedance spectroscopy. Sensors and Actuators B: Chemical, 2006, 114, 58-64.	7.8	77
50	Thermo-pneumatic pumping in centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2011, 11, 643-652.	2.2	77
51	Carbon post-microarrays for glucose sensors. Biosensors and Bioelectronics, 2008, 23, 1637-1644.	10.1	76
52	Polymer actuator valves toward controlled drug delivery application. Biosensors and Bioelectronics, 2006, 21, 2094-2099.	10.1	75
53	Title is missing!. Biomedical Microdevices, 2001, 3, 339-351.	2.8	73
54	Automated microfluidic compact disc (CD) cultivation system of Caenorhabditis elegans. Sensors and Actuators B: Chemical, 2007, 122, 511-518.	7.8	72

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55	Fabrication and characterization of three-dimensional carbon electrodes for lithium-ion batteries. Journal of Power Sources, 2008, 183, 730-740.	7.8	70
56	Multiscale Carbon Structures Fabricated by Direct Micropatterning of Electrospun Mats of SU-8 Photoresist Nanofibers. Langmuir, 2010, 26, 2218-2222.	3.5	70
57	Carbon Interdigitated Array Nanoelectrodes for Electrochemical Applications. Journal of the Electrochemical Society, 2011, 158, J76.	2.9	70
58	Flow-enhanced electrochemical immunosensors on centrifugal microfluidic platforms. Lab on A Chip, 2013, 13, 3747.	6.0	69
59	From cellular lysis to microarray detection, an integrated thermoplastic elastomer (TPE) point of care Lab on a Disc. Lab on A Chip, 2015, 15, 406-416.	6.0	69
60	Investigation into the Applicability of the Centrifugal Microfluidics Platform for the Development of Proteinâ˜Ligand Binding Assays Incorporating Enhanced Green Fluorescent Protein as a Fluorescent Reporter. Analytical Chemistry, 2004, 76, 7263-7268.	6.5	68
61	A multiplexed immunoassay system based upon reciprocating centrifugal microfluidics. Review of Scientific Instruments, 2011, 82, 064303.	1.3	67
62	3-D electrode designs for flow-through dielectrophoretic systems. Electrophoresis, 2005, 26, 3745-3757.	2.4	66
63	Fabrication and electrical conductivity of suspended carbon nanofiber arrays. Carbon, 2011, 49, 1727-1732.	10.3	66
64	Increased Graphitization in Electrospun Single Suspended Carbon Nanowires Integrated with Carbon-MEMS and Carbon-NEMS Platforms. ACS Applied Materials & Interfaces, 2012, 4, 34-39.	8.0	64
65	Voltage-switchable artificial muscles actuating at near neutral pH. Sensors and Actuators B: Chemical, 2006, 115, 379-383.	7.8	63
66	Whole-cell-reporter-gene-based biosensing systems on a compact disk microfluidics platform. Analytical Biochemistry, 2005, 342, 11-19.	2.4	62
67	Pyrolysed 3Dâ€Carbon Scaffolds Induce Spontaneous Differentiation of Human Neural Stem Cells and Facilitate Realâ€Time Dopamine Detection. Advanced Functional Materials, 2014, 24, 7042-7052.	14.9	62
68	Passive flow switching valves on a centrifugal microfluidic platform. Sensors and Actuators B: Chemical, 2008, 128, 613-621.	7.8	61
69	Characterization of DNA hybridization kinetics in a microfluidic flow channel. Sensors and Actuators B: Chemical, 2006, 113, 281-289.	7.8	60
70	Onâ€line separation of bacterial cells by carbonâ€electrode dielectrophoresis. Electrophoresis, 2010, 31, 2921-2928.	2.4	60
71	<title>LabCD: a centrifuge-based microfluidic platform for diagnostics</title>. , 1998, , .		58
72	Carbon microelectromechanical systems as a substratum for cell growth. Biomedical Materials (Bristol), 2008, 3, 034116.	3.3	58

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73	Reciprocating flow-based centrifugal microfluidics mixer. Review of Scientific Instruments, 2009, 80, 075102.	1.3	58
74	Latex micro-balloon pumping in centrifugal microfluidic platforms. Lab on A Chip, 2014, 14, 988.	6.0	58
75	Vacuum/Compression Valving (VCV) Using Parrafin-Wax on a Centrifugal Microfluidic CD Platform. PLoS ONE, 2013, 8, e58523.	2.5	54
76	Fabrication of suspended carbon microstructures by e-beam writer and pyrolysis. Carbon, 2006, 44, 2602-2607.	10.3	52
77	Three-Dimensional Carbon Interdigitated Electrode Arrays for Redox-Amplification. Analytical Chemistry, 2014, 86, 2963-2971.	6.5	52
78	Electrical conductivity of polymer blends of poly(3,4â€ethylenedioxythiophene): Poly(styrenesulfonate): Nâ€methylâ€2â€pyrrolidinone and polyvinyl alcohol. Journal of Applied Polymer Science, 2012, 125, 3134-3141.	2.6	51
79	Monolithic carbon structures including suspended single nanowires and nanomeshes as a sensor platform. Nanoscale Research Letters, 2013, 8, 492.	5.7	50
80	Synthesis of carbon xerogel particles and fractal-like structures. Chemical Engineering Science, 2009, 64, 1536-1543.	3.8	49
81	Optimization of Carbon Electrodes Derived from Epoxy-based Photoresist. Journal of the Electrochemical Society, 2013, 160, B132-B137.	2.9	49
82	Synthesis, Purification, and Characterization of Carbon Dots from Non-Activated and Activated Pyrolytic Carbon Black. Nanomaterials, 2022, 12, 298.	4.1	49
83	Numerical modeling of transport and accumulation of DNA on electronically active biochips. Sensors and Actuators B: Chemical, 2003, 94, 81-98.	7.8	48
84	Investigation of Photoelectrochemical Corrosion of Semiconductors: III . Effects of Metal Layer on Stability of. Journal of the Electrochemical Society, 1981, 128, 1939-1943.	2.9	47
85	Theoretical development and critical analysis of burst frequency equations for passive valves on centrifugal microfluidic platforms. Medical and Biological Engineering and Computing, 2013, 51, 525-535.	2.8	47
86	Anomalous mixing behaviour in rotationally actuated microfluidic devices. Lab on A Chip, 2011, 11, 2823.	6.0	44
87	Graphitizing Non-graphitizable Carbons by Stress-induced Routes. Scientific Reports, 2017, 7, 16551.	3.3	43
88	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. Biofabrication, 2020, 12, 035023.	7.1	43
89	Investigation of Photoelectrochemical Corrosion of Semiconductors: II . Kinetic Analysis of Corrosionâ€Competition Reactions on. Journal of the Electrochemical Society, 1981, 128, 1527-1531.	2.9	42
90	Impedance Measurements at the Nâ€and Pâ€Type GaP Single Crystal Electrode. Journal of the Electrochemical Society, 1977, 124, 1623-1627.	2.9	41

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91	From Batch to Continuous Manufacturing of Microbiomedical Devices. Chemical Reviews, 2000, 100, 2679-2692.	47.7	41
92	Dynamic automated DNA hybridization on a CD (compact disc) fluidic platform. Sensors and Actuators B: Chemical, 2006, 114, 173-181.	7.8	40
93	Human hair-derived hollow carbon microfibers for electrochemical sensing. Carbon, 2016, 107, 872-877.	10.3	40
94	Reviewâ€"Covalent Functionalization of Carbon Nanomaterials for Biosensor Applications: An Update. Journal of the Electrochemical Society, 2018, 165, B103-B117.	2.9	40
95	3-D Micro and Nano Technologies for Improvements in Electrochemical Power Devices. Micromachines, 2014, 5, 171-203.	2.9	39
96	Aging effect of plasma-treated carbon surfaces: An overlooked phenomenon. Carbon, 2020, 169, 32-44.	10.3	39
97	A Case for Fractal Electrodes in Electrochemical Applications. Journal of the Electrochemical Society, 2007, 154, P1.	2.9	38
98	Micro and nano patterning of carbon electrodes for bioMEMS. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 252-265.	0.9	38
99	Biosensing enhancement of dengue virus using microballoon mixers on centrifugal microfluidic platforms. Biosensors and Bioelectronics, 2015, 67, 424-430.	10.1	38
100	Impedance Measurements and Photoeffects on Ni Electrodes. Journal of the Electrochemical Society, 1983, 130, 1056-1061.	2.9	37
101	Development of novel passive check valves for the microfluidic CD platform. Sensors and Actuators A: Physical, 2015, 222, 245-254.	4.1	37
102	Pyrolysis-induced shrinking of three-dimensional structures fabricated by two-photon polymerization: experiment and theoretical model. Microsystems and Nanoengineering, 2019, 5, 38.	7.0	37
103	Continuous glucose sensor using novel genetically engineered binding polypeptides towards in vivo applications. Sensors and Actuators B: Chemical, 2010, 149, 51-58.	7.8	35
104	Planar microelectrochemical carbon monoxide sensors. Sensors and Actuators B: Chemical, 1990, 1, 319-325.	7.8	34
105	Peer Reviewed: Responsive Drug Delivery Systems. Analytical Chemistry, 2003, 75, 206 A-213 A.	6.5	34
106	Design, fabrication, and initial testing of a miniature PEM fuel cell with micro-scale pyrolyzed carbon fluidic plates. Journal of Power Sources, 2006, 162, 369-379.	7.8	34
107	Gravity Force Transduced by the MEC-4/MEC-10 DEG/ENaC Channel Modulates DAF-16/FoxO Activity in Caenorhabditis elegans. Genetics, 2007, 177, 835-845.	2.9	34
108	Centrifugal Microfluidics with Integrated Sensing Microdome Optodes for Multiion Detection. Analytical Chemistry, 2007, 79, 8046-8054.	6.5	34

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109	Push pull microfluidics on a multi-level 3D CD. Lab on A Chip, 2013, 13, 3199.	6.0	34
110	Integrating Biosensors and Drug Delivery: A Step Closer Toward Scalable Responsive Drugâ€Ðelivery Systems. Advanced Materials, 2009, 21, 656-660.	21.0	33
111	Electrolysis-Induced Pneumatic Pressure for Control of Liquids in a Centrifugal System. Journal of the Electrochemical Society, 2011, 158, P130.	2.9	33
112	Present Technology and Future Trends in Point-of-Care Microfluidic Diagnostics. Methods in Molecular Biology, 2013, 949, 3-23.	0.9	33
113	Electrochemical velocimetry on centrifugal microfluidic platforms. Lab on A Chip, 2013, 13, 3253.	6.0	33
114	Porous glassy carbon formed by rapid pyrolysis of phenol-formaldehyde resins and its performance as electrode material for electrochemical double layer capacitors. Journal of Analytical and Applied Pyrolysis, 2014, 108, 12-18.	5.5	33
115	Microsphere integrated microfluidic disk: synergy of two techniques for rapid and ultrasensitive dengue detection. Scientific Reports, 2015, 5, 16485.	3.3	33
116	Reversible thermo-pneumatic valves on centrifugal microfluidic platforms. Lab on A Chip, 2015, 15, 3358-3369.	6.0	32
117	Characterization of Chemically Activated Pyrolytic Carbon Black Derived from Waste Tires as a Candidate for Nanomaterial Precursor. Nanomaterials, 2020, 10, 2213.	4.1	32
118	Numerical modeling and experimental validation of uniform microchamber filling in centrifugal microfluidics. Lab on A Chip, 2010, 10, 876.	6.0	31
119	Geometry effects on blood separation rate on a rotating disc. Sensors and Actuators B: Chemical, 2013, 178, 648-655.	7.8	31
120	Electrospinning and characterization of polymerâ€“graphene powder scaffolds. CIRP Annals - Manufacturing Technology, 2017, 66, 233-236.	3.6	31
121	Development and characterization of a miniature PEM fuel cell stack with carbon bipolar plates. Journal of Power Sources, 2008, 176, 207-214.	7.8	30
122	Fabrication and characterization of micro PEM fuel cells using pyrolyzed carbon current collector plates. Journal of Power Sources, 2010, 195, 4796-4803.	7.8	30
123	Electrochemical measurements on metal oxide electrodesâ€”I. Zirconium dioxide. Electrochimica Acta, 1984, 29, 411-417.	5.2	28
124	Bioelectrochemical Study of ThermostablePycnoporus sanguineusCS43 Laccase Bioelectrodes Based on Pyrolytic Carbon Nanofibers for Bioelectrocatalytic O₂Reduction. ACS Catalysis, 2015, 5, 7507-7518.	11.2	28
125	Nitrogen-Rich Polyacrylonitrile-Based Graphitic Carbons for Hydrogen Peroxide Sensing. Sensors, 2017, 17, 2407.	3.8	28
126	Effect of pyrolysis process parameters on electrical, physical, chemical and electro-chemical properties of SU-8-derived carbon structures fabricated using the C-MEMS process. Materials Today: Proceedings, 2018, 5, 9669-9682.	1.8	28

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127	Design and fabrication of an ac-electro-osmosis micropump with 3D high-aspect-ratio electrodes using only SU-8. Journal of Micromechanics and Microengineering, 2011, 21, 035018.	2.6	27
128	Suction-enhanced siphon valves for centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2012, 12, 345-354.	2.2	27
129	Size-dependent electrical and thermal conductivities of electro-mechanically-spun glassy carbon wires. Carbon, 2018, 130, 87-93.	10.3	27
130	Mathematical modeling and computational analysis of centrifugal microfluidic platforms: a review. Lab on A Chip, 2020, 20, 1318-1357.	6.0	27
131	Aging of plasma-activated carbon surfaces: Challenges and opportunities. Applied Surface Science, 2021, 565, 150362.	6.1	27
132	Required technology breakthroughs to assume widely accepted biosensors. Applied Biochemistry and Biotechnology, 1993, 41, 109-128.	2.9	26
133	The Effect of Contact Angles and Capillary Dimensions on the Burst Frequency of Super Hydrophilic and Hydrophilic Centrifugal Microfluidic Platforms, a CFD Study. PLoS ONE, 2013, 8, e73002.	2.5	26
134	Rapid Iodine Sensing on Mechanically Treated Carbon Nanofibers. Sensors, 2018, 18, 1486.	3.8	25
135	Elastic reversible valves on centrifugal microfluidic platforms. Lab on A Chip, 2019, 19, 1090-1100.	6.0	25
136	Capillary filling in centrifugally actuated microfluidic devices with dynamically evolving contact line motion. Journal of Applied Physics, 2009, 105, .	2.5	24
137	Production of carbonized micro-patterns by photolithography and pyrolysis. Precision Engineering, 2019, 55, 137-143.	3.4	24
138	Fabrication of patterned graphitized carbon wires using low voltage near-field electrospinning, pyrolysis, electrodeposition, and chemical vapor deposition. Microsystems and Nanoengineering, 2020, 6, 7.	7.0	24
139	A centrifugal microfluidic platform for point-of-care diagnostic applications. South African Journal of Science, 2014, 110, 1-7.	0.7	23
140	Multifunctional wax valves for liquid handling and incubation on a microfluidic CD. Microfluidics and Nanofluidics, 2015, 18, 1031-1037.	2.2	23
141	Design and implementation of fluidic micro-pulleys for flow control on centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2014, 16, 1117-1129.	2.2	22
142	Carbon-MEMS architectures for 3D microbatteries. , 2004, , .		21
143	Introduction to Microfabrication Techniques. , 2006, 321, 3-16.		21
144	A low-cost, disposable card for rapid polymerase chain reaction. Colloids and Surfaces B: Biointerfaces, 2007, 58, 52-60.	5.0	21

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145	Gating valve on spinning microfluidic platforms: A flow switch/control concept. Sensors and Actuators B: Chemical, 2014, 204, 149-158.	7.8	21
146	Improved conductivity of suspended carbon fibers through integration of C-MEMS and Electro-Mechanical Spinning technologies. Carbon, 2014, 71, 338-342.	10.3	21
147	Photoelectrochemical corrosion as influenced by an oxide layer. The Journal of Physical Chemistry, 1980, 84, 3423-3428.	2.9	20
148	Microelectrochemical sensor for nitrogen oxides. Sensors and Actuators B: Chemical, 1993, 13, 408-411.	7.8	20
149	Modeling fractal electrodes for Li-ion batteries. Electrochimica Acta, 2009, 54, 5928-5936.	5.2	20
150	Ultra-thin carbon nanofibers based on graphitization of near-field electrospun polyacrylonitrile. Nanoscale, 2020, 12, 10521-10531.	5.6	20
151	Droplet and Particle Generation on Centrifugal Microfluidic Platforms: A Review. Micromachines, 2020, 11, 603.	2.9	20
152	Optical waveguides for surface spectroscopy: FePO4thinâ€ƒfilm/K+â€ƒdoped glass composite optical waveguide systems having tapered velocity couplers. Journal of Applied Physics, 1991, 69, 7425-7429.	2.5	19
153	Investigation on the solid electrolyte interface formed on pyrolyzed photoresist carbon anodes for C-MEMS lithium-ion batteries. Diamond and Related Materials, 2006, 15, 1930-1934.	3.9	19
154	Local chemical vapor deposition of carbon nanofibers from photoresist. Carbon, 2006, 44, 3073-3077.	10.3	19
155	Carbon as a MEMS material: micro and nanofabrication of pyrolysed photoresist carbon. International Journal of Manufacturing Technology and Management, 2008, 13, 360.	0.1	19
156	Visualization and measurement of capillary-driven blood flow using spectral domain optical coherence tomography. Microfluidics and Nanofluidics, 2012, 13, 227-237.	2.2	19
157	A micro-dispenser for long-term storage and controlled release of liquids. Nature Communications, 2019, 10, 189.	12.8	19
158	Integration of microcolumns and microfluidic fractionators on multitasking centrifugal microfluidic platforms for the analysis of biomolecules. Analytical and Bioanalytical Chemistry, 2006, 385, 596-605.	3.7	18
159	Fluidic barriers in droplet-based centrifugal microfluidics: Generation of multiple emulsions and microspheres. Sensors and Actuators B: Chemical, 2020, 311, 127833.	7.8	18
160	Comments on Electroreduction of SOCl2. Journal of the Electrochemical Society, 1987, 134, 2794-2798.	2.9	17
161	Direct current-induced breakdown to enhance reproducibility and performance of carbon-based interdigitated electrode arrays for AC electroosmotic micropumps. Sensors and Actuators A: Physical, 2017, 262, 10-17.	4.1	17
162	Ultra-rapid and low-cost fabrication of centrifugal microfluidic platforms with active mechanical valves. RSC Advances, 2017, 7, 55400-55407.	3.6	17

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163	Numerical simulation of coaxial electrohydrodynamic jet and printing nanoscale structures. Microsystem Technologies, 2019, 25, 4651-4661.	2.0	17
164	Microplasma direct writing for site-selective surface functionalization of carbon microelectrodes. Microsystems and Nanoengineering, 2019, 5, 62.	7.0	17
165	Electrochemical measurements on metal oxide electrodesâ€"II. Impedance measurements on Nb-doped single crystal TiO2. Electrochimica Acta, 1984, 29, 419-423.	5.2	16
166	Lowâ€frequency admittance measurements on the HgCdTe/Photox SiO2interface. Journal of Applied Physics, 1986, 59, 1238-1244.	2.5	16
167	Diffusion-Free Mediator Based Miniature Biofuel Cell Anode Fabricated on a Carbon-MEMS Electrode. Langmuir, 2012, 28, 14055-14064.	3.5	16
168	3D Carbon Electrode Based Triboelectric Nanogenerator. Advanced Materials Technologies, 2016, 1, 1600160.	5.8	16
169	Burst valves for commercial microfluidics: a critical analysis. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	16
170	The silicon/silica electrode. Physica Status Solidi A, 1980, 57, 705-712.	1.7	15
171	Anodic Oxidation of pâ€Type Silicon in Methanol as Compared to Glycol. Journal of the Electrochemical Society, 1982, 129, 2749-2752.	2.9	15
172	Nanogap fabrication by Joule heating of electromechanically spun suspended carbon nanofibers. Carbon, 2017, 115, 811-818.	10.3	15
173	Perspectives on C-MEMS and C-NEMS biotech applications. Biosensors and Bioelectronics, 2021, 180, 113119.	10.1	15
174	A Centrifugal Microfluidic Platform â€" A Comparison. , 2000, , 565-570.		15
175	Development of a proof-of-concept microfluidic portable pathogen analysis system for water quality monitoring. Science of the Total Environment, 2022, 813, 152556.	8.0	15
176	Development of integrated protection for a miniaturized drug delivery system. Smart Materials and Structures, 2007, 16, S295-S299.	3.5	14
177	Design and Development of Micro-Power Generating Device for Biomedical Applications of Lab-on-a-Disc. PLoS ONE, 2015, 10, e0136519.	2.5	14
178	Intrant ELISA: A Novel Approach to Fabrication of Electrospun Fiber Mat-Assisted Biosensor Platforms and Their Integration within Standard Analytical Well Plates. Applied Sciences (Switzerland), 2016, 6, 336.	2.5	14
179	Polymethacrylate Coated Electrospun PHB Fibers as a Functionalized Platform for Bio-Diagnostics: Confirmation Analysis on the Presence of Immobilized IgG Antibodies against Dengue Virus. Sensors, 2017, 17, 2292.	3.8	14
180	Rapid sample preparation for detection of antibiotic resistance on a microfluidic disc platform. Lab on A Chip, 2021, 21, 534-545.	6.0	14

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181	Unleashing the potential of cell membrane-based nanoparticles for COVID-19 treatment and vaccination. Expert Opinion on Drug Delivery, 2021, 18, 1395-1414.	5.0	14
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