

Marc J Madou

List of Publications by Year in descending order

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Version: 2024-02-01

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	Development of a proof-of-concept microfluidic portable pathogen analysis system for water quality monitoring. <i>Science of the Total Environment</i> , 2022, 813, 152556.	8.0	15
2	Synthesis, Purification, and Characterization of Carbon Dots from Non-Activated and Activated Pyrolytic Carbon Black. <i>Nanomaterials</i> , 2022, 12, 298.	4.1	49
3	Fabrication of crystalline submicro-to-nano carbon wire for achieving high current density and ultrastable current. <i>Microsystems and Nanoengineering</i> , 2022, 8, 15.	7.0	2
4	Capillary Flow-Driven and Magnetically Actuated Multi-Use Wax Valves for Controlled Sealing and Releasing of Fluids on Centrifugal Microfluidic Platforms. <i>Micromachines</i> , 2022, 13, 303.	2.9	6
5	Conformal CVD of WO ₃ on electrospun carbon nanofiber mats assisted by Joule heating. <i>Carbon</i> , 2022, 195, 27-34.	10.3	3
6	Fabrication of a 3D carbon electrode for potential dielectrophoresis-based hepatic cell patterning application using carbon micro-electrical-mechanical system (CMEMS). <i>Journal of Micromechanics and Microengineering</i> , 2022, 32, 055005.	2.6	2
7	Characterization of Fluidic-Barrier-Based Particle Generation in Centrifugal Microfluidics. <i>Micromachines</i> , 2022, 13, 881.	2.9	4
8	Elastic membrane enabled inward pumping for liquid manipulation on a centrifugal microfluidic platform. <i>Biomicrofluidics</i> , 2022, 16, 034105.	2.4	0
9	Electrified lab on disc systems: A comprehensive review on electrokinetic applications. <i>Biosensors and Bioelectronics</i> , 2022, 214, 114381.	10.1	10
10	Rapid sample preparation for detection of antibiotic resistance on a microfluidic disc platform. <i>Lab on A Chip</i> , 2021, 21, 534-545.	6.0	14
11	Unraveling the electron transfer rates of highly crystalline carbon nanowires with surface oxides. <i>Nanoscale</i> , 2021, 13, 16094-16103.	5.6	2
12	Carbon-Origami: Controlling 3D Shapes and Microstructure. <i>Engineering Proceedings</i> , 2021, 4, 47.	0.4	0
13	Reusable Capillary Flow-Based Wax Switch Valve for Centrifugal Microfluidics. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1611-1611.	0.0	4
14	Perspectives on C-MEMS and C-NEMS biotech applications. <i>Biosensors and Bioelectronics</i> , 2021, 180, 113119.	10.1	15
15	Unleashing the potential of cell membrane-based nanoparticles for COVID-19 treatment and vaccination. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 1395-1414.	5.0	14
16	Rapid Lipid Content Screening in <i>Neochloris oleoabundans</i> Utilizing Carbon-Based Dielectrophoresis. <i>Micromachines</i> , 2021, 12, 1023.	2.9	0
17	Fabrication of Multilayered Composite Nanofibers Using Continuous Chaotic Printing and Electrospinning: Chaotic Electrospinning. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37455-37465.	8.0	8
18	Distinct Roles of Tensile and Compressive Stresses in Graphitizing and Properties of Carbon Nanofibers. <i>Micromachines</i> , 2021, 12, 1096.	2.9	1

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19	Aging of plasma-activated carbon surfaces: Challenges and opportunities. Applied Surface Science, 2021, 565, 150362.	6.1	27
20	Origami MEMS. , 2021, , 197-239.		2
21	Controlled joule-heating of suspended glassy carbon wires for localized chemical vapor deposition. Carbon, 2020, 156, 329-338.	10.3	6
22	A LEGO inspired fiber probe analytical platform for early diagnosis of Dengue fever. Materials Science and Engineering C, 2020, 109, 110629.	7.3	4
23	Nanofibrous Carbon Multifunctional Smart Scaffolds for Simultaneous Cell Differentiation and Dopamine Detection. ACS Biomaterials Science and Engineering, 2020, 6, 225-234.	5.2	12
24	Anisotropic gold nanoparticles: A survey of recent synthetic methodologies. Coordination Chemistry Reviews, 2020, 425, 213489.	18.8	81
25	Carbonâ€Nanogold Hierarchical Micro/Nano Topographies for Cell Guidance. Advanced Materials Interfaces, 2020, 7, 2000913.	3.7	5
26	Characterization of Chemically Activated Pyrolytic Carbon Black Derived from Waste Tires as a Candidate for Nanomaterial Precursor. Nanomaterials, 2020, 10, 2213.	4.1	32
27	Micro/Nano Hierarchical Platforms: Carbonâ€Nanogold Hierarchical Micro/Nano Topographies for Cell Guidance (Adv. Mater. Interfaces 22/2020). Advanced Materials Interfaces, 2020, 7, 2070124.	3.7	1
28	Functional behaviour and microscopic analysis of ammonium sensors subject to fouling in activated sludge processes. Environmental Science: Water Research and Technology, 2020, 6, 2723-2733.	2.4	3
29	Aging effect of plasma-treated carbon surfaces: An overlooked phenomenon. Carbon, 2020, 169, 32-44.	10.3	39
30	Biomaterials: Nanoâ€Spaced Gold on Glassy Carbon Substrate for Controlling Cell Behavior (Adv.) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	3.7	1
31	Nanotechnology for COVID-19: Therapeutics and Vaccine Research. ACS Nano, 2020, 14, 7760-7782.	14.6	289
32	Ultra-thin carbon nanofibers based on graphitization of near-field electrospun polyacrylonitrile. Nanoscale, 2020, 12, 10521-10531.	5.6	20
33	Mathematical modeling and computational analysis of centrifugal microfluidic platforms: a review. Lab on A Chip, 2020, 20, 1318-1357.	6.0	27
34	Droplet and Particle Generation on Centrifugal Microfluidic Platforms: A Review. Micromachines, 2020, 11, 603.	2.9	20
35	Two-photon polymerization as a component of Desktop-Integrated Manufacturing Platforms. , 2020, , 577-623.		2
36	Fluidic barriers in droplet-based centrifugal microfluidics: Generation of multiple emulsions and microspheres. Sensors and Actuators B: Chemical, 2020, 311, 127833.	7.8	18

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37	Sub-10nm nanogap fabrication on suspended glassy carbon nanofibers. <i>Microsystems and Nanoengineering</i> , 2020, 6, 9.	7.0	11
38	Fabrication of patterned graphitized carbon wires using low voltage near-field electrospinning, pyrolysis, electrodeposition, and chemical vapor deposition. <i>Microsystems and Nanoengineering</i> , 2020, 6, 7.	7.0	24
39	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. <i>Biofabrication</i> , 2020, 12, 035023.	7.1	43
40	Nano-spaced Gold on Glassy Carbon Substrate for Controlling Cell Behavior. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000238.	3.7	10
41	Polymethacrylate Sphere-Based Assay for Ultrasensitive miRNA Detection. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-14.	1.7	7
42	Capillary folding of patterned polymer polyhedra. <i>International Journal of Nanotechnology</i> , 2020, 17, 487.	0.2	0
43	Comparison of Two-Dimensional and Three-Dimensional Carbon Electrode Geometries Affecting Bidirectional Electroosmotic Pumping. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.7	4
44	Determination of Mercury(II) on A Centrifugal Microfluidic Device Using Ionic Liquid Dispersive Liquid-Liquid Microextraction. <i>Micromachines</i> , 2019, 10, 523.	2.9	10
45	Instrument for fine control of drop-on-demand electrohydrodynamic jet printing by current measurement. <i>Review of Scientific Instruments</i> , 2019, 90, 115001.	1.3	8
46	Pyrolysis-induced shrinking of three-dimensional structures fabricated by two-photon polymerization: experiment and theoretical model. <i>Microsystems and Nanoengineering</i> , 2019, 5, 38.	7.0	37
47	3D Printing of Elastic Membranes for Fluidic Pumping and Demonstration of Reciprocation Inserts on the Microfluidic Disc. <i>Micromachines</i> , 2019, 10, 549.	2.9	2
48	Burst valves for commercial microfluidics: a critical analysis. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	16
49	Numerical simulation of coaxial electrohydrodynamic jet and printing nanoscale structures. <i>Microsystem Technologies</i> , 2019, 25, 4651-4661.	2.0	17
50	Hydrodynamic channeling as a controlled flow reversal mechanism for bidirectional AC electroosmotic pumping using glassy carbon microelectrode arrays. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 075007.	2.6	10
51	Elastic reversible valves on centrifugal microfluidic platforms. <i>Lab on A Chip</i> , 2019, 19, 1090-1100.	6.0	25
52	Study of the electrostatic jet initiation in near-field electrospinning. <i>Journal of Colloid and Interface Science</i> , 2019, 543, 106-113.	9.4	11
53	Microplasma direct writing for site-selective surface functionalization of carbon microelectrodes. <i>Microsystems and Nanoengineering</i> , 2019, 5, 62.	7.0	17
54	Fabrication of polymer and carbon polyhedra through controlled cross-linking and capillary deformations. <i>Soft Matter</i> , 2019, 15, 9171-9177.	2.7	7

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55	Production of carbonized micro-patterns by photolithography and pyrolysis. <i>Precision Engineering</i> , 2019, 55, 137-143.	3.4	24
56	A micro-dispenser for long-term storage and controlled release of liquids. <i>Nature Communications</i> , 2019, 10, 189.	12.8	19
57	Wireless Electrochemical Detection on a Microfluidic Compact Disc (CD) and Evaluation of Redox-Amplification during Flow. <i>Micromachines</i> , 2019, 10, 31.	2.9	12
58	Methodology and fabrication of adherent and crack-free SU-8 photoresist-derived carbon MEMS on fused silica transparent substrates. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 027002.	2.6	11
59	Reviewâ€”Covalent Functionalization of Carbon Nanomaterials for Biosensor Applications: An Update. <i>Journal of the Electrochemical Society</i> , 2018, 165, B103-B117.	2.9	40
60	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. <i>Materials Today: Proceedings</i> , 2018, 5, 9669-9682.	1.8	28
61	All-carbon suspended nanowire sensors as a rapid highly-sensitive label-free chemiresistive biosensing platform. <i>Biosensors and Bioelectronics</i> , 2018, 107, 145-152.	10.1	82
62	Size-dependent electrical and thermal conductivities of electro-mechanically-spun glassy carbon wires. <i>Carbon</i> , 2018, 130, 87-93.	10.3	27
63	Recent Trends in the Processing and Applications of Carbon Nanotubes and C-MEMS-Based Carbon Nanowires. <i>Advanced Structured Materials</i> , 2018, , 97-141.	0.5	2
64	A microdevice for rapid, monoplex and colorimetric detection of foodborne pathogens using a centrifugal microfluidic platform. <i>Biosensors and Bioelectronics</i> , 2018, 100, 96-104.	10.1	131
65	Stress-activated pyrolytic carbon nanofibers for electrochemical platforms. <i>Electrochimica Acta</i> , 2018, 290, 639-648.	5.2	11
66	Recent advances in the development of micropumps, microvalves and micromixers and the integration of carbon electrodes on centrifugal microfluidic platforms. <i>International Journal of Nanotechnology</i> , 2018, 15, 53.	0.2	11
67	Temperature-Dependent Electrical and Thermal Conductivity of Glassy Carbon Wires. , 2018, , .		5
68	A Microfluidic Lab-on-a-Disc (LOD) for Antioxidant Activities of Plant Extracts. <i>Micromachines</i> , 2018, 9, 140.	2.9	8
69	Rapid Iodine Sensing on Mechanically Treated Carbon Nanofibers. <i>Sensors</i> , 2018, 18, 1486.	3.8	25
70	Aluminium valving and magneto-balloon mixing for rapid prediction of septic shock on centrifugal microfluidic platforms. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 429-436.	7.8	13
71	An Effect of Magnetic Beads to <i>Boesenbergia rotunda</i> Antioxidant Activity Using Photoprotective Microfluidic CD. <i>IFMBE Proceedings</i> , 2018, , 139-144.	0.3	0
72	Nanogap fabrication by Joule heating of electromechanically spun suspended carbon nanofibers. <i>Carbon</i> , 2017, 115, 811-818.	10.3	15

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73	Electrospinning and characterization of polymer-graphene powder scaffolds. CIRP Annals - Manufacturing Technology, 2017, 66, 233-236.	3.6	31
74	Carbon TEM grids fabricated using C-MEMS as the platform for suspended carbon nanowire characterization. Carbon, 2017, 113, 252-259.	10.3	9
75	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
76	Particle/cell separation on microfluidic platforms based on centrifugation effect: a review. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	89
77	Fabrication of 3D Carbon Microelectromechanical Systems (C-MEMS). Journal of Visualized Experiments, 2017, , .	0.3	5
78	Ultra-rapid and low-cost fabrication of centrifugal microfluidic platforms with active mechanical valves. RSC Advances, 2017, 7, 55400-55407.	3.6	17
79	Graphitizing Non-graphitizable Carbons by Stress-induced Routes. Scientific Reports, 2017, 7, 16551.	3.3	43
80	SU-8 derived novel ultra compact carbon antenna using C-MEMS technology. , 2017, , .		1
81	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
82	Nitrogen-Rich Polyacrylonitrile-Based Graphitic Carbons for Hydrogen Peroxide Sensing. Sensors, 2017, 17, 2407.	3.8	28
83	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
84	CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. Micromachines, 2016, 7, 22.	2.9	88
85	3D Carbon Electrode Based Triboelectric Nanogenerator. Advanced Materials Technologies, 2016, 1, 1600160.	5.8	16
86	Fabrication and characterization of polycaprolactone-graphene powder electrospun nanofibers. , 2016, , .		6
87	Manufacturing carbon nanofiber electrodes with embedded metallic nanoparticles using block copolymers templates. , 2016, , .		0
88	Fabrication of Biocompatible Hollow Microneedles Using the C-MEMS Process for Transdermal Drug Delivery. ECS Transactions, 2016, 72, 45-50.	0.5	8
89	Human hair-derived hollow carbon microfibers for electrochemical sensing. Carbon, 2016, 107, 872-877.	10.3	40
90	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

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91	The use of polybutene for controlling the flow of liquids in centrifugal microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	8
92	Two-Photon Polymerization as a Component of Desktop Integrated Manufacturing Platforms. , 2016, , 374-416.		4
93	Lab-on-a-CD: A Fully Integrated Molecular Diagnostic System. <i>Journal of the Association for Laboratory Automation</i> , 2016, 21, 323-355.	2.8	79
94	Microsphere integrated microfluidic disk: synergy of two techniques for rapid and ultrasensitive dengue detection. <i>Scientific Reports</i> , 2015, 5, 16485.	3.3	33
95	Sequential Push-Pull Pumping Mechanism for Washing and Evacuation of an Immunoassay Reaction Chamber on a Microfluidic CD Platform. <i>PLoS ONE</i> , 2015, 10, e0121836.	2.5	7
96	Design and Development of Micro-Power Generating Device for Biomedical Applications of Lab-on-a-Disc. <i>PLoS ONE</i> , 2015, 10, e0136519.	2.5	14
97	Liquid density effect on burst frequency in centrifugal microfluidic platforms. , 2015, 2015, 3221-4.		0
98	The Detachment Process and Release Efficiency of Polypyrrole/Gold Bilayer Actuators. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1616-1621.	2.5	3
99	Development of novel passive check valves for the microfluidic CD platform. <i>Sensors and Actuators A: Physical</i> , 2015, 222, 245-254.	4.1	37
100	Guided routing on spinning microfluidic platforms. <i>RSC Advances</i> , 2015, 5, 8669-8679.	3.6	10
101	Biosensing enhancement of dengue virus using microballoon mixers on centrifugal microfluidic platforms. <i>Biosensors and Bioelectronics</i> , 2015, 67, 424-430.	10.1	38
102	From cellular lysis to microarray detection, an integrated thermoplastic elastomer (TPE) point of care Lab on a Disc. <i>Lab on A Chip</i> , 2015, 15, 406-416.	6.0	69
103	Development of a Passive Liquid Valve (PLV) Utilizing a Pressure Equilibrium Phenomenon on the Centrifugal Microfluidic Platform. <i>Sensors</i> , 2015, 15, 4658-4676.	3.8	13
104	Reversible thermo-pneumatic valves on centrifugal microfluidic platforms. <i>Lab on A Chip</i> , 2015, 15, 3358-3369.	6.0	32
105	A Novel Magnetic Active Valve for Lab-on-CD Technology. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1322-1330.	2.5	11
106	Bioelectrochemical Study of Thermostable <i>Pycnoporus sanguineus</i> /CS43 Laccase Bioelectrodes Based on Pyrolytic Carbon Nanofibers for Bioelectrocatalytic O ₂ Reduction. <i>ACS Catalysis</i> , 2015, 5, 7507-7518.	11.2	28
107	Speciation of Trace Levels of Chromium with Bismuth Modified Pyrolyzed Photoresist Carbon Electrodes. <i>Electroanalysis</i> , 2015, 27, 128-134.	2.9	9
108	Multifunctional wax valves for liquid handling and incubation on a microfluidic CD. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1031-1037.	2.2	23

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109	RAPID, LOW-COST PROTOTYPING OF CENTRIFUGAL MICROFLUIDIC DEVICES FOR EFFECTIVE IMPLEMENTATION OF VARIOUS MICROFLUIDIC COMPONENTS. South African Journal of Industrial Engineering, 2015, 26, 179.	0.2	1
110	Biomimetic <i>Pieris rapae</i> 's Nanostructure and Its Use as a Simple Sucrose Sensor. Micromachines, 2014, 5, 216-227.	2.9	2
111	A centrifugal microfluidic platform for point-of-care diagnostic applications. South African Journal of Science, 2014, 110, 1-7.	0.7	23
112	Pyrolysed 3D Carbon Scaffolds Induce Spontaneous Differentiation of Human Neural Stem Cells and Facilitate Real-Time Dopamine Detection. Advanced Functional Materials, 2014, 24, 7042-7052.	14.9	62
113	Design and implementation of fluidic micro-pulleys for flow control on centrifugal microfluidic platforms. Microfluidics and Nanofluidics, 2014, 16, 1117-1129.	2.2	22
114	Latex micro-balloon pumping in centrifugal microfluidic platforms. Lab on A Chip, 2014, 14, 988.	6.0	58
115	Pyrolyzed Photoresist Carbon Electrodes in Aprotic Solvent: Bilirubin Electrochemistry and Interaction with Electrogenerated Superoxide. Electrochimica Acta, 2014, 147, 401-407.	5.2	10
116	Gating valve on spinning microfluidic platforms: A flow switch/control concept. Sensors and Actuators B: Chemical, 2014, 204, 149-158.	7.8	21
117	Three-Dimensional Carbon Interdigitated Electrode Arrays for Redox-Amplification. Analytical Chemistry, 2014, 86, 2963-2971.	6.5	52
118	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
119	Improved conductivity of suspended carbon fibers through integration of C-MEMS and Electro-Mechanical Spinning technologies. Carbon, 2014, 71, 338-342.	10.3	21
120	3-D Micro and Nano Technologies for Improvements in Electrochemical Power Devices. Micromachines, 2014, 5, 171-203.	2.9	39
121	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
122	Present Technology and Future Trends in Point-of-Care Microfluidic Diagnostics. Methods in Molecular Biology, 2013, 949, 3-23.	0.9	33
123	Flow-enhanced electrochemical immunosensors on centrifugal microfluidic platforms. Lab on A Chip, 2013, 13, 3747.	6.0	69
124	Electrochemical velocimetry on centrifugal microfluidic platforms. Lab on A Chip, 2013, 13, 3253.	6.0	33
125	Monolithic carbon structures including suspended single nanowires and nanomeshes as a sensor platform. Nanoscale Research Letters, 2013, 8, 492.	5.7	50
126	Push pull microfluidics on a multi-level 3D CD. Lab on A Chip, 2013, 13, 3199.	6.0	34

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127	PPyDEP: a new approach to microparticle manipulation employing polymer-based electrodes. Lab on A Chip, 2013, 13, 4642.	6.0	10
128	Electro-Mechanical Spinning: A new manufacturing technique for micro/nano-fabrication of carbon fibers. , 2013, , .		2
129	Serum complement enhances the responses of genotoxin- and oxidative stress-sensitive Escherichia coli bioreporters. Biosensors and Bioelectronics, 2013, 46, 175-182.	10.1	12
130	Optimization of Carbon Electrodes Derived from Epoxy-based Photoresist. Journal of the Electrochemical Society, 2013, 160, B132-B137.	2.9	49
131	Geometry effects on blood separation rate on a rotating disc. Sensors and Actuators B: Chemical, 2013, 178, 648-655.	7.8	31
132	Experimental validation of numerical study on thermoelectric-based heating in an integrated centrifugal microfluidic platform for polymerase chain reaction amplification. Biomicrofluidics, 2013, 7, 14106.	2.4	12
133	Novel liquid equilibrium valving on centrifugal microfluidic CD platform. , 2013, 2013, 5509-12.		1
134	Multi-level 3D implementation of thermo-pneumatic pumping on centrifugal microfluidic CD platforms. , 2013, 2013, 5513-6.		1
135	Fabrication of 3D polypyrrole microstructures and their utilization as electrodes in supercapacitors. Journal of Micromechanics and Microengineering, 2013, 23, 125029.	2.6	3
136	Implications: Human Cognition and Communication and the Emergence of the Cognitive Society. Science Policy Reports, 2013, , 223-253.	0.1	2
137	Vacuum/Compression Valving (VCV) Using Paraffin-Wax on a Centrifugal Microfluidic CD Platform. PLoS ONE, 2013, 8, e58523.	2.5	54
138	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
139	Implications: Societal Collective Outcomes, Including Manufacturing. Science Policy Reports, 2013, , 255-285.	0.1	0
140	Micro and nano patterning of carbon electrodes for bioMEMS. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 252-265.	0.9	38
141	Visualization and measurement of capillary-driven blood flow using spectral domain optical coherence tomography. Microfluidics and Nanofluidics, 2012, 13, 227-237.	2.2	19
142	The effects of placement and geometry on thermo-pneumatic pumping on centrifugal microfluidic compact disc (CD) platforms. , 2012, , .		0
143	Diffusion-Free Mediator Based Miniature Biofuel Cell Anode Fabricated on a Carbon-MEMS Electrode. Langmuir, 2012, 28, 14055-14064.	3.5	16
144	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

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145	A Computer-Controlled Near-Field Electrospinning Setup and Its Graphic User Interface for Precision Patterning of Functional Nanofibers on 2D and 3D Substrates. <i>Journal of the Association for Laboratory Automation</i> , 2012, 17, 302-308.	2.8	13
146	Scalable suspended carbon nanowire meshes as ultrasensitive electrochemical sensing platforms. , 2012, , .		1
147	A new approach to gas sensing with nanotechnology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2448-2473.	3.4	133
148	Electrical conductivity of polymer blends of poly(3,4-ethylenedioxythiophene): Poly(styrenesulfonate): N-methyl-2-pyrrolidinone and polyvinyl alcohol. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3134-3141.	2.6	51
149	Improved graphitization and electrical conductivity of suspended carbon nanofibers derived from carbon nanotube/polyacrylonitrile composites by directed electrospinning. <i>Carbon</i> , 2012, 50, 1753-1761.	10.3	159
150	Centrifugal microfluidic platform for rapid PCR amplification using integrated thermoelectric heating and ice-valving. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 1191-1197.	7.8	102
151	Suction-enhanced siphon valves for centrifugal microfluidic platforms. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 345-354.	2.2	27
152	Infrared controlled waxes for liquid handling and storage on a CD-microfluidic platform. <i>Lab on A Chip</i> , 2011, 11, 723-726.	6.0	94
153	An application specific multi-channel stimulator for electrokinetically-driven microfluidic devices. , 2011, , .		4
154	Anomalous mixing behaviour in rotationally actuated microfluidic devices. <i>Lab on A Chip</i> , 2011, 11, 2823.	6.0	44
155	Controlled Continuous Patterning of Polymeric Nanofibers on Three-Dimensional Substrates Using Low-Voltage Near-Field Electrospinning. <i>Nano Letters</i> , 2011, 11, 1831-1837.	9.1	209
156	Carbon Interdigitated Array Nanoelectrodes for Electrochemical Applications. <i>Journal of the Electrochemical Society</i> , 2011, 158, J76.	2.9	70
157	Design and fabrication of an ac-electro-osmosis micropump with 3D high-aspect-ratio electrodes using only SU-8. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 035018.	2.6	27
158	Mechanical characterizations of cast Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/Polyvinyl Alcohol thin films. <i>Synthetic Metals</i> , 2011, 161, 2259-2267.	3.9	78
159	Micromixing and flow manipulation with polymer microactuators. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 405-416.	2.2	5
160	Thermo-pneumatic pumping in centrifugal microfluidic platforms. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 643-652.	2.2	77
161	A novel approach to dielectrophoresis using carbon electrodes. <i>Electrophoresis</i> , 2011, 32, 2385-2392.	2.4	97
162	Fabrication and electrical conductivity of suspended carbon nanofiber arrays. <i>Carbon</i> , 2011, 49, 1727-1732.	10.3	66

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163	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
164	A multiplexed immunoassay system based upon reciprocating centrifugal microfluidics. Review of Scientific Instruments, 2011, 82, 064303.	1.3	67
165	Electrolysis-Induced Pneumatic Pressure for Control of Liquids in a Centrifugal System. Journal of the Electrochemical Society, 2011, 158, P130.	2.9	33
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