

Rodrigo Martinez-Duarte

List of Publications by Year in descending order

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67
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citations

394421

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35
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67
all docs

67
docs citations

67
times ranked

1431
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the mechanical stiffness of lightweight carbon origami. <i>Materials Today: Proceedings</i> , 2022, 48, 16-20.	1.8	2
2	Electrically driven microfluidic platforms for exosome manipulation and characterization. <i>Electrophoresis</i> , 2022, 43, 327-339.	2.4	16
3	Editorial for the Special Issue on Micromachines for Dielectrophoresis. <i>Micromachines</i> , 2022, 13, 417.	2.9	0
4	Comparing Carbon Origami from Polyaramid and Cellulose Sheets. <i>Micromachines</i> , 2022, 13, 503.	2.9	4
5	A critical review on the fabrication techniques that can enable higher throughput in dielectrophoresis devices. <i>Electrophoresis</i> , 2021, , .	2.4	8
6	Comparing the performance of different extruders in the Robocasting of biopolymer-nanoparticle composites towards the fabrication of complex geometries of porous Tungsten Carbide. <i>Procedia Manufacturing</i> , 2021, 53, 338-342.	1.9	6
7	Highly Localized Enrichment of <i>Trypanosoma brucei</i> Parasites Using Dielectrophoresis. <i>Micromachines</i> , 2020, 11, 625.	2.9	6
8	Single Cell Level Dielectrophoretic Responses & Dielectrophoretic Deformations of Monocytes to Quantify Population Heterogeneity. , 2020, 2020, 2221-2226.		0
9	Characterization of the Dielectrophoretic Response of Different <i>Candida</i> Strains Using 3D Carbon Microelectrodes. <i>Micromachines</i> , 2020, 11, 255.	2.9	18
10	The impact of using different renewable films in the synthesis and microstructure of carbonaceous materials applicable in origami-inspired manufacturing. <i>Materialia</i> , 2020, 11, 100734.	2.7	6
11	Automated pick and transfer of targeted cells using dielectrophoresis. <i>Lab on A Chip</i> , 2019, 19, 2512-2525.	6.0	15
12	Architected Tungsten Carbide Electrodes Using Origami Techniques. <i>Advanced Engineering Materials</i> , 2019, 21, 1900290.	3.5	14
13	Mechanical Properties and Process Improvement of Tungsten Carbide Additively Manufactured with Renewable Biopolymers. <i>Procedia Manufacturing</i> , 2019, 34, 704-711.	1.9	6
14	Nondimensional Streaming Dielectrophoresis Number for a System of Continuous Particle Separation. <i>Analytical Chemistry</i> , 2019, 91, 4357-4367.	6.5	9
15	Dielectrophoretic characterization and separation of monocytes and macrophages using 3D carbon electrodes. <i>Electrophoresis</i> , 2019, 40, 315-321.	2.4	22
16	Carbon-Electrode Dielectrophoresis to Identify <i>Candida</i> strains. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
17	Shrinkage of SU-8 microstructures during carbonization. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 131, 17-27.	5.5	49
18	Carbon origami: A method to fabricate lightweight carbon cellular materials. <i>Carbon</i> , 2018, 133, 140-149.	10.3	25

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19	Quantitative Investigation for the Dielectrophoretic Effect of Fluorescent Dyes at Single-Cell Resolution. ACS Omega, 2018, 3, 7243-7246.	3.5	4
20	3D Printing of Carbides Using Renewable Resources. ECS Transactions, 2018, 85, 37-44.	0.5	0
21	Fabrication of Lightweight 3D Complex Shapes of Cellular Carbonaceous Materials Using Origami. ECS Transactions, 2018, 85, 29-36.	0.5	1
22	A Novel Approach for the Sustainable Synthesis of Carbon Fibers Using Light Induced Dielectrophoresis of Bacteria. ECS Meeting Abstracts, 2018, , .	0.0	0
23	Micro-Molded Glassy Carbon Electrodes for High Throughput Dielectrophoresis. ECS Meeting Abstracts, 2018, , .	0.0	0
24	Carbon-Electrode Dielectrophoresis to Concentrate Trypanosoma Brucei. ECS Meeting Abstracts, 2018, , .	0.0	0
25	A sustainable approach for tungsten carbide synthesis using renewable biopolymers. Ceramics International, 2017, 43, 10546-10553.	4.8	22
26	Assessing the importance of the root mean square (RMS) value of different waveforms to determine the strength of a dielectrophoresis trapping force. Electrophoresis, 2017, 38, 2561-2564.	2.4	14
27	Fabrication challenges and perspectives on the use of carbonâ€electrode dielectrophoresis in sample preparation. IET Nanobiotechnology, 2017, 11, 127-133.	3.8	5
28	Dielectrophoretic Separation of Live and Dead Monocytes Using 3D Carbon-Electrodes. Sensors, 2017, 17, 2691.	3.8	53
29	Studying the Behavior of T. Brucei Under Electric Field Gradients Implemented Using Optoelectronic Tweezers. ECS Meeting Abstracts, 2017, , .	0.0	0
30	Fabrication of 3D Shapes of Carbon By Origami. ECS Meeting Abstracts, 2017, , .	0.0	0
31	Carbon-Electrode Dielectrophoresis for Concentrating Trypanosoma Brucei. ECS Meeting Abstracts, 2017, MA2017-01, 2005-2005.	0.0	1
32	Studying the Attraction of T. Brucei to Different Materials and Landscapes. ECS Meeting Abstracts, 2017, , .	0.0	0
33	A Novel Approach to the Sustainable Synthesis of Carbon Fibers. ECS Meeting Abstracts, 2017, , .	0.0	0
34	Numerical Model of Streaming DEP for Stem Cell Sorting. Micromachines, 2016, 7, 217.	2.9	14
35	Challenges in the Use of Compact Disc-Based Centrifugal Microfluidics for Healthcare Diagnostics at the Extreme Point of Care. Micromachines, 2016, 7, 52.	2.9	29
36	Enrichment of diluted cell populations from large sample volumes using 3D carbon-electrode dielectrophoresis. Biomicrofluidics, 2016, 10, 033107.	2.4	27

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37	Analytical methodologies using carbon substrates developed by pyrolysis. Analytical Methods, 2016, 8, 4163-4176.	2.7	16
38	Synthesis of Titanium Oxycarbide through Carbothermal Reduction of Titanium Dioxide Nanoparticles and Renewable Biopolymers. ECS Transactions, 2016, 72, 17-23.	0.5	1
39	3D Carbon-Electrode Dielectrophoresis for Enrichment of a Small Cell Population from a Large Sample Volume. ECS Transactions, 2016, 72, 97-103.	0.5	0
40	Shrinkage Analysis of Carbon Micro Structures Derived from SU-8 Photoresist. ECS Transactions, 2016, 72, 27-33.	0.5	13
41	Carbon MEMS. , 2016, , 455-461.		2
42	Shrinkage Analysis of Carbon Micro Structures Derived from SU-8 Photoresist. ECS Meeting Abstracts, 2016, , .	0.0	0
43	3D Carbon-Electrode Dielectrophoresis for Enrichment of a Small Cell Population from a Large Sample Volume. ECS Meeting Abstracts, 2016, , .	0.0	0
44	Synthesis of Titanium Oxycarbide through Carbothermal Reduction of Titanium Dioxide Nanoparticles and Renewable Biopolymers. ECS Meeting Abstracts, 2016, , .	0.0	0
45	Assessing the Advantages of Using Square Wave Signals for Particle Trapping in Carbon-Electrode Dielectrophoresis. ECS Meeting Abstracts, 2016, , .	0.0	0
46	Fabricating Suspended Carbon Wires Using SU-8 Photolithography. ECS Meeting Abstracts, 2016, , .	0.0	0
47	Additive Manufacturing of Carbides Using Renewable Resources. , 2015, , .		2
48	Carbon Cone Electrodes for Selection, Manipulation and Lysis of Single Cells. , 2015, , .		0
49	A study on the limits and advantages of using a desktop cutter plotter to fabricate microfluidic networks. Microfluidics and Nanofluidics, 2015, 19, 973-985.	2.2	60
50	Carbon MEMS. , 2015, , 1-8.		0
51	Biomimetic <i>Pieris rapae</i> ™s Nanostructure and Its Use as a Simple Sucrose Sensor. Micromachines, 2014, 5, 216-227.	2.9	2
52	SU-8 Photolithography as a Toolbox for Carbon MEMS. Micromachines, 2014, 5, 766-782.	2.9	61
53	Dielectrophoresis-based purification of antibiotic-treated bacterial subpopulations. Lab on A Chip, 2014, 14, 1850-1857.	6.0	61
54	Dielectrophoresis of lambdaâ€DNA using 3D carbon electrodes. Electrophoresis, 2013, 34, 1113-1122.	2.4	62

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55	Increasing PCR sensitivity by removal of polymerase inhibitors in environmental samples by using dielectrophoresis. <i>Biosensors and Bioelectronics</i> , 2013, 43, 297-303.	10.1	21
56	Visualization and measurement of capillary-driven blood flow using spectral domain optical coherence tomography. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 227-237.	2.2	19
57	Microfabrication technologies in dielectrophoresis applications—A review. <i>Electrophoresis</i> , 2012, 33, 3110-3132.	2.4	157
58	Very High Throughput Electrical Cell Lysis and Extraction of Intracellular Compounds Using 3D Carbon Electrodes in Lab-on-a-Chip Devices. <i>Micromachines</i> , 2012, 3, 574-581.	2.9	33
59	An application specific multi-channel stimulator for electrokinetically-driven microfluidic devices. , 2011, , .		4
60	A novel approach to dielectrophoresis using carbon electrodes. <i>Electrophoresis</i> , 2011, 32, 2385-2392.	2.4	97
61	One-step maskless grayscale lithography for the fabrication of 3-dimensional structures in SU-8. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 125-134.	7.8	103
62	On-line separation of bacterial cells by carbon-electrode dielectrophoresis. <i>Electrophoresis</i> , 2010, 31, 2921-2928.	2.4	60
63	Perspectives of Micro and Nanofabrication of Carbon for Electrochemical and Microfluidic Applications. , 2010, , 181-263.		9
64	The integration of 3D carbon-electrode dielectrophoresis on a CD-like centrifugal microfluidic platform. <i>Lab on A Chip</i> , 2010, 10, 1030.	6.0	129
65	The integration of 3D carbon Dielectrophoresis on a rotating platform. , 2009, , .		1
66	A novel method for amorphous metal micromolding using Carbon MEMS. , 2009, , .		2
67	The Impact of Using Different Renewable Films in the Synthesis and Microstructure of Carbonaceous Materials Applicable in Origami-Inspired Manufacturing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0