

Pouya Rezai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 papers	758 citations	15 h-index	24 g-index
79 ext. papers	937 ext. citations	4.2 avg, IF	4.81 L-index

#	Paper	IF	Citations
70	Dopaminergic signaling regulates zebrafish larvae's response to electricity.. <i>Biotechnology Journal</i> , 2022 , e2100561	5.6	
69	Low-Cost Resistive Microfluidic Salinity Sensor for High-Precision Detection of Drinking Water Salt Levels.. <i>ACS Omega</i> , 2022 , 7, 15529-15539	3.9	0
68	Molecularly imprinted polymer (MIP) based core-shell microspheres for bacteria isolation. <i>Polymer</i> , 2022 , 251, 124917	3.9	0
67	Nanopore sensors for viral particle quantification: current progress and future prospects. <i>Bioengineered</i> , 2021 , 12, 9189-9215	5.7	0
66	High-speed label-free confocal microscopy of with near infrared spectrally encoded confocal microscopy. <i>Biomedical Optics Express</i> , 2021 , 12, 3607-3618	3.5	0
65	Open access tool and microfluidic devices for phenotypic quantification of heart function of intact fruit fly and zebrafish larvae. <i>Computers in Biology and Medicine</i> , 2021 , 132, 104314	7	3
64	Integration of microfluidic sample preparation with PCR detection to investigate the effects of simultaneous DNA-Inhibitor separation and DNA solution exchange. <i>Analytica Chimica Acta</i> , 2021 , 1160, 338449	6.6	0
63	Highly conductive multi-walled carbon nanotube/polydimethylsiloxane (MWCNT/PDMS) nanocomposite for microfluidic applications. <i>Journal of Composite Materials</i> , 2021 , 55, 1799-1810	2.7	2
62	Materials and methods for microfabrication of microfluidic devices 2021 , 1-78		2
61	Microfluidic electric parallel egg-laying assay and application to in-vivo toxicity screening of microplastics using <i>C. elegans</i> . <i>Science of the Total Environment</i> , 2021 , 783, 147055	10.2	2
60	Silver nanowire-embedded PDMS with high electrical conductivity: nanowires synthesis, composite processing and electrical analysis. <i>Materials Today Chemistry</i> , 2021 , 21, 100496	6.2	5
59	Microfluidic Fredkin gate: A novel control unit for integrated microfluidic systems. <i>Microelectronic Engineering</i> , 2021 , 249, 111612	2.5	0
58	Designing microfluidic devices for behavioral screening of multiple zebrafish larvae. <i>Biotechnology Journal</i> , 2021 , e2100076	5.6	2
57	Elasto-inertial microparticle focusing in straight microchannels: A numerical parametric investigation. <i>Physics of Fluids</i> , 2021 , 33, 092002	4.4	1
56	Conventional and microfluidic methods for airborne virus isolation and detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 206, 111962	6	1
55	Zebrafish larva response and habituation to electric signal: Effects of voltage, current and pulsation studied in a microfluidic device. <i>Sensors and Actuators A: Physical</i> , 2021 , 332, 113070	3.9	3
54	Electric egg-laying: a new approach for regulating egg-laying behaviour in a microchannel using electric field. <i>Lab on A Chip</i> , 2021 , 21, 821-834	7.2	3

53	Microfluidic devices to study the effect of electric fields on <i>C. elegans</i> and <i>Danio rerio</i> 2021 , 341-361		
52	Semi-mobile <i>C. elegans</i> electrotaxis assay for movement screening and neural monitoring of Parkinson's disease models. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128064	8.5	4
51	Triplex Inertia-Magneto-Elastic (TIME) sorting of microparticles in non-Newtonian fluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 503, 166620	2.8	1
50	Parametric study of droplet size in an axisymmetric flow-focusing capillary device. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 1016-1022	3.2	4
49	Localized microinjection of intact <i>Drosophila melanogaster</i> larva to investigate the effect of serotonin on heart rate. <i>Lab on A Chip</i> , 2020 , 20, 343-355	7.2	9
48	Parallel-Channel Electrotaxis and Neuron Screening of. <i>Micromachines</i> , 2020 , 11,	3.3	4
47	Dean flow velocity of viscoelastic fluids in curved microchannels. <i>AIP Advances</i> , 2020 , 10, 085015	1.5	4
46	Multi-phenotypic and bi-directional behavioral screening of zebrafish larvae. <i>Integrative Biology (United Kingdom)</i> , 2020 , 12, 211-220	3.7	5
45	Poly(dimethylsiloxane)/Cu/Ag nanocomposites: Electrical, thermal, and mechanical properties. <i>Polymer Composites</i> , 2019 , 40, 4093-4101	3	6
44	Microfluidic devices for embryonic and larval zebrafish studies. <i>Briefings in Functional Genomics</i> , 2019 , 18, 419-432	4.9	22
43	Effect of device geometry on droplet size in co-axial flow-focusing microfluidic droplet generation devices. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 570, 510-517	5.1	22
42	Studying Parkinson's disease using <i>Caenorhabditis elegans</i> models in microfluidic devices. <i>Integrative Biology (United Kingdom)</i> , 2019 , 11, 186-207	3.7	17
41	Fly-on-a-Chip: Microfluidics for <i>Drosophila melanogaster</i> Studies. <i>Integrative Biology (United Kingdom)</i> , 2019 , 11, 425-443	3.7	8
40	Inertia-magnetic particle sorting in microfluidic devices: a numerical parametric investigation. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	2
39	Phenotypic chemical and mutant screening of zebrafish larvae using an on-demand response to electric stimulation. <i>Integrative Biology (United Kingdom)</i> , 2019 , 11, 373-383	3.7	13
38	A microfluidic device to study electrotaxis and dopaminergic system of zebrafish larvae. <i>Biomicrofluidics</i> , 2018 , 12, 014113	3.2	13
37	Miniaturized Sensors and Actuators for Biological Studies on Small Model Organisms of Disease. <i>Energy, Environment, and Sustainability</i> , 2018 , 199-225	0.8	3
36	Fabrication and thermoresistive behavior characterization of three-dimensional silver-polydimethylsiloxane (Ag-PDMS) microbridges in a mini-channel. <i>Sensors and Actuators A: Physical</i> , 2018 , 277, 43-51	3.9	6

35	High-sensitivity interpretation of lateral flow immunoassays using thermophotonic lock-in imaging. <i>Sensors and Actuators A: Physical</i> , 2018 , 273, 189-196	3.9	12
34	3D Integrated Circuit Cooling with Microfluidics. <i>Micromachines</i> , 2018 , 9,	3.3	25
33	Oscillating dispersed-phase co-flow microfluidic droplet generation: Multi-droplet size effect. <i>Biomicrofluidics</i> , 2018 , 12, 034113	3.2	12
32	Oscillating dispersed-phase co-flow microfluidic droplet generation: jet length reduction effect. <i>Soft Matter</i> , 2018 , 14, 9870-9876	3.6	3
31	The simple two-step polydimethylsiloxane transferring process for high aspect ratio microstructures. <i>Journal of Semiconductors</i> , 2018 , 39, 086001	2.3	3
30	Microfluidic curved-channel centrifuge for solution exchange of target microparticles and their simultaneous separation from bacteria. <i>Soft Matter</i> , 2018 , 14, 5356-5363	3.6	11
29	A review of materials selection for optimized efficiency in quantum dot sensitized solar cells: A simplified approach to reviewing literature data. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 408-422	16.2	22
28	Multiplex Inertio-Magnetic Fractionation (MIMF) of magnetic and non-magnetic microparticles in a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	8
27	Using Robotics and 3D Printing to Introduce Youth to Computer Science and Electromechanical Engineering 2017 ,		4
26	Magneto-Hydrodynamic Fractionation (MHF) for continuous and sheathless sorting of high-concentration paramagnetic microparticles. <i>Biomedical Microdevices</i> , 2017 , 19, 39	3.7	15
25	A microfluidic device for partial immobilization, chemical exposure and behavioural screening of zebrafish larvae. <i>Lab on A Chip</i> , 2017 , 17, 4048-4058	7.2	20
24	Semi-Empirical Estimation of Dean Flow Velocity in Curved Microchannels. <i>Scientific Reports</i> , 2017 , 7, 13655	4.9	13
23	Microfluidic Devices and Their Applications. <i>Springer Handbooks</i> , 2017 , 487-536	1.3	16
22	A microfluidic device for quantitative investigation of zebrafish larvae's rheotaxis. <i>Biomedical Microdevices</i> , 2017 , 19, 99	3.7	9
21	Microfluidic Systems to Study the Biology of Human Diseases and Identify Potential Therapeutic Targets in <i>Caenorhabditis elegans</i> 2017 , 581-608		
20	Characterization of microfluidic clamps for immobilizing and imaging of larva's central nervous system. <i>Biomicrofluidics</i> , 2017 , 11, 034113	3.2	11
19	Lab-on-chips for manipulation of small-scale organisms to facilitate imaging of neurons and organs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5749-5752	0.9	1
18	An integrated hybrid microfluidic device for oviposition-based chemical screening of adult <i>Drosophila melanogaster</i> . <i>Lab on A Chip</i> , 2016 , 16, 709-19	7.2	9

17	Microfluidic Approaches for Manipulating, Imaging, and Screening C. elegans. <i>Micromachines</i> , 2016 , 7,	3.3	43
16	Cardiac screening of intact Drosophila melanogaster larvae under exposure to aqueous and gaseous toxins in a microfluidic device. <i>RSC Advances</i> , 2016 , 6, 65714-65724	3.7	9
15	Sheathless and high throughput sorting of paramagnetic microparticles in a magneto-hydrodynamic microfluidic device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 473-476	0.9	1
14	A hybrid microfluidic device for on-demand orientation and multidirectional imaging of organs and neurons. <i>Biomicrofluidics</i> , 2016 , 10, 064111	3.2	12
13	Agar-polydimethylsiloxane devices for quantitative investigation of oviposition behaviour of adult Drosophila melanogaster. <i>Biomicrofluidics</i> , 2015 , 9, 034112	3.2	6
12	Microfluidic devices for imaging neurological response of Drosophila melanogaster larva to auditory stimulus. <i>Lab on A Chip</i> , 2015 , 15, 1116-22	7.2	20
11	A microfluidic phenotype analysis system reveals function of sensory and dopaminergic neuron signaling in C. elegans electrotactic swimming behavior. <i>Worm</i> , 2013 , 2, e24558		27
10	Materials and methods for the microfabrication of microfluidic biomedical devices 2013 , 3-62		7
9	Microfluidic-based electrotaxis for on-demand quantitative analysis of Caenorhabditis elegans' locomotion. <i>Journal of Visualized Experiments</i> , 2013 , e50226	1.6	10
8	Electrical sorting of Caenorhabditis elegans. <i>Lab on A Chip</i> , 2012 , 12, 1831-40	7.2	62
7	Microfabrication of polymers for bioMEMS 2012 , 3-45		2
6	Plasma enhanced bonding of polydimethylsiloxane with parylene and its optimization. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 065024	2	26
5	Plasma enhanced bonding of polydimethylsiloxane (PDMS) with parylene 2011 ,		4
4	Effect of pulse direct current signals on electrotactic movement of nematodes Caenorhabditis elegans and Caenorhabditis briggsae. <i>Biomicrofluidics</i> , 2011 , 5, 44116-441169	3.2	24
3	Behavior of Caenorhabditis elegans in alternating electric field and its application to their localization and control. <i>Applied Physics Letters</i> , 2010 , 96, 153702	3.4	28
2	Electrotaxis of Caenorhabditis elegans in a microfluidic environment. <i>Lab on A Chip</i> , 2010 , 10, 220-6	7.2	109
1	Behavior of Caenorhabditis elegans in alternating electric field and its application to their localization and control 2010 ,		3