

# Ali Ahmadi

## List of Publications by Year in descending order

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41  
papers

1,028  
citations

516710

16  
h-index

434195

31  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. <i>Sensors</i> , 2015, 15, 30011-30031.	3.8	385
2	Improving piezoelectric cell printing accuracy and reliability through neutral buoyancy of suspensions. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2932-2940.	3.3	62
3	Microfluidic and cross-linking methods for encapsulation of living cells and bacteria - A review. <i>Analytica Chimica Acta</i> , 2019, 1053, 1-21.	5.4	61
4	Investigation of the hydrodynamic response of cells in drop on demand piezoelectric inkjet nozzles. <i>Biofabrication</i> , 2016, 8, 015008.	7.1	48
5	Characterization of channel coating and dimensions of microfluidic-based gas detectors. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 55-64.	7.8	44
6	Application of a three-dimensional (3D) particle tracking method to microfluidic particle focusing. <i>Lab on A Chip</i> , 2014, 14, 1443-1451.	6.0	36
7	A review on wound dressings: Antimicrobial agents, biomaterials, fabrication techniques, and stimuli-responsive drug release. <i>European Polymer Journal</i> , 2022, 173, 111293.	5.4	35
8	On-Chip Electronic Nose For Wine Tasting: A Digital Microfluidic Approach. <i>IEEE Sensors Journal</i> , 2017, 17, 4322-4329.	4.7	29
9	Ultra-Portable Smartphone Controlled Integrated Digital Microfluidic System in a 3D-Printed Modular Assembly. <i>Micromachines</i> , 2015, 6, 1289-1305.	2.9	27
10	In situ characterization of microdroplet interfacial properties in digital microfluidic systems. <i>Lab on A Chip</i> , 2010, 10, 1429.	6.0	26
11	Experimental and computational study of microfluidic flow-focusing generation of gelatin methacrylate hydrogel droplets. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	24
12	Low-temperature solvent-based 3D printing of PLGA: a parametric printability study. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 173-178.	2.0	23
13	Rapid fabrication of circular channel microfluidic flow-focusing devices for hydrogel droplet generation. <i>Micro and Nano Letters</i> , 2016, 11, 41-45.	1.3	21
14	Optimization of starch- and chitosan-based bio-inks for 3D bioprinting of scaffolds for neural cell growth. <i>Materialia</i> , 2020, 12, 100737.	2.7	20
15	Development of 3D Printed Drug-Eluting Scaffolds for Preventing Piercing Infection. <i>Pharmaceutics</i> , 2020, 12, 901.	4.5	19
16	Emerging Methods of Monitoring Volatile Organic Compounds for Detection of Plant Pests and Disease. <i>Biosensors</i> , 2022, 12, 239.	4.7	19
17	Development of N,O-Carboxymethyl Chitosan-Starch Biomaterial Inks for 3D Printed Wound Dressing Applications. <i>Macromolecular Bioscience</i> , 2021, 21, e2100368.	4.1	18
18	Electrohydrodynamic modeling of microdroplet transient dynamics in electrocapillary-based digital microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1019-1032.	2.2	15

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19	Investigation of rheology, printability, and biocompatibility of N,O-carboxymethyl chitosan and agarose bioinks for 3D bioprinting of neuron cells. <i>Materialia</i> , 2021, 18, 101169.	2.7	14
20	Gravity-driven hydrodynamic particle separation in digital microfluidic systems. <i>RSC Advances</i> , 2015, 5, 35966-35975.	3.6	13
21	Development of a Disposable Single-Nozzle Printhead for 3D Bioprinting of Continuous Multi-Material Constructs. <i>Micromachines</i> , 2020, 11, 459.	2.9	12
22	Development of a microbe domestication pod (MD Pod) for in situ cultivation of microencapsulated marine bacteria. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1166-1176.	3.3	12
23	Fabrication of microfluidic chips using controlled dissolution of 3D printed scaffolds. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49524.	2.6	10
24	Fabrication of Cellulosic Nonwoven Material Coated with Polyvinyl Alcohol and Zinc Oxide/Mesoporous Silica Nanoparticles for Wound Dressing Purposes with Cephalexin Delivery. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 057003.	1.8	10
25	Highly selective multi-target 3D-printed microfluidic-based breath analyzer. , 2016, , .		9
26	Recent Advances in Algae-Derived Biofuels and Bioactive Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 1232-1249.	3.7	8
27	Numerical study of the microdroplet actuation switching frequency in digital microfluidic biochips. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 295-305.	2.2	5
28	In situ digital microfluidic conductance sampling. <i>Sensors and Actuators A: Physical</i> , 2009, 152, 13-20.	4.1	4
29	Microdroplet evaporation in closed digital microfluidic biochips. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 045001.	2.6	4
30	Investigation of the Hydrodynamics of Suspended Cells for Reliable Inkjet Cell Printing. , 2014, , .		3
31	Effects of Temperature and Extraction Time on Avocado Flesh ( <i>Persea americana</i> ) Total Phenolic Yields Using Subcritical Water Extraction. <i>Processes</i> , 2021, 9, 159.	2.8	3
32	Fabrication of Cellulosic Nonwoven-Based Wound Dressings Coated with CTAB-Loaded Double Network PAMPS/PNaA Hydrogels. <i>Journal of Natural Fibers</i> , 2022, 19, 12718-12735.	3.1	3
33	Numerical Multiphysics Modeling of Microdroplet Motion Dynamics in Digital Microfluidic Systems. , 2010, , .		1
34	Transient inertial flows: A new degree of freedom for particle focusing in microfluidic channels. , 2014, , .		1
35	Apparent size correlation: A simple method to determine vertical positions of particles using conventional microscopy. , 2014, , .		1
36	Impact of electrode design and voltage waveform on low-potential magnetohydrodynamic fluid actuation. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	1

#	ARTICLE	IF	CITATIONS
37	Micro Drop Actuation Using Multiplexer Structures. , 2008, , .		1
38	Effects of Matrix Composition and Temperature on Viability and Metabolic Activity of Microencapsulated Marine Bacteria. Microorganisms, 2022, 10, 996.	3.6	1
39	Numerical Investigation of the Combined Effects of Biomolecular Adsorption and Microdroplet Evaporation on the Performance of the Electrocapillary-Based Digital Microfluidic Systems. , 2011, , .		0
40	Rheological manipulation for improved reliability in inkjet printing of living cells. , 2016, , .		0
41	Front Cover Image, Volume 118, Number 3, March 2021. Biotechnology and Bioengineering, 2021, 118, i.	3.3	0