

Ali Ahmadi

List of Publications by Year in descending order

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41
papers

1,028
citations

586496

16
h-index

488211

31
g-index

41
all docs

41
docs citations

41
times ranked

1750
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Algae-Derived Biofuels and Bioactive Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1232-1249.	1.8	8
2	Emerging Methods of Monitoring Volatile Organic Compounds for Detection of Plant Pests and Disease. <i>Biosensors</i> , 2022, 12, 239.	2.3	19
3	Effects of Matrix Composition and Temperature on Viability and Metabolic Activity of Microencapsulated Marine Bacteria. <i>Microorganisms</i> , 2022, 10, 996.	1.6	1
4	A review on wound dressings: Antimicrobial agents, biomaterials, fabrication techniques, and stimuli-responsive drug release. <i>European Polymer Journal</i> , 2022, 173, 111293.	2.6	35
5	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.	1.7	3
6	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.	1.7	12
7	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.	1.3	3
8	Front Cover Image, Volume 118, Number 3, March 2021. <i>Biotechnology and Bioengineering</i> , 2021, 118, i.	1.7	0
9	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.	0.9	10
10	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.	1.3	14
11	Development of N,O-Carboxymethyl Chitosan-Starch Biomaterial Inks for 3D Printed Wound Dressing Applications. <i>Macromolecular Bioscience</i> , 2021, 21, e2100368.	2.1	18
12	Development of 3D Printed Drug-Eluting Scaffolds for Preventing Piercing Infection. <i>Pharmaceutics</i> , 2020, 12, 901.	2.0	19
13	Development of a Disposable Single-Nozzle Printhead for 3D Bioprinting of Continuous Multi-Material Constructs. <i>Micromachines</i> , 2020, 11, 459.	1.4	12
14	Fabrication of microfluidic chips using controlled dissolution of 3D printed scaffolds. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49524.	1.3	10
15	Optimization of starch- and chitosan-based bio-inks for 3D bioprinting of scaffolds for neural cell growth. <i>Materialia</i> , 2020, 12, 100737.	1.3	20
16	Low-temperature solvent-based 3D printing of PLGA: a parametric printability study. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 173-178.	0.9	23
17	Impact of electrode design and voltage waveform on low-potential magnetohydrodynamic fluid actuation. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	1
18	Microfluidic and cross-linking methods for encapsulation of living cells and bacteria - A review. <i>Analytica Chimica Acta</i> , 2019, 1053, 1-21.	2.6	61

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19	On-Chip Electronic Nose For Wine Tasting: A Digital Microfluidic Approach. IEEE Sensors Journal, 2017, 17, 4322-4329.	2.4	29
20	Characterization of channel coating and dimensions of microfluidic-based gas detectors. Sensors and Actuators B: Chemical, 2017, 241, 55-64.	4.0	44
21	Experimental and computational study of microfluidic flowâ€focusing generation of gelatin methacrylate hydrogel droplets. Journal of Applied Polymer Science, 2016, 133, .	1.3	24
22	Rapid fabrication of circular channel microfluidic flowâ€focusing devices for hydrogel droplet generation. Micro and Nano Letters, 2016, 11, 41-45.	0.6	21
23	Investigation of the hydrodynamic response of cells in drop on demand piezoelectric inkjet nozzles. Biofabrication, 2016, 8, 015008.	3.7	48
24	Rheological manipulation for improved reliability in inkjet printing of living cells. , 2016, , .		0
25	Highly selective multi-target 3D-printed microfluidic-based breath analyzer. , 2016, , .		9
26	Ultra-Portable Smartphone Controlled Integrated Digital Microfluidic System in a 3D-Printed Modular Assembly. Micromachines, 2015, 6, 1289-1305.	1.4	27
27	Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. Sensors, 2015, 15, 30011-30031.	2.1	385
28	Gravity-driven hydrodynamic particle separation in digital microfluidic systems. RSC Advances, 2015, 5, 35966-35975.	1.7	13
29	Transient inertial flows: A new degree of freedom for particle focusing in microfluidic channels. , 2014, , .		1
30	Application of a three-dimensional (3D) particle tracking method to microfluidic particle focusing. Lab on A Chip, 2014, 14, 1443-1451.	3.1	36
31	Apparent size correlation: A simple method to determine vertical positions of particles using conventional microscopy. , 2014, , .		1
32	Investigation of the Hydrodynamics of Suspended Cells for Reliable Inkjet Cell Printing. , 2014, , .		3
33	Microdroplet evaporation in closed digital microfluidic biochips. Journal of Micromechanics and Microengineering, 2013, 23, 045001.	1.5	4
34	Improving piezoelectric cell printing accuracy and reliability through neutral buoyancy of suspensions. Biotechnology and Bioengineering, 2012, 109, 2932-2940.	1.7	62
35	Numerical study of the microdroplet actuation switching frequency in digital microfluidic biochips. Microfluidics and Nanofluidics, 2012, 12, 295-305.	1.0	5
36	Numerical Investigation of the Combined Effects of Biomolecular Adsorption and Microdroplet Evaporation on the Performance of the Electrocappillary-Based Digital Microfluidic Systems. , 2011, , .		0

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37	Electrohydrodynamic modeling of microdroplet transient dynamics in electrocapillary-based digital microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1019-1032.	1.0	15
38	Numerical Multiphysics Modeling of Microdroplet Motion Dynamics in Digital Microfluidic Systems. , 2010, , .		1
39	In situ characterization of microdroplet interfacial properties in digital microfluidic systems. <i>Lab on A Chip</i> , 2010, 10, 1429.	3.1	26
40	In situ digital microfluidic conductance sampling. <i>Sensors and Actuators A: Physical</i> , 2009, 152, 13-20.	2.0	4
41	Micro Drop Actuation Using Multiplexer Structures. , 2008, , .		1