

Kangning Ren

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.

29
papers

1,488
citations

19
h-index

30
g-index

30
ext. papers

1,829
ext. citations

9
avg, IF

4.95
L-index

#	Paper	IF	Citations
29	Fabrication of recyclable, superhydrophobic-superoleophilic quartz sand by facile two-step modification for oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107019	6.8	3
28	The Application of Microfluidic Technologies in Aptamer Selection. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 730035	5.7	2
27	A facile method to prepare stearic acid-TiO ₂ /zinc composite coating with multipronged robustness, self-cleaning property, and corrosion resistance. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160636	5.7	11
26	"Barcode" cell sensor microfluidic system: Rapid and sample-to-answer antimicrobial susceptibility testing applicable in resource-limited conditions. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113516	11.8	0
25	Facile fabrication of superhydrophobic zinc coatings with corrosion resistance via an electrodeposition process. <i>New Journal of Chemistry</i> , 2020 , 44, 8890-8901	3.6	19
24	Defect-induced activity enhancement of enzyme-encapsulated metal-organic frameworks revealed in microfluidic gradient mixing synthesis. <i>Science Advances</i> , 2020 , 6, eaax5785	14.3	82
23	Microfluidic technologies for vasculature biomimicry. <i>Analyst, The</i> , 2019 , 144, 4461-4471	5	22
22	Reliable and reusable whole polypropylene plastic microfluidic devices for a rapid, low-cost antimicrobial susceptibility test. <i>Lab on A Chip</i> , 2019 , 19, 2915-2924	7.2	33
21	Crack engineering for the construction of arbitrary hierarchical architectures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23909-23914	11.5	18
20	A suspending-droplet mode paper-based microfluidic platform for low-cost, rapid, and convenient detection of lead(II) ions in liquid solution. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 361-367	11.8	33
19	Recent progresses in microfabricating perfluorinated polymers (Teflons) and the associated new applications in microfluidics. <i>Microphysiological Systems</i> , 2018 , 1, 1-1	1.3	7
18	A Multiplexed, Gradient-Based, Full-Hydrogel Microfluidic Platform for Rapid, High-Throughput Antimicrobial Susceptibility Testing. <i>ChemPlusChem</i> , 2017 , 82, 792-801	2.8	12
17	Microfluidics for Combating Antimicrobial Resistance. <i>Trends in Biotechnology</i> , 2017 , 35, 1129-1139	15.1	30
16	A one-step strategy for ultra-fast and low-cost mass production of plastic membrane microfluidic chips. <i>Lab on A Chip</i> , 2016 , 16, 3909-3918	7.2	23
15	Convenient, Reliable, Bias-Free Dynamic Patterning of Multiple Types of Cells into Precisely Defined Micropatterns for Co-Culture Study. <i>ChemNanoMat</i> , 2016 , 2, 447-453	3.5	2
14	Cell-on-hydrogel platform made of agar and alginate for rapid, low-cost, multidimensional test of antimicrobial susceptibility. <i>Lab on A Chip</i> , 2016 , 16, 3130-8	7.2	20
13	Freestanding 3-D microvascular networks made of alginate hydrogel as a universal tool to create microchannels inside hydrogels. <i>Biomicrofluidics</i> , 2016 , 10, 044112	3.2	9

12	Low-cost replication of plasmonic gold nanomushroom arrays for transmission-mode and multichannel biosensing. <i>RSC Advances</i> , 2015 , 5, 61270-61276	3.7	7
11	New materials for microfluidics in biology. <i>Current Opinion in Biotechnology</i> , 2014 , 25, 78-85	11.4	77
10	Recent developments in microfluidics for cell studies. <i>Advanced Materials</i> , 2014 , 26, 5525-32	24	67
9	LprG-mediated surface expression of lipoarabinomannan is essential for virulence of <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2014 , 10, e1004376	7.6	63
8	Sorting inactivated cells using cell-imprinted polymer thin films. <i>ACS Nano</i> , 2013 , 7, 6031-6	16.7	54
7	Materials for microfluidic chip fabrication. <i>Accounts of Chemical Research</i> , 2013 , 46, 2396-406	24.3	475
6	Chemical recognition in cell-imprinted polymers. <i>ACS Nano</i> , 2012 , 6, 4314-8	16.7	91
5	Surface-imprinted polymers in microfluidic devices. <i>Science China Chemistry</i> , 2012 , 55, 469-483	7.9	34
4	Pumping-induced perturbation of flow in microfluidic channels and its implications for on-chip cell culture. <i>Lab on A Chip</i> , 2011 , 11, 2288-94	7.2	22
3	Whole-Teflon microfluidic chips. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8162-6	11.5	159
2	Convenient method for modifying poly(dimethylsiloxane) to be airtight and resistive against absorption of small molecules. <i>Analytical Chemistry</i> , 2010 , 82, 5965-71	7.8	51
1	Convenient method for modifying poly(dimethylsiloxane) with poly(ethylene glycol) in microfluidics. <i>Analytical Chemistry</i> , 2009 , 81, 6627-32	7.8	62