

Kangning Ren

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,097
citations

331670

21
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

3209
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.7	11
2	Biomimetic reusable microfluidic reactors with physically immobilized RuBisCO for glucose precursor production. <i>Catalysis Science and Technology</i> , 2022, 12, 5009-5020.	4.1	6
3	The Application of Microfluidic Technologies in Aptamer Selection. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 730035.	3.7	11
4	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.	5.5	36
5	“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.	10.1	4
6	Facile fabrication of superhydrophobic zinc coatings with corrosion resistance <i>via</i> an electrodeposition process. <i>New Journal of Chemistry</i> , 2020, 44, 8890-8901.	2.8	46
7	Defect-induced activity enhancement of enzyme-encapsulated metal-organic frameworks revealed in microfluidic gradient mixing synthesis. <i>Science Advances</i> , 2020, 6, eaax5785.	10.3	185
8	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.	6.0	56
9	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.	7.1	34
10	Microfluidic technologies for vasculature biomimicry. <i>Analyst</i> , The, 2019, 144, 4461-4471.	3.5	34
11	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.	10.1	49
12	A Multiplexed, Gradient-Based, Full-Hydrogel Microfluidic Platform for Rapid, High-Throughput Antimicrobial Susceptibility Testing. <i>ChemPlusChem</i> , 2017, 82, 792-801.	2.8	19
13	Microfluidics for Combating Antimicrobial Resistance. <i>Trends in Biotechnology</i> , 2017, 35, 1129-1139.	9.3	33
14	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.	2.8	2
15	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, 3130-3138.	6.0	29
16	Freestanding 3-D microvascular networks made of alginate hydrogel as a universal tool to create microchannels inside hydrogels. <i>Biomicrofluidics</i> , 2016, 10, 044112.	2.4	13
17	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.	6.0	25
18	Low-cost replication of plasmonic gold nanomushroom arrays for transmission-mode and multichannel biosensing. <i>RSC Advances</i> , 2015, 5, 61270-61276.	3.6	11

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19	LprG-Mediated Surface Expression of Lipoarabinomannan Is Essential for Virulence of Mycobacterium tuberculosis. PLoS Pathogens, 2014, 10, e1004376.	4.7	82
20	New materials for microfluidics in biology. Current Opinion in Biotechnology, 2014, 25, 78-85.	6.6	98
21	Recent Developments in Microfluidics for Cell Studies. Advanced Materials, 2014, 26, 5525-5532.	21.0	82
22	Sorting Inactivated Cells Using Cell-Imprinted Polymer Thin Films. ACS Nano, 2013, 7, 6031-6036.	14.6	60
23	Materials for Microfluidic Chip Fabrication. Accounts of Chemical Research, 2013, 46, 2396-2406.	15.6	664
24	Chemical Recognition in Cell-Imprinted Polymers. ACS Nano, 2012, 6, 4314-4318.	14.6	107
25	Surface-imprinted polymers in microfluidic devices. Science China Chemistry, 2012, 55, 469-483.	8.2	43
26	Pumping-induced perturbation of flow in microfluidic channels and its implications for on-chip cell culture. Lab on A Chip, 2011, 11, 2288.	6.0	26
27	Whole-Teflon microfluidic chips. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8162-8166.	7.1	184
28	Convenient Method for Modifying Poly(dimethylsiloxane) To Be Airtight and Resistive against Absorption of Small Molecules. Analytical Chemistry, 2010, 82, 5965-5971.	6.5	62
29	Convenient Method for Modifying Poly(dimethylsiloxane) with Poly(ethylene glycol) in Microfluidics. Analytical Chemistry, 2009, 81, 6627-6632.	6.5	69
30	Recent progresses in microfabricating perfluorinated polymers (Teflons) and the associated new applications in microfluidics. Microphysiological Systems, 0, 1, 1-1.	2.0	16