

# Kangning Ren

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,097  
citations

331259

21  
h-index

476904

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

3209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for Microfluidic Chip Fabrication. <i>Accounts of Chemical Research</i> , 2013, 46, 2396-2406.	7.6	664
2	Defect-induced activity enhancement of enzyme-encapsulated metal-organic frameworks revealed in microfluidic gradient mixing synthesis. <i>Science Advances</i> , 2020, 6, eaax5785.	4.7	185
3	Whole-Teflon microfluidic chips. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8162-8166.	3.3	184
4	Chemical Recognition in Cell-Imprinted Polymers. <i>ACS Nano</i> , 2012, 6, 4314-4318.	7.3	107
5	New materials for microfluidics in biology. <i>Current Opinion in Biotechnology</i> , 2014, 25, 78-85.	3.3	98
6	LprG-Mediated Surface Expression of Lipoarabinomannan Is Essential for Virulence of <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2014, 10, e1004376.	2.1	82
7	Recent Developments in Microfluidics for Cell Studies. <i>Advanced Materials</i> , 2014, 26, 5525-5532.	11.1	82
8	Convenient Method for Modifying Poly(dimethylsiloxane) with Poly(ethylene glycol) in Microfluidics. <i>Analytical Chemistry</i> , 2009, 81, 6627-6632.	3.2	69
9	Convenient Method for Modifying Poly(dimethylsiloxane) To Be Airtight and Resistive against Absorption of Small Molecules. <i>Analytical Chemistry</i> , 2010, 82, 5965-5971.	3.2	62
10	Sorting Inactivated Cells Using Cell-Imprinted Polymer Thin Films. <i>ACS Nano</i> , 2013, 7, 6031-6036.	7.3	60
11	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.	3.1	56
12	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.	5.3	49
13	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.	1.4	46
14	Surface-imprinted polymers in microfluidic devices. <i>Science China Chemistry</i> , 2012, 55, 469-483.	4.2	43
15	A facile method to prepare stearic acid-TiO <sub>2</sub> /zinc composite coating with multipronged robustness, self-cleaning property, and corrosion resistance. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160636.	2.8	36
16	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.	3.3	34
17	Microfluidic technologies for vasculature biomimicry. <i>Analyst</i> , 2019, 144, 4461-4471.	1.7	34
18	Microfluidics for Combating Antimicrobial Resistance. <i>Trends in Biotechnology</i> , 2017, 35, 1129-1139.	4.9	33

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19	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.	3.1	29
20	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.	3.1	26
21	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.	3.1	25
22	A Multiplexed, Gradient-Based, Full-Hydrogel Microfluidic Platform for Rapid, High-Throughput Antimicrobial Susceptibility Testing. <i>ChemPlusChem</i> , 2017, 82, 792-801.	1.3	19
23	Recent progresses in microfabricating perfluorinated polymers (Teflons) and the associated new applications in microfluidics. <i>Microphysiological Systems</i> , 0, 1, 1-1.	2.0	16
24	Freestanding 3-D microvascular networks made of alginate hydrogel as a universal tool to create microchannels inside hydrogels. <i>Biomicrofluidics</i> , 2016, 10, 044112.	1.2	13
25	Low-cost replication of plasmonic gold nanomushroom arrays for transmission-mode and multichannel biosensing. <i>RSC Advances</i> , 2015, 5, 61270-61276.	1.7	11
26	The Application of Microfluidic Technologies in Aptamer Selection. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 730035.	1.8	11
27	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.	3.3	11
28	Biomimetic reusable microfluidic reactors with physically immobilized RuBisCO for glucose precursor production. <i>Catalysis Science and Technology</i> , 2022, 12, 5009-5020.	2.1	6
29	“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.	5.3	4
30	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.	1.5	2