

# Kangning Ren

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6493500/kangning-ren-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Materials for microfluidic chip fabrication. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 2396-406	24.3	475
28	Whole-Teflon microfluidic chips. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 8162-6	11.5	159
27	Chemical recognition in cell-imprinted polymers. <i>ACS Nano</i> , <b>2012</b> , 6, 4314-8	16.7	91
26	Defect-induced activity enhancement of enzyme-encapsulated metal-organic frameworks revealed in microfluidic gradient mixing synthesis. <i>Science Advances</i> , <b>2020</b> , 6, eaax5785	14.3	82
25	New materials for microfluidics in biology. <i>Current Opinion in Biotechnology</i> , <b>2014</b> , 25, 78-85	11.4	77
24	Recent developments in microfluidics for cell studies. <i>Advanced Materials</i> , <b>2014</b> , 26, 5525-32	24	67
23	LprG-mediated surface expression of lipoarabinomannan is essential for virulence of <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004376	7.6	63
22	Convenient method for modifying poly(dimethylsiloxane) with poly(ethylene glycol) in microfluidics. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6627-32	7.8	62
21	Sorting inactivated cells using cell-imprinted polymer thin films. <i>ACS Nano</i> , <b>2013</b> , 7, 6031-6	16.7	54
20	Convenient method for modifying poly(dimethylsiloxane) to be airtight and resistive against absorption of small molecules. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 5965-71	7.8	51
19	Surface-imprinted polymers in microfluidic devices. <i>Science China Chemistry</i> , <b>2012</b> , 55, 469-483	7.9	34
18	Reliable and reusable whole polypropylene plastic microfluidic devices for a rapid, low-cost antimicrobial susceptibility test. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2915-2924	7.2	33
17	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> , <b>2018</b> , 99, 361-367	11.8	33
16	Microfluidics for Combating Antimicrobial Resistance. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 1129-1139	15.1	30
15	A one-step strategy for ultra-fast and low-cost mass production of plastic membrane microfluidic chips. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3909-3918	7.2	23
14	Microfluidic technologies for vasculature biomimicry. <i>Analyst, The</i> , <b>2019</b> , 144, 4461-4471	5	22
13	Pumping-induced perturbation of flow in microfluidic channels and its implications for on-chip cell culture. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2288-94	7.2	22

12	Cell-on-hydrogel platform made of agar and alginate for rapid, low-cost, multidimensional test of antimicrobial susceptibility. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3130-8	7.2	20
11	Facile fabrication of superhydrophobic zinc coatings with corrosion resistance via an electrodeposition process. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 8890-8901	3.6	19
10	Crack engineering for the construction of arbitrary hierarchical architectures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 23909-23914	11.5	18
9	A Multiplexed, Gradient-Based, Full-Hydrogel Microfluidic Platform for Rapid, High-Throughput Antimicrobial Susceptibility Testing. <i>ChemPlusChem</i> , <b>2017</b> , 82, 792-801	2.8	12
8	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> , <b>2021</b> , 882, 160636	5.7	11
7	Freestanding 3-D microvascular networks made of alginate hydrogel as a universal tool to create microchannels inside hydrogels. <i>Biomicrofluidics</i> , <b>2016</b> , 10, 044112	3.2	9
6	Low-cost replication of plasmonic gold nanomushroom arrays for transmission-mode and multichannel biosensing. <i>RSC Advances</i> , <b>2015</b> , 5, 61270-61276	3.7	7
5	Recent progresses in microfabricating perfluorinated polymers (Teflons) and the associated new applications in microfluidics. <i>Microphysiological Systems</i> , <b>2018</b> , 1, 1-1	1.3	7
4	Fabrication of recyclable, superhydrophobic-superoleophilic quartz sand by facile two-step modification for oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107019	6.8	3
3	Convenient, Reliable, Bias-Free Dynamic Patterning of Multiple Types of Cells into Precisely Defined Micropatterns for Co-Culture Study. <i>ChemNanoMat</i> , <b>2016</b> , 2, 447-453	3.5	2
2	The Application of Microfluidic Technologies in Aptamer Selection. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 730035	5.7	2
1	"Barcode" cell sensor microfluidic system: Rapid and sample-to-answer antimicrobial susceptibility testing applicable in resource-limited conditions. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 192, 113516	11.8	0