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List of Publications by Year
in descending order

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Version: 2024-02-01

31 papers	702 citations	567281 15 h-index	580821 25 g-index
31 all docs	31 docs citations	31 times ranked	914 citing authors

#	Article	IF	Citations
1	Vapor and Gas-Bubble Growth Dynamics around Laser-Irradiated, Water-Immersed Plasmonic Nanoparticles. ACS Nano, 2017, 11, 2045-2051.	14.6	93
2	Giant and explosive plasmonic bubbles by delayed nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7676-7681.	7.1	76
3	An effective passive micromixer with shifted trapezoidal blades using wide Reynolds number range. Chemical Engineering Research and Design, 2015, 93, 1-11.	5.6	62
4	Multiplexed bloodâ€“brain barrier organ-on-chip. Lab on A Chip, 2020, 20, 3132-3143.	6.0	48
5	Geometric effects on mixing performance in a novel passive micromixer with trapezoidal-zigzag channels. Journal of Micromechanics and Microengineering, 2015, 25, 094004.	2.6	45
6	Large-scale fabrication of free-standing and sub-Î¼m PDMS through-hole membranes. Nanoscale, 2018, 10, 7711-7718.	5.6	39
7	Microfluidics Assisted Fabrication of Three-Tier Hierarchical Microparticles for Constructing Bioinspired Surfaces. ACS Nano, 2019, 13, 3638-3648.	14.6	37
8	Growth and Detachment of Oxygen Bubbles Induced by Gold-Catalyzed Decomposition of Hydrogen Peroxide. Journal of Physical Chemistry C, 2017, 121, 20769-20776.	3.1	31
9	Plasmonic Bubble Nucleation and Growth in Water: Effect of Dissolved Air. Journal of Physical Chemistry C, 2019, 123, 23586-23593.	3.1	29
10	Large-scale fabrication of highly ordered sub-20â€‰nm noble metal nanoparticles on silica substrates without metallic adhesion layers. Microsystems and Nanoengineering, 2018, 4, 4.	7.0	24
11	Shrinkage Control of Photoresist for Largeâ€Area Fabrication of Subâ€30 nm Periodic Nanocolumns. Advanced Materials Technologies, 2017, 2, 1600238.	5.8	23
12	Plasmonic Nanocrystal Arrays on Photonic Crystals with Tailored Optical Resonances. ACS Applied Materials & Interfaces, 2020, 12, 37657-37669.	8.0	21
13	Self-Propelled Detachment upon Coalescence of Surface Bubbles. Physical Review Letters, 2021, 127, 235501.	7.8	21
14	Wafer-scale fabrication of high-quality tunable gold nanogap arrays for surface-enhanced Raman scattering. Nanoscale, 2019, 11, 12152-12160.	5.6	19
15	Transwellâ€Integrated 2 Âµm Thick Transparent Polydimethylsiloxane Membranes with Controlled Pore Sizes and Distribution to Model the Bloodâ€Brain Barrier. Advanced Materials Technologies, 2021, 6, 2100138.	5.8	17
16	Postdeposition UV-Ozone Treatment: An Enabling Technique to Enhance the Direct Adhesion of Gold Thin Films to Oxidized Silicon. ACS Nano, 2019, 13, 6782-6789.	14.6	16
17	Multilevel Spherical Photonic Crystals with Controllable Structures and Structureâ€Enhanced Functionalities. Advanced Optical Materials, 2020, 8, 1902164.	7.3	16
18	Low-Cost Fabrication of Hollow Microneedle Arrays Using CNC Machining and UV Lithography. Journal of Microelectromechanical Systems, 2015, 24, 1583-1593.	2.5	14

#	Article	IF	Citations
19	Fabrication of freestanding Pt nanowires for use as thermal anemometry probes in turbulence measurements. Microsystems and Nanoengineering, 2021, 7, 28.	7.0	11
20	Wafer-scale 3D shaping of high aspect ratio structures by multistep plasma etching and corner lithography. Microsystems and Nanoengineering, 2020, 6, 25.	7.0	10
21	Enhanced Protein Crystallization on Nafion Membranes Modified by Low-Cost Surface Patterning Techniques. Crystal Growth and Design, 2020, 20, 2174-2186.	3.0	9
22	A Simple and Low Cost Micromixer for Laminar Blood Mixing: Design, Optimization, and Analysis. Communications in Computer and Information Science, 2014, , 91-104.	0.5	8
23	Plasmonic Bubble Nucleation in Binary Liquids. Journal of Physical Chemistry C, 2020, 124, 2591-2597.	3.1	7
24	A novel design of hollow microneedle for blood sample collection. , 2014, , .		5
25	Optimal design of polymerâ€based microneedle for improved collection of whole blood from human fingers. Micro and Nano Letters, 2014, 9, 644-649.	1.3	5
26	A novel passive micromixer with trapezoidal blades for high mixing efficiency at low Reynolds number flow. , 2014, , .		4
27	A novel micromixer with multimixing mechanisms for high mixing efficiency at low Reynolds number. , 2014, , .		3
28	Engulfment control of platinum nanoparticles into oxidized silicon substrates for fabrication of dense solid-state nanopore arrays. Nanotechnology, 2019, 30, 065301.	2.6	3
29	A study on mechanical strength of pyramid-shaped microneedle. , 2014, , .		2
30	A novel design of passive split and recombination micromixer with trapezoidal zigzag channels. , 2015, , .		2
31	Wafer-scale nanostructure formation inside vertical nano-pores. , 2017, , .		2