

Sun Choi

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

458
citations

932766

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752256

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21
docs citations

21
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	Coffee-Ring Effect-Based Three Dimensional Patterning of Micro/Nanoparticle Assembly with a Single Droplet. <i>Langmuir</i> , 2010, 26, 11690-11698.	1.6	131
2	Liquid Cell Electron Microscopy of Nanoparticle Self-Assembly Driven by Solvent Drying. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 647-654.	2.1	41
3	Fast, High-Throughput Creation of Size-Tunable Micro/Nanoparticle Clusters via Evaporative Self-Assembly in Picoliter-Scale Droplets of Particle Suspension. <i>Langmuir</i> , 2012, 28, 3102-3111.	1.6	40
4	Ultrafast Self-Assembly of Microscale Particles by Open-Channel Flow. <i>Langmuir</i> , 2010, 26, 4661-4667.	1.6	38
5	Performance of small spark ignition engine fueled with biogas at different compression ratio and various carbon dioxide dilution. <i>Fuel</i> , 2017, 196, 217-224.	3.4	38
6	Quantitative studies of long-term stable, top-down fabricated silicon nanowire pH sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 421-428.	1.1	31
7	Facile one-pot synthesis of tungsten oxide ($WO_3 \cdot xH_2O$) nanoparticles using sub and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2016, 111, 8-13.	1.6	20
8	An analysis of evaporative self-assembly of micro particles in printed picoliter suspension droplets. <i>Thin Solid Films</i> , 2013, 537, 180-189.	0.8	19
9	Direct Printing of Functional Nanofibers on 3D Surfaces Using Self-Aligning Nanojet in Near-Field Electrospinning. <i>Advanced Materials Technologies</i> , 2020, 5, 2000232.	3.0	18
10	High resolution patterning of nanoparticles by evaporative self-assembly enabled by in situ creation and mechanical lift-off of a polymer template. <i>Applied Physics Letters</i> , 2011, 99, 253102.	1.5	13
11	Graphene Oxide-Chitosan Network on a Dialysis Cellulose Membrane for Efficient Removal of Organic Dyes. <i>ACS Applied Bio Materials</i> , 2022, 5, 2795-2811.	2.3	12
12	A 3D-printed metal column for micro gas chromatography. <i>Lab on A Chip</i> , 2020, 20, 3435-3444.	3.1	11
13	Analytic solution to predict the outlet air states of a desiccant wheel with an arbitrary split ratio. <i>Energy</i> , 2018, 153, 301-310.	4.5	10
14	Protein Mixture Segregation at Coffee-Ring: Real-Time Imaging of Protein Ring Precipitation by FTIR Spectromicroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7359-7365.	1.2	8
15	Droplet-jet mode near-field electrospinning for controlled helix patterns with sub-10 μm coiling diameter. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 045004.	1.5	8
16	Nanoscale Fiber Deposition via Surface Charge Migration at Air-to-Polymer Liquid Interface in Near-Field Electrospinning. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2761-2768.	2.0	8
17	Suspended graphene sensor with controllable width and electrical tunability via direct-write functional fibers. <i>Journal of Manufacturing Processes</i> , 2020, 58, 458-465.	2.8	7
18	Synthesis of Micro-encapsulated Phase Change Materials Using Chain Transfer Agent via Emulsion Polymerization and Their Chemical, Optical, and Thermal Characterization. <i>Jom</i> , 2019, 71, 4562-4568.	0.9	3

#	ARTICLE	IF	CITATIONS
19	3D Printed Injection Molding for Prototyping Batch Fabrication of Macroscale Graphene/Paraffin Spheres for Thermal Energy Management. <i>Jom</i> , 2019, 71, 4569-4577.	0.9	1
20	Understanding Uniform, Fast, and Scalable Buoyancy-Driven Macro-Sized Drop Generations. <i>Langmuir</i> , 2019, 35, 990-999.	1.6	1