

Tae Soup Shim

List of Publications by Year in descending order

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36
papers

1,658
citations

430442

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times ranked

2839
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Changing DNA-Linked Nanoparticle Films Dictated by Lateral and Vertical Patterns. <i>Advanced Materials</i> , 2022, 34, e2109091.	11.1	6
2	Solvatochromic discrimination of alcoholic solvents by structural colors of polydopamine nanoparticle thin films. <i>Colloids and Interface Science Communications</i> , 2022, 48, 100624.	2.0	6
3	Fabrication of a tunable photothermal actuator <i>via in situ</i> oxidative polymerization of polydopamine nanoparticles in hydrogel bilayers. <i>Soft Matter</i> , 2022, 18, 4604-4612.	1.2	5
4	Thermogelling Behaviors of Aqueous Poly(N-Isopropylacrylamide-co-2-Hydroxyethyl Methacrylate) Microgel-Silica Nanoparticle Composite Dispersions. <i>Materials</i> , 2021, 14, 1212.	1.3	3
5	Stepwise Evolution of Crease Patterns on Stimuli-Responsive Hydrogels for the Production of Long-Range Ordered Structures. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001551.	1.9	3
6	Long-Range Ordered Structures: Stepwise Evolution of Crease Patterns on Stimuli-Responsive Hydrogels for the Production of Long-Range Ordered Structures (<i>Adv. Mater. Interfaces</i> 24/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070136.	1.9	0
7	Agarose/Spherical Activated Carbon Composite Gels for Recyclable and Shape-Configurable Electrodes. <i>Polymers</i> , 2019, 11, 875.	2.0	1
8	Real-time pressure monitoring system for microfluidic devices using deformable colloidal crystal membrane. <i>Lab on A Chip</i> , 2019, 19, 3954-3961.	3.1	6
9	Hydrogel micropost-based qPCR for multiplex detection of miRNAs associated with Alzheimer's disease. <i>Biosensors and Bioelectronics</i> , 2018, 101, 235-244.	5.3	28
10	Lithographically Designed Conical Microcarriers for Programed Release of Multiple Actives. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701163.	1.9	5
11	Microscale Patterning of Electrochromic Polymer Films via Soft Lithography. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-8.	1.2	1
12	DNA-Functionalized 100 nm Polymer Nanoparticles from Block Copolymer Micelles. <i>Langmuir</i> , 2018, 34, 11042-11048.	1.6	8
13	Reaction-Diffusion-Mediated Photolithography for Designing Pseudo-3D Microstructures. <i>Small</i> , 2017, 13, 1603516.	5.2	12
14	Selective Coloration of Melanin Nanospheres through Resonant Mie Scattering. <i>Advanced Materials</i> , 2017, 29, 1700256.	11.1	54
15	Soft-, shape changing materials toward physicochemically powered actuators. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2355-2365.	1.2	5
16	Inertio-elastic flow instabilities in a 90° bent microchannel. <i>Soft Matter</i> , 2017, 13, 5656-5664.	1.2	12
17	Soft patchy micelles. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 30, 97-105.	3.4	23
18	Elastic effects of dilute polymer solution on bubble generation in a microfluidic flow-focusing channel. <i>Korea Australia Rheology Journal</i> , 2017, 29, 147-153.	0.7	4

#	ARTICLE	IF	CITATIONS
19	Shape changing thin films powered by DNA hybridization. <i>Nature Nanotechnology</i> , 2017, 12, 41-47.	15.6	51
20	Lithographic Design of Overhanging Microdisk Arrays Toward Omniphobic Surfaces. <i>Advanced Materials</i> , 2016, 28, 291-298.	11.1	55
21	Tuning the Mechanical Properties of Recombinant Protein-Stabilized Gas Bubbles Using Triblock Copolymers. <i>ACS Macro Letters</i> , 2016, 5, 371-376.	2.3	8
22	Microfluidic production of multiple emulsions and functional microcapsules. <i>Lab on A Chip</i> , 2016, 16, 3415-3440.	3.1	187
23	Spatially Selective Nucleation and Growth of Water Droplets on Hierarchically Patterned Polymer Surfaces. <i>Advanced Materials</i> , 2016, 28, 1433-1439.	11.1	53
24	Magnetic-Nanoflocculant-Assisted Water-Nonpolar Solvent Interface Sieve for Microalgae Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18336-18343.	4.0	39
25	Dynamic designing of microstructures by chemical gradient-mediated growth. <i>Nature Communications</i> , 2015, 6, 6584.	5.8	31
26	Regenerative Astaxanthin Extraction from a Single Microalgal (<i>Haematococcus pluvialis</i>) Cell Using a Gold Nano-Scalpel. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22702-22708.	4.0	23
27	Hierarchical Structures: 3D Hierarchical Architectures Prepared by Single Exposure Through a Highly Durable Colloidal Phase Mask (Adv. Mater. 9/2014). <i>Advanced Materials</i> , 2014, 26, 1421-1421.	11.1	1
28	3D Hierarchical Architectures Prepared by Single Exposure Through a Highly Durable Colloidal Phase Mask. <i>Advanced Materials</i> , 2014, 26, 1422-1426.	11.1	45
29	Direct Fabrication of Hexagonally Ordered Ridged Nanoarchitectures via Dual Interference Lithography for Efficient Sensing Applications. <i>Small</i> , 2014, 10, 1490-1494.	5.2	18
30	Droplet Microfluidics for Producing Functional Microparticles. <i>Langmuir</i> , 2014, 30, 1473-1488.	1.6	199
31	Nanocrystalline Calcitic Lens Arrays Fabricated by Self-Assembly Followed by Amorphous-to-Crystalline Phase Transformation. <i>ACS Nano</i> , 2014, 8, 9233-9238.	7.3	12
32	Elaborate Design Strategies Toward Novel Microcarriers for Controlled Encapsulation and Release. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 9-45.	1.2	67
33	Colloidal Photonic Crystals toward Structural Color Palettes for Security Materials. <i>Chemistry of Materials</i> , 2013, 25, 2684-2690.	3.2	315
34	High-throughput optofluidic platforms for mosaicked microfibers toward multiplex analysis of biomolecules. <i>Lab on A Chip</i> , 2012, 12, 3676.	3.1	33
35	Controlled Origami Folding of Hydrogel Bilayers with Sustained Reversibility for Robust Microcarriers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1420-1423.	7.2	194
36	Dynamic Modulation of Photonic Bandgaps in Crystalline Colloidal Arrays Under Electric Field. <i>Advanced Materials</i> , 2010, 22, 4494-4498.	11.1	144