

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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344852

36
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docs citations

38
times ranked

2839
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Colloidal Photonic Crystals toward Structural Color Palettes for Security Materials. <i>Chemistry of Materials</i> , 2013, 25, 2684-2690. | 3.2 | 315 |
| 2 | Droplet Microfluidics for Producing Functional Microparticles. <i>Langmuir</i> , 2014, 30, 1473-1488. | 1.6 | 199 |
| 3 | 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 |
| 4 | Microfluidic production of multiple emulsions and functional microcapsules. <i>Lab on A Chip</i> , 2016, 16, 3415-3440. | 3.1 | 187 |
| 5 | Dynamic Modulation of Photonic Bandgaps in Crystalline Colloidal Arrays Under Electric Field. <i>Advanced Materials</i> , 2010, 22, 4494-4498. | 11.1 | 144 |
| 6 | 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 |
| 7 | Lithographic Design of Overhanging Microdisk Arrays Toward Omniphobic Surfaces. <i>Advanced Materials</i> , 2016, 28, 291-298. | 11.1 | 55 |
| 8 | Selective Coloration of Melanin Nanospheres through Resonant Mie Scattering. <i>Advanced Materials</i> , 2017, 29, 1700256. | 11.1 | 54 |
| 9 | Spatially Selective Nucleation and Growth of Water Droplets on Hierarchically Patterned Polymer Surfaces. <i>Advanced Materials</i> , 2016, 28, 1433-1439. | 11.1 | 53 |
| 10 | Shape changing thin films powered by DNA hybridization. <i>Nature Nanotechnology</i> , 2017, 12, 41-47. | 15.6 | 51 |
| 11 | 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 |
| 12 | Magnetic-Nanoflocculant-Assisted Water-Nonpolar Solvent Interface Sieve for Microalgae Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18336-18343. | 4.0 | 39 |
| 13 | High-throughput optofluidic platforms for mosaicked microfibers toward multiplex analysis of biomolecules. <i>Lab on A Chip</i> , 2012, 12, 3676. | 3.1 | 33 |
| 14 | Dynamic designing of microstructures by chemical gradient-mediated growth. <i>Nature Communications</i> , 2015, 6, 6584. | 5.8 | 31 |
| 15 | 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 |
| 16 | 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 |
| 17 | Soft patchy micelles. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 30, 97-105. | 3.4 | 23 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | Reaction-Diffusion-Mediated Photolithography for Designing Pseudo-3D Microstructures. <i>Small</i> , 2017, 13, 1603516. | 5.2 | 12 |
| 21 | Inertio-elastic flow instabilities in a 90° bent microchannel. <i>Soft Matter</i> , 2017, 13, 5656-5664. | 1.2 | 12 |
| 22 | 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 |
| 23 | DNA-Functionalized 100 nm Polymer Nanoparticles from Block Copolymer Micelles. <i>Langmuir</i> , 2018, 34, 11042-11048. | 1.6 | 8 |
| 24 | 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 |
| 25 | Shape-Changing DNA-Linked Nanoparticle Films Dictated by Lateral and Vertical Patterns. <i>Advanced Materials</i> , 2022, 34, e2109091. | 11.1 | 6 |
| 26 | 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 |
| 27 | Soft-, shape changing materials toward physicochemically powered actuators. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2355-2365. | 1.2 | 5 |
| 28 | Lithographically Designed Conical Microcarriers for Programed Release of Multiple Actives. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701163. | 1.9 | 5 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Hierarchical Structures: 3D Hierarchical Architectures Prepared by Single Exposure Through a Highly Durable Colloidal Phase Mask (<i>Adv. Mater.</i> 9/2014). <i>Advanced Materials</i> , 2014, 26, 1421-1421. | 11.1 | 1 |
| 34 | Microscale Patterning of Electrochromic Polymer Films via Soft Lithography. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-8. | 1.2 | 1 |
| 35 | Agarose/Spherical Activated Carbon Composite Gels for Recyclable and Shape-Configurable Electrodes. <i>Polymers</i> , 2019, 11, 875. | 2.0 | 1 |
| 36 | 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 |