Shuwang Wu

List of Publications by Year
in descending order

37 papers	2,586 citations	279487 23 h-index	315357 38 g-index
39 all docs	39 docs citations	39 times ranked	2158 citing authors

#	Article	IF	Citations
1	Stimuli-Responsive Polymers for Soft Robotics. Annual Review of Control, Robotics, and Autonomous Systems, 2022, 5, 515-545.	7.5	21
2	Hydrogel Ionotronics with Ultraâ€Low Impedance and High Signal Fidelity across Broad Frequency and Temperature Ranges. Advanced Functional Materials, 2022, 32, 2109506.	7.8	34
3	Gold Nanoprobes Exploring the Ice Structure in the Aqueous Dispersion of Poly(Ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.6	4
4	Transparent, Photothermal, and Icephobic Surfaces via Layerâ€byâ€Layer Assembly. Advanced Science, 2022, 9, e2105986.	5.6	14
5	Tuning structural and mechanical anisotropy of PVA hydrogels. Mechanics of Materials, 2022, 172, 104411.	1.7	6
6	4D Printable Tough and Thermoresponsive Hydrogels. ACS Applied Materials & Interfaces, 2021, 13, 12689-12697.	4.0	74
7	Strong tough hydrogels via the synergy of freeze-casting and salting out. Nature, 2021, 590, 594-599.	13.7	625
8	Poly(vinyl alcohol) Hydrogels with Broadâ€Range Tunable Mechanical Properties via the Hofmeister Effect. Advanced Materials, 2021, 33, e2007829.	11.1	292
9	Rapid and scalable fabrication of ultraâ€stretchable, antiâ€freezing conductive gels by cononsolvency effect. EcoMat, 2021, 3, e12085.	6.8	26
10	Tunable Spongeâ€Like Hierarchically Porous Hydrogels with Simultaneously Enhanced Diffusivity and Mechanical Properties. Advanced Materials, 2021, 33, e2008235.	11.1	82
11	Solar anti-icing surface with enhanced condensate self-removing at extreme environmental conditions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	63
12	Artificial Phototropic Systems for Enhanced Light Harvesting Based on a Liquid Crystal Elastomer. Advanced Intelligent Systems, 2021, 3, 2000234.	3.3	7
13	Toughâ€Hydrogel Reinforced Lowâ€Tortuosity Conductive Networks for Stretchable and Highâ€Performance Supercapacitors. Advanced Materials, 2021, 33, e2100983.	11.1	63
14	Tendon-inspired anti-freezing tough gels. IScience, 2021, 24, 102989.	1.9	15
15	Ion-Specific Effects on the Growth of Single Ice Crystals. Journal of Physical Chemistry Letters, 2021, 12, 8726-8731.	2.1	10
16	Artificial Phototropic Systems for Enhanced Light Harvesting Based on a Liquid Crystal Elastomer. Advanced Intelligent Systems, 2021, 3, 2170070.	3.3	2
17	Unraveling Molecular Mechanism on Dilute Surfactant Solution Controlled Ice Recrystallization. Langmuir, 2020, 36, 1691-1698.	1.6	8
18	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. Science Advances, 2020, 6, .	4.7	124

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19	Inorganic Photonic Microspheres with Localized Concentric Ordering for Deep Pattern Encoding and Triple Sensory Microsensor. Small, 2020, 16, e2003638.	5.2	10
20	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. Angewandte Chemie, 2020, 132, 15253-15258.	1.6	2
21	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. Angewandte Chemie - International Edition, 2020, 59, 15141-15146.	7.2	8
22	Superhydrophobic photothermal icephobic surfaces based on candle soot. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11240-11246.	3.3	220
23	Recrystallized ice-templated electroless plating for fabricating flexible transparent copper meshes. RSC Advances, 2020, 10, 9894-9901.	1.7	10
24	Bioinspired Multifunctional Anti-icing Hydrogel. Matter, 2020, 2, 723-734.	5.0	150
25	Woodâ€Inspired Morphologically Tunable Aligned Hydrogel for Highâ€Performance Flexible Allâ€Solidâ€State Supercapacitors. Advanced Functional Materials, 2020, 30, 1909133.	7.8	62
26	Hydroxyl Groups on the Graphene Surfaces Facilitate Ice Nucleation. Journal of Physical Chemistry Letters, 2019, 10, 2458-2462.	2.1	24
27	Heterogeneous ice nucleation correlates with bulk-like interfacial water. Science Advances, 2019, 5, eaat9825.	4.7	60
28	Interfacial Materials for Antiâ€Icing: Beyond Superhydrophobic Surfaces. Chemistry - an Asian Journal, 2018, 13, 1406-1414.	1.7	25
29	Tuning Ice Nucleation and Propagation with Counterions on Multilayer Hydrogels. Langmuir, 2018, 34, 11986-11991.	1.6	17
30	Ion-specific ice propagation behavior on polyelectrolyte brush surfaces. RSC Advances, 2017, 7, 840-844.	1.7	34
31	Durable Anti-Icing Coatings Based on Self-Sustainable Lubricating Layer. ACS Omega, 2017, 2, 2047-2054.	1.6	40
32	Ion-specific ice recrystallization provides a facile approach for the fabrication of porous materials. Nature Communications, 2017, 8, 15154.	5.8	71
33	Bioinspired Solid Organogel Materials with a Regenerable Sacrificial Alkane Surface Layer. Advanced Materials, 2017, 29, 1700865.	11.1	109
34	Oxidized Quasiâ€Carbon Nitride Quantum Dots Inhibit Ice Growth. Advanced Materials, 2017, 29, 1606843.	11.1	121
35	Size Controllable, Transparent, and Flexible 2D Silver Meshes Using Recrystallized Ice Crystals as Templates. ACS Nano, 2017, 11, 9898-9905.	7.3	38
36	Highly Efficient and Robust Oil/Water Separation Materials Based on Wire Mesh Coated by Reduced Graphene Oxide. Langmuir, 2017, 33, 9590-9597.	1.6	25

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37	Selfâ€Replenishable Antiâ€Waxing Organogel Materials. Angewandte Chemie - International Edition, 2015, 54, 8975-8979.	7.2	71