

# Shuwang Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Strong tough hydrogels via the synergy of freeze-casting and salting out. <i>Nature</i> , 2021, 590, 594-599.	13.7	625
2	Poly(vinyl alcohol) Hydrogels with Broad-Range Tunable Mechanical Properties via the Hofmeister Effect. <i>Advanced Materials</i> , 2021, 33, e2007829.	11.1	292
3	Superhydrophobic photothermal icephobic surfaces based on candle soot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11240-11246.	3.3	220
4	Bioinspired Multifunctional Anti-icing Hydrogel. <i>Matter</i> , 2020, 2, 723-734.	5.0	150
5	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. <i>Science Advances</i> , 2020, 6, .	4.7	124
6	Oxidized Quasi-Carbon Nitride Quantum Dots Inhibit Ice Growth. <i>Advanced Materials</i> , 2017, 29, 1606843.	11.1	121
7	Bioinspired Solid Organogel Materials with a Regenerable Sacrificial Alkane Surface Layer. <i>Advanced Materials</i> , 2017, 29, 1700865.	11.1	109
8	Tunable Sponge-Like Hierarchically Porous Hydrogels with Simultaneously Enhanced Diffusivity and Mechanical Properties. <i>Advanced Materials</i> , 2021, 33, e2008235.	11.1	82
9	4D Printable Tough and Thermoresponsive Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12689-12697.	4.0	74
10	Self-Replenishable Anti-Waxing Organogel Materials. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8975-8979.	7.2	71
11	Ion-specific ice recrystallization provides a facile approach for the fabrication of porous materials. <i>Nature Communications</i> , 2017, 8, 15154.	5.8	71
12	Solar anti-icing surface with enhanced condensate self-removing at extreme environmental conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	63
13	Tough Hydrogel Reinforced Low-Tortuosity Conductive Networks for Stretchable and High-Performance Supercapacitors. <i>Advanced Materials</i> , 2021, 33, e2100983.	11.1	63
14	Wood-Inspired Morphologically Tunable Aligned Hydrogel for High-Performance Flexible All-Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1909133.	7.8	62
15	Heterogeneous ice nucleation correlates with bulk-like interfacial water. <i>Science Advances</i> , 2019, 5, eaat9825.	4.7	60
16	Durable Anti-Icing Coatings Based on Self-Sustainable Lubricating Layer. <i>ACS Omega</i> , 2017, 2, 2047-2054.	1.6	40
17	Size Controllable, Transparent, and Flexible 2D Silver Meshes Using Recrystallized Ice Crystals as Templates. <i>ACS Nano</i> , 2017, 11, 9898-9905.	7.3	38
18	Ion-specific ice propagation behavior on polyelectrolyte brush surfaces. <i>RSC Advances</i> , 2017, 7, 840-844.	1.7	34

#	ARTICLE	IF	CITATIONS
19	Hydrogel Ionotronics with Ultra-Low Impedance and High Signal Fidelity across Broad Frequency and Temperature Ranges. <i>Advanced Functional Materials</i> , 2022, 32, 2109506.	7.8	34
20	Rapid and scalable fabrication of ultra-stretchable, anti-freezing conductive gels by cononsolvency effect. <i>EcoMat</i> , 2021, 3, e12085.	6.8	26
21	Highly Efficient and Robust Oil/Water Separation Materials Based on Wire Mesh Coated by Reduced Graphene Oxide. <i>Langmuir</i> , 2017, 33, 9590-9597.	1.6	25
22	Interfacial Materials for Anti-Icing: Beyond Superhydrophobic Surfaces. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1406-1414.	1.7	25
23	Hydroxyl Groups on the Graphene Surfaces Facilitate Ice Nucleation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2458-2462.	2.1	24
24	Stimuli-Responsive Polymers for Soft Robotics. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2022, 5, 515-545.	7.5	21
25	Tuning Ice Nucleation and Propagation with Counterions on Multilayer Hydrogels. <i>Langmuir</i> , 2018, 34, 11986-11991.	1.6	17
26	Tendon-inspired anti-freezing tough gels. <i>IScience</i> , 2021, 24, 102989.	1.9	15
27	Transparent, Photothermal, and Icephobic Surfaces via Layer-by-Layer Assembly. <i>Advanced Science</i> , 2022, 9, e2105986.	5.6	14
28	Inorganic Photonic Microspheres with Localized Concentric Ordering for Deep Pattern Encoding and Triple Sensory Microsensor. <i>Small</i> , 2020, 16, e2003638.	5.2	10
29	Recrystallized ice-templated electroless plating for fabricating flexible transparent copper meshes. <i>RSC Advances</i> , 2020, 10, 9894-9901.	1.7	10
30	Ion-Specific Effects on the Growth of Single Ice Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8726-8731.	2.1	10
31	Unraveling Molecular Mechanism on Dilute Surfactant Solution Controlled Ice Recrystallization. <i>Langmuir</i> , 2020, 36, 1691-1698.	1.6	8
32	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15141-15146.	7.2	8
33	Artificial Phototropic Systems for Enhanced Light Harvesting Based on a Liquid Crystal Elastomer. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000234.	3.3	7
34	Tuning structural and mechanical anisotropy of PVA hydrogels. <i>Mechanics of Materials</i> , 2022, 172, 104411.	1.7	6
35	Gold Nanoprobes Exploring the Ice Structure in the Aqueous Dispersion of Poly(Ethylene Terephthalate) Nanofibers. <i>ACS Applied Materials</i> , 2021, 13, 10743-10751.	1.6	4
36	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. <i>Angewandte Chemie</i> , 2020, 132, 15253-15258.	1.6	2

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37	Artificial Phototropic Systems for Enhanced Light Harvesting Based on a Liquid Crystal Elastomer. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170070.	3.3	2