

# Zhiyuan He

## List of Publications by Year in descending order

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33  
papers

1,436  
citations

331259

21  
h-index

414034

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g-index

34  
all docs

34  
docs citations

34  
times ranked

1262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired Materials for Controlling Ice Nucleation, Growth, and Recrystallization. <i>Accounts of Chemical Research</i> , 2018, 51, 1082-1091.	7.6	159
2	Bioinspired Multifunctional Anti-icing Hydrogel. <i>Matter</i> , 2020, 2, 723-734.	5.0	150
3	Tuning ice nucleation with counterions on polyelectrolyte brush surfaces. <i>Science Advances</i> , 2016, 2, e1600345.	4.7	134
4	Organogel as durable anti-icing coatings. <i>Science China Materials</i> , 2015, 58, 559-565.	3.5	116
5	Highly efficient solar anti-icing/deicing via a hierarchical structured surface. <i>Materials Horizons</i> , 2020, 7, 2097-2104.	6.4	108
6	Ion-specific ice recrystallization provides a facile approach for the fabrication of porous materials. <i>Nature Communications</i> , 2017, 8, 15154.	5.8	71
7	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
8	Heterogeneous ice nucleation correlates with bulk-like interfacial water. <i>Science Advances</i> , 2019, 5, eaat9825.	4.7	60
9	Competing Effects between Condensation and Self-Removal of Water Droplets Determine Antifrosting Performance of Superhydrophobic Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7805-7814.	4.0	52
10	All-Day Anti-Icing/Deicing Film Based on Combined Photo-Electro-Thermal Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44948-44955.	4.0	46
11	A Freezing-Induced Turn-On Imaging Modality for Real-Time Monitoring of Cancer Cells in Cryosurgery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3834-3837.	7.2	44
12	Control of Ice Propagation by Using Polyelectrolyte Multilayer Coatings. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11436-11439.	7.2	41
13	Spreading fully at the ice-water interface is required for high ice recrystallization inhibition activity. <i>Science China Chemistry</i> , 2019, 62, 909-915.	4.2	39
14	Ion-specific ice propagation behavior on polyelectrolyte brush surfaces. <i>RSC Advances</i> , 2017, 7, 840-844.	1.7	34
15	Inhibition of Heterogeneous Ice Nucleation by Bioinspired Coatings of Polyampholytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30092-30099.	4.0	34
16	Inhibiting Condensation Freezing on Patterned Polyelectrolyte Coatings. <i>ACS Nano</i> , 2020, 14, 5000-5007.	7.3	32
17	Rationally designed surface microstructural features for enhanced droplet jumping and anti-frosting performance. <i>Soft Matter</i> , 2020, 16, 4462-4476.	1.2	30
18	Effective Morphology Control in an Immiscible Crystalline/Crystalline Blend by Artificially Selected Viscoelastic Phase Separation Pathways. <i>Macromolecules</i> , 2014, 47, 1741-1748.	2.2	28

#	ARTICLE	IF	CITATIONS
19	Bioinspired solar anti-icing/de-icing surfaces based on phase-change materials. <i>Science China Materials</i> , 2022, 65, 1369-1376.	3.5	25
20	Cellulose-Based Conductive Films with Superior Joule Heating Performance, Electromagnetic Shielding Efficiency, and High Stability by In Situ Welding to Construct a Segregated MWCNT Conductive Network. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 1773-1785.	1.8	22
21	Few-layered mesoporous graphene for high-performance toluene adsorption and regeneration. <i>Environmental Science: Nano</i> , 2019, 6, 3113-3122.	2.2	21
22	Bioinspired Cryoprotectants of Glucose-Based Carbon Dots. <i>ACS Applied Bio Materials</i> , 2020, 3, 3785-3791.	2.3	21
23	Tuning Ice Nucleation and Propagation with Counterions on Multilayer Hydrogels. <i>Langmuir</i> , 2018, 34, 11986-11991.	1.6	17
24	Ultrastretchable Polyaniline-Based Conductive Organogel with High Strain Sensitivity. , 2021, 3, 1477-1483.		16
25	Transparent, Photothermal, and Icephobic Surfaces via Layer-by-Layer Assembly. <i>Advanced Science</i> , 2022, 9, e2105986.	5.6	14
26	Scanning Electrochemical Photometric Sensors for Label-Free Single-Cell Imaging and Quantitative Absorption Analysis. <i>Analytical Chemistry</i> , 2020, 92, 9739-9744.	3.2	12
27	Recrystallized ice-templated electroless plating for fabricating flexible transparent copper meshes. <i>RSC Advances</i> , 2020, 10, 9894-9901.	1.7	10
28	Ion-Specific Effects on the Growth of Single Ice Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8726-8731.	2.1	10
29	Bioinspired Crowding Inhibits Explosive Ice Growth in Antifreeze Protein Solutions. <i>Biomacromolecules</i> , 2021, 22, 2614-2624.	2.6	9
30	Copolymerization of propylene with 1-octene catalyzed by $MgCl_2/TiCl_4$ /diether catalyst. <i>Polymer International</i> , 2011, 60, 1167-1172.	1.6	7
31	A Freezing-Induced Turn-On Imaging Modality for Real-Time Monitoring of Cancer Cells in Cryosurgery. <i>Angewandte Chemie</i> , 2019, 131, 3874-3877.	1.6	7
32	Anti-icing strategies are on the way. <i>Innovation(China)</i> , 2022, 3, 100278.	5.2	3
33	Control of Ice Propagation by Using Polyelectrolyte Multilayer Coatings. <i>Angewandte Chemie</i> , 2017, 129, 11594-11597.	1.6	1