

# Haifeng Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

927  
citations

516215

16  
h-index

580395

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti/de-icing performance of the one-step electrodeposited superhydrophobic surfaces: Role of surface polarity regulated by hydrocarbon radical length. <i>Chemical Engineering Journal</i> , 2022, 431, 133276.	6.6	31
2	Patterning Configuration of Surface Hydrophilicity by Graphene Nanosheet towards the Inhibition of Ice Nucleation and Growth. <i>Coatings</i> , 2022, 12, 52.	1.2	1
3	Rationally Regulating the Mechanical Performance of Porous PDMS Coatings for the Enhanced Icephobicity toward Large-Scale Ice. <i>Langmuir</i> , 2022, 38, 937-944.	1.6	12
4	Superhydrophobic F-SiO <sub>2</sub> @PDMS composite coatings prepared by a two-step spraying method for the interface erosion mechanism and anti-corrosive applications. <i>Chemical Engineering Journal</i> , 2021, 413, 127455.	6.6	68
5	Green Synthesis of Mechanical Robust Superhydrophobic CNT@PU Coatings with High Flexibility for Extensive Applications. <i>Journal of Bionic Engineering</i> , 2021, 18, 40-54.	2.7	4
6	Multi-type nanoparticles in superhydrophobic PU-based coatings towards self-cleaning, self-healing and mechanochemical durability. <i>Progress in Organic Coatings</i> , 2021, 159, 106451.	1.9	10
7	Anti-icing performance of the superhydrophobic surface with micro-cubic array structures fabricated by plasma etching. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124180.	2.3	73
8	Selective nucleation of ice crystals depending on the inclination angle of nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1168-1173.	1.3	6
9	Understanding the Solid-Ice Interface Mechanism on the Hydrophobic Nano-Pillar Structure Epoxy Surface for Reducing Ice Adhesion. <i>Coatings</i> , 2020, 10, 1043.	1.2	4
10	Facilely fabricating superhydrophobic coated-mesh materials for effective oil-water separation: Effect of mesh size towards various organic liquids. <i>Journal of Materials Science and Technology</i> , 2020, 51, 151-160.	5.6	27
11	Spraying Preparation of Eco-Friendly Superhydrophobic Coatings with Ultralow Water Adhesion for Effective Anticorrosion and Antipollution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25484-25493.	4.0	61
12	Droplet Directional Movement on the Homogeneously Structured Superhydrophobic Surface with the Gradient Non-Wettability. <i>Langmuir</i> , 2020, 36, 880-888.	1.6	19
13	Facilely Fabricating Superhydrophobic Resin-based Coatings with Lower Water Freezing Temperature and Ice Adhesion for Anti-icing Application. <i>Journal of Bionic Engineering</i> , 2019, 16, 794-805.	2.7	19
14	Statistically understanding the roles of nanostructure features in interfacial ice nucleation for enhancing icing delay performance. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19785-19794.	1.3	14
15	ZnO Porous Nanosheets with Partial Surface Modification for Enhanced Charges Separation and High Photocatalytic Activity Under Solar Irradiation. <i>Nanoscale Research Letters</i> , 2019, 14, 151.	3.1	4
16	Understanding the frosting and defrosting mechanism on the superhydrophobic surfaces with hierarchical structures for enhancing anti-frosting performance. <i>Applied Thermal Engineering</i> , 2019, 156, 111-118.	3.0	46
17	Spraying Fabrication of Durable and Transparent Coatings for Anti-Icing Application: Dynamic Water Repellency, Icing Delay, and Ice Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3590-3598.	4.0	157
18	Rationally Designed Nanostructure Features on Superhydrophobic Surfaces for Enhancing Self-Propelling Dynamics of Condensed Droplets. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2702-2708.	3.2	30

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19	Rational Fabrication of Superhydrophobic Nanocone Surface for Dynamic Water Repellency and Anti-icing Potential. <i>Journal of Bionic Engineering</i> , 2019, 16, 27-37.	2.7	30
20	Bioinspired Fabrication of Hierarchical-Structured Superhydrophobic Surfaces To Understand Droplet Bouncing Dynamics for Enhancing Water Repellency. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7312-7320.	1.5	29
21	Facile spraying fabrication of highly flexible and mechanically robust superhydrophobic F-SiO <sub>2</sub> @PDMS coatings for self-cleaning and drag-reduction applications. <i>New Journal of Chemistry</i> , 2018, 42, 18208-18216.	1.4	58
22	Recent Progress in Preparation and Anti-Icing Applications of Superhydrophobic Coatings. <i>Coatings</i> , 2018, 8, 208.	1.2	118
23	Rational Design of the Nanostructure Features on Superhydrophobic Surfaces for Enhanced Dynamic Water Repellency. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9958-9965.	3.2	15
24	A combination structure of microblock and nanohair fabricated by chemical etching for excellent water repellency and icephobicity. <i>Applied Surface Science</i> , 2018, 455, 883-890.	3.1	48
25	ZnO-embedded BiOI hybrid nanoflakes: Synthesis, characterization, and improved photocatalytic properties. <i>Materials and Design</i> , 2017, 122, 90-101.	3.3	43