

Design of anti-icing surfaces: smooth, textured or slippery

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Anti-Icing Superhydrophobic Surfaces: Controlling Entropic Molecular Interactions to Design Novel Icephobic Concrete. <i>Entropy</i> , 2016, 18, 132.	1.1	79
2	An IR thermal imaging method to investigate spreading process of ethanol solution droplets on carbon fiber mats. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	2
3	Improvement of lubricant-infused surfaces for anti-icing applications. <i>Surface Innovations</i> , 2016, 4, 214-217.	1.4	44
4	Fabrication of non-modified metallic superhydrophobic surfaces with temperature insensitivity and self-healing ability. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	8
5	How a Surface Nanodroplet Sits on the Rim of a Microcap. <i>Langmuir</i> , 2016, 32, 5744-5754.	1.6	8
6	Controllable Broadband Optical Transparency and Wettability Switching of Temperature-Activated Solid/Liquid-Infused Nanofibrous Membranes. <i>ACS Nano</i> , 2016, 10, 9387-9396.	7.3	121
7	Air Cushion Convection Inhibiting Icing of Self-Cleaning Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29169-29178.	4.0	53
8	Hybrid MWCNTs membrane with well-tunable wettability. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 173-182.	5.0	7
9	A superrepellent coating with dynamic fluorine chains for frosting suppression: effects of polarity, coalescence and ice nucleation free energy barrier. <i>RSC Advances</i> , 2016, 6, 92197-92205.	1.7	16
10	Droplet impact on superhydrophobic surfaces: A review of recent developments. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 42, 1-14.	2.9	265
11	Bioinspired Composite Materials: Applications in Diagnostics and Therapeutics. <i>Journal of Molecular and Engineering Materials</i> , 2016, 04, 1640004.	0.9	31
12	SiO ₂ -g-PS/fluoroalkylsilane composites for superhydrophobic and highly oleophobic coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 26-35.	2.3	13
13	Thermomechanical Mechanisms of Reducing Ice Adhesion on Superhydrophobic Surfaces. <i>Langmuir</i> , 2016, 32, 9664-9675.	1.6	23
14	Long-Term Repellency of Liquids by Superoleophobic Surfaces. <i>Physical Review Letters</i> , 2016, 117, 046102.	2.9	18
15	Strategies for anti-icing: low surface energy or liquid-infused?. <i>RSC Advances</i> , 2016, 6, 70251-70260.	1.7	118
16	Durable gels with ultra-low adhesion to ice. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18253-18258.	5.2	158
17	Infused polymers for cell sheet release. <i>Scientific Reports</i> , 2016, 6, 26109.	1.6	28
18	Oil-Infused Superhydrophobic Silicone Material for Low Ice Adhesion with Long-Term Infusion Stability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32050-32059.	4.0	134

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19	Design and Fabrication of the Lyophobic Slippery Surface and Its Application in Anti-Icing. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11054-11059.	1.5	84
20	A Robust Epoxy Resins @ Stearic Acid-Mg(OH) ₂ Micronanosheet Superhydrophobic Omnipotent Protective Coating for Real-Life Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16511-16520.	4.0	154
21	Crystals creeping out of cracks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 797-799.	3.3	15
22	Fabrication of a superhydrophobic surface with a hierarchical nanoflake "micropit" structure and its anti-icing properties. <i>RSC Advances</i> , 2017, 7, 9981-9988.	1.7	29
23	Ion-specific ice propagation behavior on polyelectrolyte brush surfaces. <i>RSC Advances</i> , 2017, 7, 840-844.	1.7	34
24	Hot embossed micro-textured thin superhydrophobic Teflon FEP sheets for low ice adhesion. <i>Surface and Coatings Technology</i> , 2017, 313, 17-23.	2.2	31
25	Sprayable superhydrophobic nano-chains coating with continuous self-jumping of dew and melting frost. <i>Scientific Reports</i> , 2017, 7, 40300.	1.6	44
26	Delaying Frost Formation by Controlling Surface Chemistry of Carbon Nanotube-Coated Steel Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6512-6519.	4.0	40
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28	Robust Slippery Coating with Superior Corrosion Resistance and Anti-Icing Performance for AZ31B Mg Alloy Protection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11247-11257.	4.0	225
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30	Control of Ice Formation. <i>ACS Nano</i> , 2017, 11, 2665-2674.	7.3	49
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34	Slippery Liquid-Immobilized Coating Films Using in Situ Oxidation "Reduction Reactions of Metal Ions in Polyelectrolyte Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15122-15129.	4.0	22
35	Roles of Surface Energy and Temperature in Heterogeneous Ice Nucleation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11552-11559.	1.5	23
36	Durable Anti-Icing Coatings Based on Self-Sustainable Lubricating Layer. <i>ACS Omega</i> , 2017, 2, 2047-2054.	1.6	40

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38	Nano-striped chemically anisotropic surfaces have near isotropic wettability. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	18
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85	Bio-Inspired Polymeric Structures with Special Wettability and Their Applications: An Overview. Polymers, 2017, 9, 725.	2.0	44
86	Fluid-structure interaction with the entropic lattice Boltzmann method. Physical Review E, 2018, 97, 023305.	0.8	26
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153	Micro-patterned anti-icing coatings with dual hydrophobic/hydrophilic properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19353-19357.	5.2	30
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