

# Design of Ice-free Nanostructured Surfaces Based on Re Droplets

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Frost formation and ice adhesion on superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	616
3	Exploiting Topographical Texture To Impart Icephobicity. <i>ACS Nano</i> , 2010, 4, 7048-7052.	7.3	355
4	Multi-level micro-/nanostructures of butterfly wings adapt at low temperature to water repellency. <i>Soft Matter</i> , 2011, 7, 10569.	1.2	47
5	Advanced Studies of Water Evaporation Kinetics over Teflon-Coated Tungsten Nanorod Surfaces with Variable Hydrophobicity and Morphology. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13804-13812.	1.5	20
6	Design and Fabrication of Teflon-Coated Tungsten Nanorods for Tunable Hydrophobicity. <i>Langmuir</i> , 2011, 27, 4661-4668.	1.6	34
7	Predictive Model for Ice Formation on Superhydrophobic Surfaces. <i>Langmuir</i> , 2011, 27, 14143-14150.	1.6	175
8	Exceptional Superhydrophobicity and Low Velocity Impact Icephobicity of Acetone-Functionalized Carbon Nanotube Films. <i>Langmuir</i> , 2011, 27, 9936-9943.	1.6	96
9	Fabrication of Super-Oil-Repellent Dual Pillar Surfaces with Optimized Pillar Intervals. <i>Langmuir</i> , 2011, 27, 11752-11756.	1.6	76
10	Impact of Picoliter Droplets on Superhydrophobic Surfaces with Ultralow Spreading Ratios. <i>Langmuir</i> , 2011, 27, 13897-13903.	1.6	31
11	A Self-Templated Etching Route to Surface-Rough Silica Nanoparticles for Superhydrophobic Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1269-1276.	4.0	80
12	Thermal stable superhydrophobic polyphenylsilsesquioxane/nanosilica composite coatings. <i>Applied Surface Science</i> , 2011, 258, 1572-1580.	3.1	24
13	Hydrogel-actuated integrated responsive systems (HAIRS): Moving towards adaptive materials. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 236-245.	5.6	66
14	Fabrication of a transparent superamphiphobic coating with improved stability. <i>Soft Matter</i> , 2011, 7, 6435.	1.2	137
15	One-step vapour-phase formation of patternable, electrically conductive, superamphiphobic coatings on fibrous materials. <i>Soft Matter</i> , 2011, 7, 8158.	1.2	84
16	In-Silico Environment for Designing Anti-icing Surfaces. , 2011, , .		1
17	Biologically inspired hairy structures for superhydrophobicity. <i>Materials Science and Engineering Reports</i> , 2011, 72, 189-201.	14.8	65
18	Methodology for Imaging Nano-to-Microscale Water Condensation Dynamics on Complex Nanostructures. <i>ACS Nano</i> , 2011, 5, 5962-5968.	7.3	84
19	Lotus Effect and Self-Cleaning. <i>Springer Series in Materials Science</i> , 2011, , 319-341.	0.4	8

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20	Surface Nanoengineering Inspired by Evolution. <i>BioNanoScience</i> , 2011, 1, 63-77.	1.5	14
21	The superhydrophobicity of polymer surfaces: Recent developments. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1203-1217.	2.4	151
22	Nanograsped Micropyramidal Architectures for Continuous Dropwise Condensation. <i>Advanced Functional Materials</i> , 2011, 21, 4617-4623.	7.8	500
23	Deterministic Nanotexturing by Directional Photofluidization Lithography. <i>Advanced Materials</i> , 2011, 23, 3244-3250.	11.1	37
25	Durable, Self-Healing Superhydrophobic and Superoleophobic Surfaces from Fluorinated-Decyl Polyhedral Oligomeric Silsesquioxane and Hydrolyzed Fluorinated Alkyl Silane. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11433-11436.	7.2	451
26	Anti-icing performance of superhydrophobic surfaces. <i>Applied Surface Science</i> , 2011, 257, 6264-6269.	3.1	754
27	Facile creation of bio-inspired superhydrophobic Ce-based metallic glass surfaces. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	47
28	Anti-Icing Nanoparticle/Polymer Composite Coatings. <i>Key Engineering Materials</i> , 2012, 501, 22-26.	0.4	1
29	A Comparison of VOF Simulations with Experimental Data for Droplet Impact on a Dry Surface. , 2012, , .		0
30	Transparent and superhydrophobic Ta <sub>2</sub> O <sub>5</sub> nanostructured thin films. <i>Optical Materials Express</i> , 2012, 2, 214.	1.6	18
31	Temperature dependent droplet impact dynamics on flat and textured surfaces. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	90
32	Superhydrophobic surfaces cannot reduce ice adhesion. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	282
33	Biotemplated hierarchical surfaces and the role of dual length scales on the repellency of impacting droplets. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	87
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40	Freezing of a Liquid Marble. <i>Langmuir</i> , 2012, 28, 10324-10328.	1.6	32
41	Stabilization of Leidenfrost vapour layer by textured superhydrophobic surfaces. <i>Nature</i> , 2012, 489, 274-277.	13.7	467
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43	Facile fabrication of superhydrophobic nanostructures on aluminum foils with controlled-condensation and delayed-icing effects. <i>Applied Surface Science</i> , 2012, 258, 8253-8257.	3.1	91
44	Superhydrophobic Hierarchical Honeycomb Surfaces. <i>Langmuir</i> , 2012, 28, 13712-13719.	1.6	74
45	Mechanism of supercooled droplet freezing on surfaces. <i>Nature Communications</i> , 2012, 3, 615.	5.8	527
46	Recent developments in superhydrophobic surfaces with unique structural and functional properties. <i>Soft Matter</i> , 2012, 8, 11217.	1.2	342
47	Condensation mode determines the freezing of condensed water on solid surfaces. <i>Soft Matter</i> , 2012, 8, 8285.	1.2	64
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56	Bio-Inspired Self-Cleaning Surfaces. <i>Annual Review of Materials Research</i> , 2012, 42, 231-263.	4.3	427

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58	Induced Detachment of Coalescing Droplets on Superhydrophobic Surfaces. <i>Langmuir</i> , 2012, 28, 1290-1303.	1.6	61
59	Fluoroalkyl Silane Modified Silicone Rubber/Nanoparticle Composite: A Super Durable, Robust Superhydrophobic Fabric Coating. <i>Advanced Materials</i> , 2012, 24, 2409-2412.	11.1	560
60	Liquid-Infused Nanostructured Surfaces with Extreme Anti-Ice and Anti-Frost Performance. <i>ACS Nano</i> , 2012, 6, 6569-6577.	7.3	1,118
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66	Self-Assembling, Bioinspired Wax Crystalline Surfaces with Time-Dependent Wettability. <i>Advanced Functional Materials</i> , 2012, 22, 745-750.	7.8	40
67	Protein-Protein Nanoimprinting of Silk Fibroin Films. <i>Advanced Materials</i> , 2013, 25, 2409-2414.	11.1	78
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69	Water Drops Dancing on Ice: How Sublimation Leads to Drop Rebound. <i>Physical Review Letters</i> , 2013, 111, 014501.	2.9	97
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73	The challenge of removing snow downfall on photovoltaic solar cell roofs in order to maximize solar energy efficiency—Research opportunities for the future. <i>Energy and Buildings</i> , 2013, 67, 334-351.	3.1	83
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88	Mechanism of Frost Formation on Lubricant-Impregnated Surfaces. <i>Langmuir</i> , 2013, 29, 5230-5238.	1.6	322
89	Temperature-dependent bouncing of super-cooled water on teflon-coated superhydrophobic tungsten nanorods. <i>Applied Surface Science</i> , 2013, 279, 76-84.	3.1	32
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100	Ice Adhesion on Lubricant-Impregnated Textured Surfaces. Langmuir, 2013, 29, 13414-13418.	1.6	298
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130	Fly-Inspired Superhydrophobic Anti-Fogging Inorganic Nanostructures. <i>Small</i> , 2014, 10, 3001-3006.	5.2	290
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140	A novel superhydrophobic hybrid nanocomposite material prepared by surface-initiated AGET ATRP and its anti-icing properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9390-9399.	5.2	173
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161	Pancake bouncing on superhydrophobic surfaces. <i>Nature Physics</i> , 2014, 10, 515-519.	6.5	748
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