

# Nan Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

1,324  
citations

516710

16  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanically Robust Superhydrophobic Steel Surface with Anti-Icing, UV-Durability, and Corrosion Resistance Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6260-6272.	8.0	498
2	Superhydrophobic membranes on metal substrate and their corrosion protection in different corrosive media. <i>Applied Surface Science</i> , 2014, 305, 603-608.	6.1	97
3	Designing durable and flexible superhydrophobic coatings and its application in oil purification. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4107-4116.	10.3	94
4	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.	3.1	84
5	Fabrication of robust and scalable superhydrophobic surfaces and investigation of their anti-icing properties. <i>Materials and Design</i> , 2018, 156, 320-328.	7.0	74
6	Mechanically robust superhydrophobic coating for aeronautical composite against ice accretion and ice adhesion. <i>Composites Part B: Engineering</i> , 2019, 176, 107267.	12.0	67
7	Scalable superhydrophobic coating with controllable wettability and investigations of its drag reduction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 290-295.	4.7	62
8	Robust superhydrophobic coating and the anti-icing properties of its lubricants-infused-composite surface under condensing condition. <i>New Journal of Chemistry</i> , 2017, 41, 1846-1853.	2.8	57
9	Superhydrophobic surface on steel substrate and its anti-icing property in condensing conditions. <i>Applied Surface Science</i> , 2015, 355, 226-232.	6.1	48
10	Superhydrophobic Surface with Stepwise Multilayered Micro- and Nanostructure and an Investigation of Its Corrosion Resistance. <i>Langmuir</i> , 2019, 35, 15078-15085.	3.5	41
11	Surface modification of coordination polymers to enable the construction of CoP/N,P-codoped carbon nanowires towards high-performance lithium storage. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 503-512.	9.4	39
12	Comparison of micro-/nano-hierarchical and nano-scale roughness of silica membranes in terms of wetting behavior and transparency. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 8-14.	4.7	31
13	Hierarchical Fe <sub>3</sub> O <sub>4</sub> @C nanofoams derived from metal-organic frameworks for high-performance lithium storage. <i>Rare Metals</i> , 2020, 39, 1072-1081.	7.1	31
14	Laser textured dimple-patterns to govern the surface wettability of superhydrophobic aluminum plates. <i>Journal of Materials Science and Technology</i> , 2021, 89, 59-67.	10.7	30
15	Fabrication of superhydrophobic and lyophobic slippery surface on steel substrate. <i>Applied Surface Science</i> , 2016, 387, 1219-1224.	6.1	17
16	Robust superhydrophobic surface with wrinkle-like structures on AZ31 alloy that repels viscous oil and investigations of the anti-icing property. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 594, 124655.	4.7	17
17	Designing Long-Term Cycle Life for a Lithium-Air Battery with a Modified Gas Diffusion Layer in Terms of the Moisture Intrusion and Electrolyte Volatilization. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24787-24795.	3.1	13
18	Lyophobic slippery surfaces on smooth/hierarchical structured substrates and investigations of their dynamic liquid repellency. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15705-15711.	2.8	10

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19	Superhydrophobic surfaces with flake-like structures and lubricant-infused composite surfaces to enhance anti-icing ability. <i>Chemical Physics Letters</i> , 2020, 758, 137903.	2.6	10
20	Nano-grinding derived high-performance $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Co}_{0.13}\text{Mn}_{0.54}\text{O}_2$ cathode material: from kilogram-scale synthesis to its pouch cell. <i>Ionics</i> , 2021, 27, 491-506.	2.4	2
21	Ultrafine molybdenum oxycarbide nanodots encapsulated in N,P co-doped carbon nanofibers as an advanced anode material for lithium-ion batteries. <i>Nanotechnology</i> , 2021, 32, 295601.	2.6	2