

Xuefeng Gao

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

8,217
citations

218381

26
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276539

41
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46
all docs

46
docs citations

46
times ranked

7296
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-repellent legs of water striders. <i>Nature</i> , 2004, 432, 36-36.	13.7	2,286
2	Bioinspired Surfaces with Special Wettability. <i>Accounts of Chemical Research</i> , 2005, 38, 644-652.	7.6	1,921
3	Directional adhesion of superhydrophobic butterfly wings. <i>Soft Matter</i> , 2007, 3, 178-182.	1.2	1,020
4	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. <i>Advanced Materials</i> , 2009, 21, 3799-3803.	11.1	439
5	Application of Superhydrophobic Surface with High Adhesive Force in No Lost Transport of Superparamagnetic Microdroplet. <i>Journal of the American Chemical Society</i> , 2007, 129, 1478-1479.	6.6	426
6	Superior Water Repellency of Water Strider Legs with Hierarchical Structures: Experiments and Analysis. <i>Langmuir</i> , 2007, 23, 4892-4896.	1.6	334
7	Bioinspired Ribbed Nanoneedles with Robust Superhydrophobicity. <i>Advanced Functional Materials</i> , 2010, 20, 656-662.	7.8	182
8	Efficient Self-Propelling of Small-Scale Condensed Microdrops by Closely Packed ZnO Nanoneedles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2084-2088.	2.1	139
9	Clustered Ribbed-Nanoneedle Structured Copper Surfaces with High-Efficiency Dropwise Condensation Heat Transfer Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10660-10665.	4.0	139
10	Energy-Effective Frost-Free Coatings Based on Superhydrophobic Aligned Nanocones. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8976-8980.	4.0	124
11	Effects of Rugged Nanoprotrusions on the Surface Hydrophobicity and Water Adhesion of Anisotropic Micropatterns. <i>Langmuir</i> , 2007, 23, 4886-4891.	1.6	113
12	Fabrication of Condensate Microdrop Self-Propelling Porous Films of Cerium Oxide Nanoparticles on Copper Surfaces. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4876-4879.	7.2	106
13	Recent Progress in Bionic Condensate Microdrop Self-Propelling Surfaces. <i>Advanced Materials</i> , 2017, 29, 1703002.	11.1	98
14	How does the leaf margin make the lotus surface dry as the lotus leaf floats on water?. <i>Soft Matter</i> , 2008, 4, 2232.	1.2	80
15	Copper-Based Ultrathin Nickel Nanocone Films with High-Efficiency Dropwise Condensation Heat Transfer Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11719-11723.	4.0	74
16	Bio-Inspired High-Performance Antireflection and Antifogging Polymer Films. <i>Small</i> , 2014, 10, 2578-2582.	5.2	72
17	Bio-Inspired Superhydrophobic Closely Packed Aligned Nanoneedle Architectures for Enhancing Condensation Heat Transfer. <i>Advanced Functional Materials</i> , 2018, 28, 1800634.	7.8	68
18	Condensate Microdrop Self-Propelling Aluminum Surfaces Based on Controllable Fabrication of Alumina Rod-Capped Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11079-11082.	4.0	55

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19	Facile Method for Modulating the Profiles and Periods of Self-Ordered Three-Dimensional Alumina Taper-Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5678-5683.	4.0	47
20	Water-Assisted Fabrication of Polyaniline Honeycomb Structure Film. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4586-4589.	1.2	46
21	Subcooled-Water Nonstickiness of Condensate Microdrop Self-Propelling Nanosurfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26391-26395.	4.0	42
22	Facile Fabrication of Anodic Alumina Rod-Capped Nanopore Films with Condensate Microdrop Self-Propelling Function. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18206-18210.	4.0	39
23	A Bioinspired, Highly Transparent Surface with Dry-Style Antifogging, Antifrosting, Antifouling, and Moisture Self-Cleaning Properties. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800708.	2.0	38
24	Density Maximization of One-Step Electrodeposited Copper Nanocones and Dropwise Condensation Heat-Transfer Performance Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24512-24520.	4.0	35
25	Fabrication of Biomimetic Polymer Nanocone Films with Condensate Microdrop Self-Removal Function. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500238.	1.9	33
26	In Situ Growth of Densely Packed Single-Crystal Copper Nanocone Structure Films with Condensate Microdrop Self-Removal Function on Copper Surfaces. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600362.	1.9	29
27	Microdrop-Assisted Microdomain Hydrophilicization of Superhydrophobic Surfaces for High-Efficiency Nucleation and Self-Removal of Condensate Microdrops. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7553-7558.	4.0	25
28	Self-ordered hard anodization in malonic acid and its application in tailoring alumina taper-nanopores with continuously tunable periods in the range of 290-490nm. <i>Electrochimica Acta</i> , 2013, 112, 327-332.	2.6	23
29	Anti-vapor-penetration and condensate microdrop self-transport of superhydrophobic oblique nanowire surface under high subcooling. <i>Nano Research</i> , 2021, 14, 1429-1434.	5.8	22
30	High-Efficiency Boiling Heat Transfer Interfaces Composed of Electroplated Copper Nanocone Cores and Low-Thermal-Conductivity Nickel Nanocone Coverings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39902-39909.	4.0	21
31	Copper-based high-efficiency condensation heat transfer interface consisting of superhydrophobic hierarchical microgroove and nanocone structure. <i>Materials Today Physics</i> , 2021, 19, 100407.	2.9	20
32	Tailoring Hexagonally Packed Metal Hollow-Nanocones and Taper-Nanotubes by Template-Induced Preferential Electrodeposition. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10376-10380.	4.0	19
33	Superhydrophilic Composite Structure of Copper Microcavities and Nanocones for Enhancing Boiling Heat Transfer. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000482.	1.9	19
34	Design and Fabrication of a Tip-Like ZnO Nanotube Array Structure with Condensate Microdrop Self-Propelling Function. <i>ChemNanoMat</i> , 2016, 2, 1018-1022.	1.5	15
35	Robust Nonsticky Superhydrophobicity by the Tapering of Aligned ZnO Nanorods. <i>ChemPhysChem</i> , 2014, 15, 858-861.	1.0	13
36	Confined Growth and Controlled Coalescence/Self-Removal of Condensate Microdrops on a Spatially Heterogeneously Patterned Superhydrophilic-Superhydrophobic Surface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29946-29952.	4.0	12

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37	Controlled nanoscale diffusion-limited chemical etching for releasing polystyrene nanocones from recyclable alumina templates. <i>Chemical Communications</i> , 2012, 48, 11322.	2.2	11
38	Facile fabrication of biomimetic films with the microdome and tapered nanonipple hierarchical structure possessing high haze, high transmittance, anti-fouling and moisture self-cleaning functions. <i>Chemical Engineering Journal</i> , 2021, 404, 127101.	6.6	8
39	Bio-inspired inclined nanohair arrays with tunable mechanical properties for effective directional condensed microdroplets self-jumping. <i>Chemical Engineering Journal</i> , 2022, 427, 130887.	6.6	8
40	A numerical study on subcooled flow boiling heat transfer in tubes with various helical angles at underwater vehicles conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 145-161.	2.0	4
41	Ab Initio DFT Simulations of Nanostructures. , 2012, , 11-17.		3
42	AFM, Tapping Mode. , 2012, , 99-99.		2
43	AC Electroosmosis: Basics and Lab-on-a-Chip Applications. , 2012, , 25-30.		1
44	AFM. , 2012, , 83-83.		0