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List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,518
citations

430442

18
h-index

454577

30
g-index

31
all docs

31
docs citations

31
times ranked

2148
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Stretchable Piezoelectric-Pyroelectric Hybrid Nanogenerator. <i>Advanced Materials</i> , 2014, 26, 765-769.	11.1	469
2	Atmosphere-Mediated Superhydrophobicity of Rationally Designed Micro/Nanostructured Surfaces. <i>ACS Nano</i> , 2019, 13, 4160-4173.	7.3	190
3	Jumping-droplet electronics hot-spot cooling. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	91
4	Superhydrophobic Surfaces Made from Naturally Derived Hydrophobic Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11362-11370.	3.2	81
5	Environment-Friendly Antibiofouling Superhydrophobic Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14509-14520.	3.2	75
6	Exploring the Role of Habitat on the Wettability of Cicada Wings. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27173-27184.	4.0	62
7	Thin Film Condensation on Nanostructured Surfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1707000.	7.8	60
8	Electric Field-Based Control and Enhancement of Boiling and Condensation. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017, 21, 102-121.	1.4	52
9	Molecular and Topographical Organization: Influence on Cicada Wing Wettability and Bactericidal Properties. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000112.	1.9	44
10	Fundamental limits of jumping droplet heat transfer. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	35
11	Steady Method for the Analysis of Evaporation Dynamics. <i>Langmuir</i> , 2017, 33, 12007-12015.	1.6	31
12	Delayed Lubricant Depletion of Slippery Liquid Infused Porous Surfaces Using Precision Nanostructures. <i>Langmuir</i> , 2021, 37, 10071-10078.	1.6	31
13	Jumping droplets electronics cooling: Promise versus reality. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	27
14	The apparent surface free energy of rare earth oxides is governed by hydrocarbon adsorption. <i>IScience</i> , 2022, 25, 103691.	1.9	27
15	Ultrascaleable Multifunctional Nanoengineered Copper and Aluminum for Antiadhesion and Bactericidal Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 2726-2737.	2.3	26
16	Composite Structured Surfaces for Durable Dropwise Condensation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119890.	2.5	25
17	Lubricant-Infused Surfaces for Low-Surface-Tension Fluids: The Extent of Lubricant Miscibility. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23121-23133.	4.0	22
18	Enhanced Liquid Transport on a Highly Scalable, Cost-Effective, and Flexible 3D Topological Liquid Capillary Diode. <i>Advanced Functional Materials</i> , 2021, 31, 2011288.	7.8	20

#	ARTICLE	IF	CITATIONS
19	Gas and particle flow characteristics in the gas reversing chamber of a syngas cooler for a 300MW IGCC process. <i>Applied Thermal Engineering</i> , 2014, 70, 388-396.	3.0	18
20	Dissolvable Template Nanoimprint Lithography: A Facile and Versatile Nanoscale Replication Technique. <i>Nano Letters</i> , 2020, 20, 6989-6997.	4.5	18
21	Self-assembled liquid bridge confined boiling on nanoengineered surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 1154-1164.	2.5	17
22	Active hot spot cooling of GaN transistors with electric field enhanced jumping droplet condensation. , 2017, , .		16
23	Spatially resolved chemical analysis of cicada wings using laser-ablation electrospray ionization (LAESI) imaging mass spectrometry (IMS). <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1911-1921.	1.9	15
24	Effects of environmental aging on physical properties of aromatic thermosetting copolyester matrix neat and nanocomposite foams. <i>Polymer Degradation and Stability</i> , 2018, 147, 49-56.	2.7	14
25	Analysis of cicada wing surface constituents by comprehensive multidimensional gas chromatography for species differentiation. <i>Microchemical Journal</i> , 2020, 158, 105089.	2.3	12
26	Effects of Design/Operating Parameters and Physical Properties on Slag Thickness and Heat Transfer during Coal Gasification. <i>Energies</i> , 2015, 8, 3370-3385.	1.6	10
27	Spacer-Defined Intrinsic Multiple Patterning. <i>ACS Nano</i> , 2020, 14, 12091-12100.	7.3	10
28	Modeling and analysis of a syngas cooler with concentric evaporator channels in a coal gasification process. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 2136-2144.	1.2	9
29	Cicada-inspired self-cleaning superhydrophobic surfaces. <i>Journal of Heat Transfer</i> , 2019, 141, .	1.2	7
30	Nanogenerators: Highly Stretchable Piezoelectric-Pyroelectric Hybrid Nanogenerator (<i>Adv. Mater.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	11.1	8
31	Effect of Operating Pressure on the Heat Transfer and Particle Flow Characteristics in the Syngas Quench System of an IGCC Process. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2014, 25, 97-104.	0.1	1