

Youngsuk Nam

List of Publications by Year in descending order

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61
papers

4,234
citations

186209

28
h-index

128225

60
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61
all docs

61
docs citations

61
times ranked

3937
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic/inorganic hybrid cerium oxide-based superhydrophobic surface with enhanced weather resistance and self-recovery. <i>Progress in Organic Coatings</i> , 2022, 170, 106998.	1.9	4
2	Influence of early drop bouncing on heat transfer during drop impact. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106235.	2.9	3
3	Reducing surface fouling against emulsified oils using CuO nanostructured surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 125991.	2.3	2
4	A bio-inspired, low pressure drop liquid cooling system for high-power IGBT modules for EV/HEV applications. <i>International Journal of Thermal Sciences</i> , 2021, 161, 106708.	2.6	14
5	Modeling and optimization of hydrophobic surfaces for a two-phase closed thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120680.	2.5	7
6	Gallium-based liquid metal alloy incorporating oxide-free copper nanoparticle clusters for high-performance thermal interface materials. <i>International Journal of Heat and Mass Transfer</i> , 2021, 170, 121012.	2.5	44
7	High-Temperature Carbonized Ceria Thermophotovoltaic Emitter beyond Tungsten. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42724-42731.	4.0	3
8	Enhancing heat transfer performance of a two-phase closed thermosyphon using a polymer-coated hydrophobic condenser. <i>Applied Thermal Engineering</i> , 2021, 196, 117350.	3.0	6
9	Effects and limitations of superhydrophobic surfaces on the heat transfer performance of a two-phase closed thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2021, 176, 121446.	2.5	7
10	Dropwise condensation of acetone and ethanol for a high-performance lubricant-impregnated thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121871.	2.5	6
11	Passive Anti-Flooding Superhydrophobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4068-4080.	4.0	37
12	Switching of heating and cooling modes using thermal radiation films. <i>Current Applied Physics</i> , 2020, 20, 1073-1079.	1.1	6
13	Endowing antifouling properties on metal substrata by creating an artificial barrier layer based on scalable metal oxide nanostructures. <i>Biofouling</i> , 2020, 36, 766-782.	0.8	4
14	Water penetration dynamics through a Janus mesh during drop impact. <i>Soft Matter</i> , 2020, 16, 6072-6081.	1.2	11
15	Superhydrophilic catenoidal aluminum micropost evaporator wicks. <i>International Journal of Heat and Mass Transfer</i> , 2020, 158, 120011.	2.5	15
16	Brushed lubricant-impregnated surfaces (BLIS) for long-lasting high condensation heat transfer. <i>Scientific Reports</i> , 2020, 10, 2959.	1.6	27
17	Liquid cooling module incorporating a metal foam and fin hybrid structure for high power insulated gate bipolar transistors (IGBTs). <i>Applied Thermal Engineering</i> , 2020, 173, 115230.	3.0	14
18	Contact time on curved superhydrophobic surfaces. <i>Physical Review E</i> , 2020, 101, 043108.	0.8	32

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19	High-efficiency power generation in hyper-saline environment using conventional nanoporous membrane. <i>Electrochimica Acta</i> , 2019, 319, 366-374.	2.6	10
20	Compact Liquid Cooling Module Incorporating Metal Foam and Fin Hybrid Structures for High Power IGBTs. , 2019, , .		1
21	Optical Tunneling Mediated Sub-Skin-Depth High Emissivity Tungsten Radiators. <i>Nano Letters</i> , 2019, 19, 7093-7099.	4.5	12
22	Characteristics analysis of the developed surface modification technologies to improve the anti-corrosion performances for offshore equipments. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 3971-3979.	0.7	15
23	Continuous scavenging of broadband vibrations via omnipotent tandem triboelectric nanogenerators with cascade impact structure. <i>Scientific Reports</i> , 2019, 9, 8223.	1.6	47
24	Performance Analysis of Gravity-Driven Oil-Water Separation Using Membranes with Special Wettability. <i>Langmuir</i> , 2019, 35, 7769-7782.	1.6	33
25	Influence of lubricant-mediated droplet coalescence on frosting delay on lubricant impregnated surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 217-228.	2.5	19
26	Corrosion resistance of water repellent aluminum surfaces with various wetting morphologies. <i>Applied Surface Science</i> , 2019, 467-468, 1046-1052.	3.1	29
27	Anisotropic drop spreading on superhydrophobic grates during drop impact. <i>Soft Matter</i> , 2018, 14, 3760-3767.	1.2	12
28	Effect of geometrical parameters on rebound of impacting droplets on leaky superhydrophobic meshes. <i>Soft Matter</i> , 2018, 14, 1571-1580.	1.2	40
29	Mesoporous Highly-Deformable Composite Polymer for a Gapless Triboelectric Nanogenerator via a One-Step Metal Oxidation Process. <i>Micromachines</i> , 2018, 9, 656.	1.4	25
30	Pt/Alumina Hyperbolic Metafilms with High-Temperature Stability, Wide Wavelength Tunability, and Omnidirectional Absorption. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800287.	0.8	9
31	Electron blocking layer-based interfacial design for highly-enhanced triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 50, 9-15.	8.2	105
32	Condensation Heat-Transfer Performance of Thermally Stable Superhydrophobic Cerium-Oxide Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31765-31776.	4.0	24
33	A radioisotope thermophotovoltaic converter with nanophotonic emitters and filters. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1115-1125.	2.5	28
34	Enhanced heat transfer using metal foam liquid supply layers for micro heat spreaders. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 2338-2345.	2.5	37
35	Absorption mechanism and performance characterization of CuO nanostructured absorbers. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 270-279.	3.0	42
36	Water Penetration through a Superhydrophobic Mesh During a Drop Impact. <i>Physical Review Letters</i> , 2017, 118, 014501.	2.9	79

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37	Dynamic heat transfer analysis of condensed droplets growing and coalescing on water repellent surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 934-943.	2.5	21
38	Scalable superhydrophobic flexible plasmonic poly(tetrafluoroethylene-co-perfluorovinyl ether) films via ion-beam irradiation and metal deposition. <i>Materials Express</i> , 2017, 7, 319-323.	0.2	1
39	Single-Sided Digital Microfluidic (SDMF) Devices for Effective Coolant Delivery and Enhanced Two-Phase Cooling. <i>Micromachines</i> , 2017, 8, 3.	1.4	26
40	A superhydrophilic nitinol shape memory alloy with enhanced anti-biofouling and anti-corrosion properties. <i>Biofouling</i> , 2016, 32, 535-545.	0.8	9
41	The effects of surface wettability on the fog and dew moisture harvesting performance on tubular surfaces. <i>Scientific Reports</i> , 2016, 6, 24276.	1.6	155
42	Condensation behaviors and resulting heat transfer performance of nano-engineered copper surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 286-292.	2.5	45
43	Two types of Cassie-to-Wenzel wetting transitions on superhydrophobic surfaces during drop impact. <i>Soft Matter</i> , 2015, 11, 4592-4599.	1.2	88
44	Droplet coalescence on water repellent surfaces. <i>Soft Matter</i> , 2015, 11, 154-160.	1.2	57
45	Role of spectral non-idealities in the design of solar thermophotovoltaics. <i>Optics Express</i> , 2014, 22, A1604.	1.7	26
46	Influence of Geometric Patterns of Microstructured Superhydrophobic Surfaces on Water-Harvesting Performance via Dewing. <i>Langmuir</i> , 2014, 30, 15468-15476.	1.6	72
47	Heat transfer and capillary performance of dual-height superhydrophilic micropost wicks. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 438-444.	2.5	14
48	A nanophotonic solar thermophotovoltaic device. <i>Nature Nanotechnology</i> , 2014, 9, 126-130.	15.6	704
49	Solar thermophotovoltaic energy conversion systems with two-dimensional tantalum photonic crystal absorbers and emitters. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 287-296.	3.0	158
50	Drop Impact Dynamics on Oil-Infused Nanostructured Surfaces. <i>Langmuir</i> , 2014, 30, 8400-8407.	1.6	81
51	Focusing of phase change microparticles for local heat transfer enhancement in laminar flows. <i>International Journal of Heat and Mass Transfer</i> , 2013, 56, 380-389.	2.5	26
52	A comparative study of the morphology and wetting characteristics of micro/nanostructured Cu surfaces for phase change heat transfer applications. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 2163-2176.	1.4	126
53	Jumping-Droplet-Enhanced Condensation on Scalable Superhydrophobic Nanostructured Surfaces. <i>Nano Letters</i> , 2013, 13, 179-187.	4.5	950
54	The study on the critical heat flux and pool boiling heat transfer coefficient of binary nanofluids (H ₂ O/LiBr+Al ₂ O ₃). <i>International Journal of Refrigeration</i> , 2013, 36, 1056-1061.	1.8	24

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55	Condensation on Superhydrophobic Copper Oxide Nanostructures. Journal of Heat Transfer, 2013, 135, .	1.2	187
56	Energy and hydrodynamic analyses of coalescence-induced jumping droplets. Applied Physics Letters, 2013, 103, .	1.5	155
57	Single bubble dynamics on a superhydrophilic surface with artificial nucleation sites. International Journal of Heat and Mass Transfer, 2011, 54, 1572-1577.	2.5	105
58	Characterization and Modeling of the Heat Transfer Performance of Nanostructured Cu Micropost Wicks. Journal of Heat Transfer, 2011, 133, .	1.2	86
59	Fabrication and Characterization of the Capillary Performance of Superhydrophilic Cu Micropost Arrays. Journal of Microelectromechanical Systems, 2010, 19, 581-588.	1.7	132
60	Experimental and Numerical Study of Single Bubble Dynamics on a Hydrophobic Surface. Journal of Heat Transfer, 2009, 131, .	1.2	108
61	Bubble nucleation on hydrophobic islands provides evidence to anomalously high contact angles of nanobubbles. Applied Physics Letters, 2008, 93, .	1.5	69