## Youngsuk Nam

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6610249/publications.pdf

Version: 2024-02-01

		186265	128289
61	4,234	28	60
papers	citations	h-index	g-index
61	61	61	3937
01	01	01	3937
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Organic/inorganic hybrid cerium oxide-based superhydrophobic surface with enhanced weather resistance and self-recovery. Progress in Organic Coatings, 2022, 170, 106998.	3.9	4
2	Influence of early drop bouncing on heat transfer during drop impact. International Communications in Heat and Mass Transfer, 2022, 137, 106235.	5.6	3
3	Reducing surface fouling against emulsified oils using CuO nanostructured surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125991.	4.7	2
4	A bio-inspired, low pressure drop liquid cooling system for high-power IGBT modules for EV/HEV applications. International Journal of Thermal Sciences, 2021, 161, 106708.	4.9	14
5	Modeling and optimization of hydrophobic surfaces for a two-phase closed thermosyphon. International Journal of Heat and Mass Transfer, 2021, 165, 120680.	4.8	7
6	Gallium-based liquid metal alloy incorporating oxide-free copper nanoparticle clusters for high-performance thermal interface materials. International Journal of Heat and Mass Transfer, 2021, 170, 121012.	4.8	44
7	High-Temperature Carbonized Ceria Thermophotovoltaic Emitter beyond Tungsten. ACS Applied Materials & Samp; Interfaces, 2021, 13, 42724-42731.	8.0	3
8	Enhancing heat transfer performance of a two-phase closed thermosyphon using a polymer-coated hydrophobic condenser. Applied Thermal Engineering, 2021, 196, 117350.	6.0	6
9	Effects and limitations of superhydrophobic surfaces on the heat transfer performance of a two-phase closed thermosyphon. International Journal of Heat and Mass Transfer, 2021, 176, 121446.	4.8	7
10	Dropwise condensation of acetone and ethanol for a high-performance lubricant-impregnated thermosyphon. International Journal of Heat and Mass Transfer, 2021, 181, 121871.	4.8	6
11	Passive Anti-Flooding Superhydrophobic Surfaces. ACS Applied Materials & amp; Interfaces, 2020, 12, 4068-4080.	8.0	37
12	Switching of heating and cooling modes using thermal radiation films. Current Applied Physics, 2020, 20, 1073-1079.	2.4	6
13	Endowing antifouling properties on metal substrata by creating an artificial barrier layer based on scalable metal oxide nanostructures. Biofouling, 2020, 36, 766-782.	2.2	4
14	Water penetration dynamics through a Janus mesh during drop impact. Soft Matter, 2020, 16, 6072-6081.	2.7	11
15	Superhydrophilic catenoidal aluminum micropost evaporator wicks. International Journal of Heat and Mass Transfer, 2020, 158, 120011.	4.8	15
16	Brushed lubricant-impregnated surfaces (BLIS) for long-lasting high condensation heat transfer. Scientific Reports, 2020, 10, 2959.	3.3	27
17	Liquid cooling module incorporating a metal foam and fin hybrid structure for high power insulated gate bipolar transistors (IGBTs). Applied Thermal Engineering, 2020, 173, 115230.	6.0	14
18	Contact time on curved superhydrophobic surfaces. Physical Review E, 2020, 101, 043108.	2.1	32

#	Article	IF	Citations
19	High-efficiency power generation in hyper-saline environment using conventional nanoporous membrane. Electrochimica Acta, 2019, 319, 366-374.	5.2	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. Nano Letters, 2019, 19, 7093-7099.	9.1	12
22	Characteristics analysis of the developed surface modification technologies to improve the anti-corrosion performances for offshore equipments. Journal of Mechanical Science and Technology, 2019, 33, 3971-3979.	1.5	15
23	Continuous scavenging of broadband vibrations via omnipotent tandem triboelectric nanogenerators with cascade impact structure. Scientific Reports, 2019, 9, 8223.	3.3	47
24	Performance Analysis of Gravity-Driven Oil–Water Separation Using Membranes with Special Wettability. Langmuir, 2019, 35, 7769-7782.	3.5	33
25	Influence of lubricant-mediated droplet coalescence on frosting delay on lubricant impregnated surfaces. International Journal of Heat and Mass Transfer, 2019, 128, 217-228.	4.8	19
26	Corrosion resistance of water repellent aluminum surfaces with various wetting morphologies. Applied Surface Science, 2019, 467-468, 1046-1052.	6.1	29
27	Anisotropic drop spreading on superhydrophobic grates during drop impact. Soft Matter, 2018, 14, 3760-3767.	2.7	12
28	Effect of geometrical parameters on rebound of impacting droplets on leaky superhydrophobic meshes. Soft Matter, 2018, 14, 1571-1580.	2.7	40
29	Mesoporous Highly-Deformable Composite Polymer for a Gapless Triboelectric Nanogenerator via a One-Step Metal Oxidation Process. Micromachines, 2018, 9, 656.	2.9	25
30	Pt/Alumina Hyperbolic Metafilms with Highâ€Temperature Stability, Wide Wavelength Tunability, and Omnidirectional Absorption. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800287.	1.8	9
31	Electron blocking layer-based interfacial design for highly-enhanced triboelectric nanogenerators. Nano Energy, 2018, 50, 9-15.	16.0	105
32	Condensation Heat-Transfer Performance of Thermally Stable Superhydrophobic Cerium-Oxide Surfaces. ACS Applied Materials & Surfaces, 2018, 10, 31765-31776.	8.0	24
33	A radioisotope thermophotovoltaic converter with nanophotonic emitters and filters. International Journal of Heat and Mass Transfer, 2017, 108, 1115-1125.	4.8	28
34	Enhanced heat transfer using metal foam liquid supply layers for micro heat spreaders. International Journal of Heat and Mass Transfer, 2017, 108, 2338-2345.	4.8	37
35	Absorption mechanism and performance characterization of CuO nanostructured absorbers. Solar Energy Materials and Solar Cells, 2017, 169, 270-279.	6.2	42
36	Water Penetration through a Superhydrophobic Mesh During a Drop Impact. Physical Review Letters, 2017, 118, 014501.	7.8	79

#	Article	IF	Citations
37	Dynamic heat transfer analysis of condensed droplets growing and coalescing on water repellent surfaces. International Journal of Heat and Mass Transfer, 2017, 114, 934-943.	4.8	21
38	Scalable superhydrophobic flexible plasmonic poly(tetrafluoroethylene-co-perfluorovinyl ether) films via ion-beam irradiation and metal deposition. Materials Express, 2017, 7, 319-323.	0.5	1
39	Single-Sided Digital Microfluidic (SDMF) Devices for Effective Coolant Delivery and Enhanced Two-Phase Cooling. Micromachines, 2017, 8, 3.	2.9	26
40	A superhydrophilic nitinol shape memory alloy with enhanced anti-biofouling and anti-corrosion properties. Biofouling, 2016, 32, 535-545.	2.2	9
41	The effects of surface wettability on the fog and dew moisture harvesting performance on tubular surfaces. Scientific Reports, 2016, 6, 24276.	3.3	155
42	Condensation behaviors and resulting heat transfer performance of nano-engineered copper surfaces. International Journal of Heat and Mass Transfer, 2016, 93, 286-292.	4.8	45
43	Two types of Cassie-to-Wenzel wetting transitions on superhydrophobic surfaces during drop impact. Soft Matter, 2015, 11, 4592-4599.	2.7	88
44	Droplet coalescence on water repellant surfaces. Soft Matter, 2015, 11, 154-160.	2.7	57
45	Role of spectral non-idealities in the design of solar thermophotovoltaics. Optics Express, 2014, 22, A1604.	3.4	26
46	Influence of Geometric Patterns of Microstructured Superhydrophobic Surfaces on Water-Harvesting Performance via Dewing. Langmuir, 2014, 30, 15468-15476.	3.5	72
47	Heat transfer and capillary performance of dual-height superhydrophilic micropost wicks. International Journal of Heat and Mass Transfer, 2014, 73, 438-444.	4.8	14
48	A nanophotonic solar thermophotovoltaic device. Nature Nanotechnology, 2014, 9, 126-130.	31.5	704
49	Solar thermophotovoltaic energy conversion systems with two-dimensional tantalum photonic crystal absorbers and emitters. Solar Energy Materials and Solar Cells, 2014, 122, 287-296.	6.2	158
50	Drop Impact Dynamics on Oil-Infused Nanostructured Surfaces. Langmuir, 2014, 30, 8400-8407.	3.5	81
51	Focusing of phase change microparticles for local heat transfer enhancement in laminar flows. International Journal of Heat and Mass Transfer, 2013, 56, 380-389.	4.8	26
52	A comparative study of the morphology and wetting characteristics of micro/nanostructured Cu surfaces for phase change heat transfer applications. Journal of Adhesion Science and Technology, 2013, 27, 2163-2176.	2.6	126
53	Jumping-Droplet-Enhanced Condensation on Scalable Superhydrophobic Nanostructured Surfaces. Nano Letters, 2013, 13, 179-187.	9.1	950
54	The study on the critical heat flux and pool boiling heat transfer coefficient of binary nanofluids (H2O/LiBrÂ+ÂAl2O3). International Journal of Refrigeration, 2013, 36, 1056-1061.	3.4	24

## Youngsuk Nam

#	Article	IF	CITATIONS
55	Condensation on Superhydrophobic Copper Oxide Nanostructures. Journal of Heat Transfer, 2013, 135,	2.1	187
56	Energy and hydrodynamic analyses of coalescence-induced jumping droplets. Applied Physics Letters, 2013, 103, .	3.3	155
57	Single bubble dynamics on a superhydrophilic surface with artificial nucleation sites. International Journal of Heat and Mass Transfer, 2011, 54, 1572-1577.	4.8	105
58	Characterization and Modeling of the Heat Transfer Performance of Nanostructured Cu Micropost Wicks. Journal of Heat Transfer, 2011, 133, .	2.1	86
59	Fabrication and Characterization of the Capillary Performance of Superhydrophilic Cu Micropost Arrays. Journal of Microelectromechanical Systems, 2010, 19, 581-588.	2.5	132
60	Experimental and Numerical Study of Single Bubble Dynamics on a Hydrophobic Surface. Journal of Heat Transfer, 2009, 131, .	2.1	108
61	Bubble nucleation on hydrophobic islands provides evidence to anomalously high contact angles of nanobubbles. Applied Physics Letters, 2008, 93, .	3.3	69