Namkyu Lee

List of Publications by Year
in descending order

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33 papers	738 citations	623734 14 h-index	526287 27 g-index
33 all docs	33 docs citations	33 times ranked	579 citing authors

#	Article	IF	Citations
1	Hierarchical Metamaterials for Multispectral Camouflage of Infrared and Microwaves. Advanced Functional Materials, 2019, 29, 1807319.	14.9	154
2	Enhancement of Pool Boiling Heat Transfer Using Aligned Silicon Nanowire Arrays. ACS Applied Materials & Interfaces, 2017, 9, 17595-17602.	8.0	93
3	Metamaterial-Selective Emitter for Maximizing Infrared Camouflage Performance with Energy Dissipation. ACS Applied Materials & Interfaces, 2019, 11, 21250-21257.	8.0	88
4	Enhancing thermal stability and uniformity in boiling heat transfer using micro-nano hybrid surfaces (MNHS). Applied Thermal Engineering, 2018, 130, 710-721.	6.0	47
5	Flexible Assembled Metamaterials for Infrared and Microwave Camouflage. Advanced Optical Materials, 2022, 10, .	7.3	44
6	Enhanced boiling heat transfer on nanowire-forested surfaces under subcooling conditions. International Journal of Heat and Mass Transfer, 2018, 120, 1020-1030.	4.8	36
7	Multiple Resonance Metamaterial Emitter for Deception of Infrared Emission with Enhanced Energy Dissipation. ACS Applied Materials & Interfaces, 2020, 12, 8862-8869.	8.0	33
8	Transparent Metamaterials for Multispectral Camouflage with Thermal Management. International Journal of Heat and Mass Transfer, 2021, 173, 121173.	4.8	33
9	Enhanced thermal uniformity and stability in pool boiling heat transfer using ultrasonic actuation. International Communications in Heat and Mass Transfer, 2019, 106, 22-30.	5.6	29
10	Enhancement of flow boiling heat transfer using heterogeneous wettability patterned surfaces with varying inter-spacing. International Journal of Heat and Mass Transfer, 2021, 164, 120596.	4.8	29
11	Design of Multilayer Ring Emitter Based on Metamaterial for Thermophotovoltaic Applications. Energies, 2018, 11, 2299.	3.1	28
12	Enhanced boiling heat transfer on micro-structured surfaces via ultrasonic actuation. International Communications in Heat and Mass Transfer, 2020, 113, 104512.	5.6	18
13	Flexible Thermocamouflage Materials in Supersonic Flowfields with Selective Energy Dissipation. ACS Applied Materials & Interfaces, 2021, 13, 43524-43532.	8.0	18
14	Thermophoretic Micron-Scale Devices: Practical Approach and Review. Entropy, 2020, 22, 950.	2.2	16
15	Multispectral Optical Confusion System: Visible to Infrared Coloration with Fractal Nanostructures. ACS Applied Materials & Interfaces, 2022, 14, 28337-28347.	8.0	11
16	Thermal design of helium cooled divertor for reliable operation. Applied Thermal Engineering, 2017, 110, 1578-1588.	6.0	8
17	Effects of radiative local heating on metal solidification during selective laser melting for additive manufacturing. Applied Surface Science, 2019, 496, 143594.	6.1	8
18	Heat Transfer Characteristics of a Focused Surface Acoustic Wave (F-SAW) Device for Interfacial Droplet Jetting. Inventions, 2018, 3, 38.	2.5	7

#	Article	IF	Citations
19	Nano-inspired smart interfaces: fluidic interactivity and its impact on heat transfer. Scientific Reports, 2017, 7, 45323.	3.3	6
20	Thermal design of dual circulating fluidized bed reactors for a large-scale CO2 capture system. Applied Thermal Engineering, 2020, 171, 115114.	6.0	6
21	Surfaces with bent micro-polymerized pillars exhibit enhanced heat transfer during subcooled flow boiling. International Journal of Heat and Mass Transfer, 2022, 182, 121941.	4.8	5
22	Enhancement of cooling performance of a helium-cooled divertor through the addition of rib structures on the jet-impingement area. Fusion Engineering and Design, 2018, 136, 655-660.	1.9	4
23	Metamaterials: Hierarchical Metamaterials for Multispectral Camouflage of Infrared and Microwaves (Adv. Funct. Mater. 10/2019). Advanced Functional Materials, 2019, 29, 1970060.	14.9	4
24	Nozzle-to-target distance effect on the cooling performances of a jet-impingement helium-cooled divertor. Fusion Engineering and Design, 2018, 136, 803-808.	1.9	3
25	BUBBLE DYNAMICS AND POOL BOILING PERFORMANCE ON BIPHILIC PATTERNED SURFACES. , 2018, , .		3
26	Thermophoretic microfluidic cells for evaluating Soret coefficient of colloidal particles. International Journal of Heat and Mass Transfer, 2022, 194, 123002.	4.8	3
27	Unidirectional wicking-driven flow boiling on tilted pillar structures for high-power applications. International Journal of Heat and Mass Transfer, 2022, 189, 122673.	4.8	2
28	Heat-Absorbing Capacity of High-Heat-Flux Components in Nuclear Fusion Reactors. Energies, 2019, 12, 3771.	3.1	1
29	Temperature profile characterization with fluorescence lifetime imaging microscopy in a thermophoretic chip. European Physical Journal E, 2021, 44, 130.	1.6	1
30	Measurement of surface heat transfer caused by interaction of sonic jet and supersonic crossflow near injection hole. Aerospace Science and Technology, 2021, 119, 107180.	4.8	0
31	Metal-Dielectric-Metal Selective Emitter with Circular Hole Patterns for Thermo-photovoltaic. Transactions of the Korean Society of Mechanical Engineers, B, 2018, 42, 357-363.	0.1	0
32	Analysis on Change in Electrical Transmission Characteristic about FSS Radome on Flight Scenario. Journal of the Korean Society of Propulsion Engineers, 2019, 23, 11-20.	0.2	0
33	Intake Performance Characteristics according to S-duct Cross-section Shape in UAV. Journal of the Korean Society of Propulsion Engineers, 2019, 23, 107-114.	0.2	0