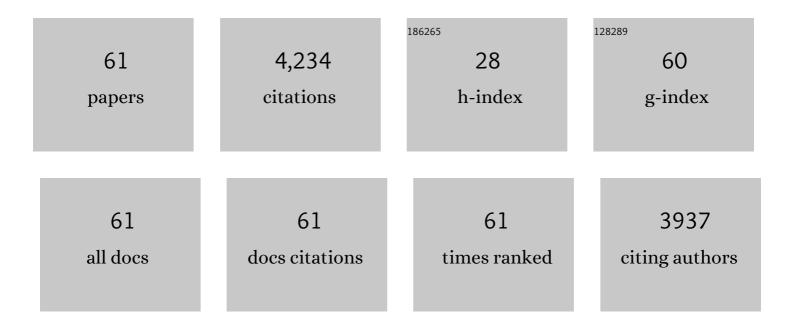
List of Publications by Year in descending order

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YOUNCSUK NAM

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Jumping-Droplet-Enhanced Condensation on Scalable Superhydrophobic Nanostructured Surfaces. Nano Letters, 2013, 13, 179-187. | 9.1 | 950 |
| 2 | A nanophotonic solar thermophotovoltaic device. Nature Nanotechnology, 2014, 9, 126-130. | 31.5 | 704 |
| 3 | Condensation on Superhydrophobic Copper Oxide Nanostructures. Journal of Heat Transfer, 2013, 135, | 2.1 | 187 |
| 4 | 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 |
| 5 | Energy and hydrodynamic analyses of coalescence-induced jumping droplets. Applied Physics Letters, 2013, 103, . | 3.3 | 155 |
| 6 | The effects of surface wettability on the fog and dew moisture harvesting performance on tubular surfaces. Scientific Reports, 2016, 6, 24276. | 3.3 | 155 |
| 7 | Fabrication and Characterization of the Capillary Performance of Superhydrophilic Cu Micropost Arrays. Journal of Microelectromechanical Systems, 2010, 19, 581-588. | 2.5 | 132 |
| 8 | 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 |
| 9 | Experimental and Numerical Study of Single Bubble Dynamics on a Hydrophobic Surface. Journal of Heat Transfer, 2009, 131, . | 2.1 | 108 |
| 10 | 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 |
| 11 | Electron blocking layer-based interfacial design for highly-enhanced triboelectric nanogenerators. Nano Energy, 2018, 50, 9-15. | 16.0 | 105 |
| 12 | Two types of Cassie-to-Wenzel wetting transitions on superhydrophobic surfaces during drop impact. Soft Matter, 2015, 11, 4592-4599. | 2.7 | 88 |
| 13 | Characterization and Modeling of the Heat Transfer Performance of Nanostructured Cu Micropost Wicks. Journal of Heat Transfer, 2011, 133, . | 2.1 | 86 |
| 14 | Drop Impact Dynamics on Oil-Infused Nanostructured Surfaces. Langmuir, 2014, 30, 8400-8407. | 3.5 | 81 |
| 15 | Water Penetration through a Superhydrophobic Mesh During a Drop Impact. Physical Review Letters, 2017, 118, 014501. | 7.8 | 79 |
| 16 | Influence of Geometric Patterns of Microstructured Superhydrophobic Surfaces on Water-Harvesting Performance via Dewing. Langmuir, 2014, 30, 15468-15476. | 3.5 | 72 |
| 17 | Bubble nucleation on hydrophobic islands provides evidence to anomalously high contact angles of nanobubbles. Applied Physics Letters, 2008, 93, . | 3.3 | 69 |
| 18 | Droplet coalescence on water repellant surfaces. Soft Matter, 2015, 11, 154-160. | 2.7 | 57 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Continuous scavenging of broadband vibrations via omnipotent tandem triboelectric nanogenerators with cascade impact structure. Scientific Reports, 2019, 9, 8223. | 3.3 | 47 |
| 20 | 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 |
| 21 | 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 |
| 22 | Absorption mechanism and performance characterization of CuO nanostructured absorbers. Solar Energy Materials and Solar Cells, 2017, 169, 270-279. | 6.2 | 42 |
| 23 | Effect of geometrical parameters on rebound of impacting droplets on leaky superhydrophobic meshes. Soft Matter, 2018, 14, 1571-1580. | 2.7 | 40 |
| 24 | 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 |
| 25 | Passive Anti-Flooding Superhydrophobic Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 4068-4080. | 8.0 | 37 |
| 26 | Performance Analysis of Gravity-Driven Oil–Water Separation Using Membranes with Special Wettability. Langmuir, 2019, 35, 7769-7782. | 3.5 | 33 |
| 27 | Contact time on curved superhydrophobic surfaces. Physical Review E, 2020, 101, 043108. | 2.1 | 32 |
| 28 | Corrosion resistance of water repellent aluminum surfaces with various wetting morphologies. Applied Surface Science, 2019, 467-468, 1046-1052. | 6.1 | 29 |
| 29 | A radioisotope thermophotovoltaic converter with nanophotonic emitters and filters. International Journal of Heat and Mass Transfer, 2017, 108, 1115-1125. | 4.8 | 28 |
| 30 | Brushed lubricant-impregnated surfaces (BLIS) for long-lasting high condensation heat transfer. Scientific Reports, 2020, 10, 2959. | 3.3 | 27 |
| 31 | 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 |
| 32 | Role of spectral non-idealities in the design of solar thermophotovoltaics. Optics Express, 2014, 22, A1604. | 3.4 | 26 |
| 33 | Single-Sided Digital Microfluidic (SDMF) Devices for Effective Coolant Delivery and Enhanced Two-Phase Cooling. Micromachines, 2017, 8, 3. | 2.9 | 26 |
| 34 | Mesoporous Highly-Deformable Composite Polymer for a Gapless Triboelectric Nanogenerator via a One-Step Metal Oxidation Process. Micromachines, 2018, 9, 656. | 2.9 | 25 |
| 35 | 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 |
| 36 | Condensation Heat-Transfer Performance of Thermally Stable Superhydrophobic Cerium-Oxide Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 31765-31776. | 8.0 | 24 |

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|----|---|-----|-----------|
| 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 | 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 |
| 39 | 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 |
| 40 | Superhydrophilic catenoidal aluminum micropost evaporator wicks. International Journal of Heat and Mass Transfer, 2020, 158, 120011. | 4.8 | 15 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Anisotropic drop spreading on superhydrophobic grates during drop impact. Soft Matter, 2018, 14, 3760-3767. | 2.7 | 12 |
| 45 | Optical Tunneling Mediated Sub-Skin-Depth High Emissivity Tungsten Radiators. Nano Letters, 2019, 19, 7093-7099. | 9.1 | 12 |
| 46 | Water penetration dynamics through a Janus mesh during drop impact. Soft Matter, 2020, 16, 6072-6081. | 2.7 | 11 |
| 47 | High-efficiency power generation in hyper-saline environment using conventional nanoporous membrane. Electrochimica Acta, 2019, 319, 366-374. | 5.2 | 10 |
| 48 | A superhydrophilic nitinol shape memory alloy with enhanced anti-biofouling and anti-corrosion properties. Biofouling, 2016, 32, 535-545. | 2.2 | 9 |
| 49 | Pt/Alumina Hyperbolic Metafilms with High‶emperature Stability, Wide Wavelength Tunability, and Omnidirectional Absorption. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800287. | 1.8 | 9 |
| 50 | 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 |
| 51 | 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 |
| 52 | Switching of heating and cooling modes using thermal radiation films. Current Applied Physics, 2020, 20, 1073-1079. | 2.4 | 6 |
| 53 | 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 |
| 54 | 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 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | High-Temperature Carbonized Ceria Thermophotovoltaic Emitter beyond Tungsten. ACS Applied Materials & Interfaces, 2021, 13, 42724-42731. | 8.0 | 3 |
| 58 | Influence of early drop bouncing on heat transfer during drop impact. International Communications in Heat and Mass Transfer, 2022, 137, 106235. | 5.6 | 3 |
| 59 | Reducing surface fouling against emulsified oils using CuO nanostructured surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125991. | 4.7 | 2 |
| 60 | 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 |
| 61 | Compact Liquid Cooling Module Incorporating Metal Foam and Fin Hybrid Structures for High Power IGBTs. , 2019, , . | | 1 |