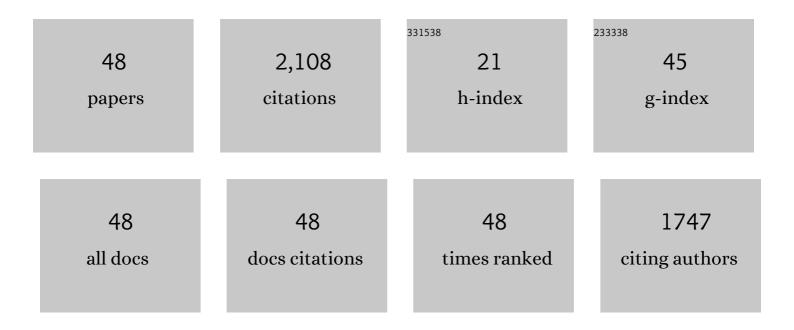
Lenan Zhang

List of Publications by Year in descending order

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Ι ΕΝΛΝ ΖΗΛΝΟ

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Ultrahigh-efficiency desalination <i>via</i> a thermally-localized multistage solar still. Energy and Environmental Science, 2020, 13, 830-839. | 15.6 | 317 |
| 2 | High-performance subambient radiative cooling enabled by optically selective and thermally insulating polyethylene aerogel. Science Advances, 2019, 5, eaat9480. | 4.7 | 281 |
| 3 | Dual-Stage Atmospheric Water Harvesting Device for Scalable Solar-Driven Water Production. Joule, 2021, 5, 166-182. | 11.7 | 173 |
| 4 | Passive, high-efficiency thermally-localized solar desalination. Energy and Environmental Science, 2021, 14, 1771-1793. | 15.6 | 142 |
| 5 | Bubble growth and departure modes on wettable/non-wettable porous foams in alkaline water splitting. Joule, 2021, 5, 887-900. | 11.7 | 123 |
| 6 | Highly efficient and salt rejecting solar evaporation via a wick-free confined water layer. Nature Communications, 2022, 13, 849. | 5.8 | 101 |
| 7 | A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. Joule, 2020, 4, 2733-2745. | 11.7 | 76 |
| 8 | Kinetics of Sorption in Hygroscopic Hydrogels. Nano Letters, 2022, 22, 1100-1107. | 4.5 | 65 |
| 9 | Effects of millimetric geometric features on dropwise condensation under different vapor conditions. International Journal of Heat and Mass Transfer, 2018, 119, 931-938. | 2.5 | 55 |
| 10 | Thermal Expansion Coefficient of Monolayer Molybdenum Disulfide Using Micro-Raman Spectroscopy. Nano Letters, 2019, 19, 4745-4751. | 4.5 | 54 |
| 11 | Modeling and performance analysis of high-efficiency thermally-localized multistage solar stills. Applied Energy, 2020, 266, 114864. | 5.1 | 52 |
| 12 | Simultaneous measurement of temperature, stress, and electric field in GaN HEMTs with micro-Raman spectroscopy. Review of Scientific Instruments, 2017, 88, 113111. | 0.6 | 51 |
| 13 | Capillary-fed, thin film evaporation devices. Journal of Applied Physics, 2020, 128, . | 1.1 | 51 |
| 14 | Geometric prediction of conic tool in micro-EDM milling with fix-length compensation using simulation. International Journal of Machine Tools and Manufacture, 2015, 89, 86-94. | 6.2 | 48 |
| 15 | Wide-Field Magnetic Field and Temperature Imaging Using Nanoscale Quantum Sensors. ACS Applied Materials & Interfaces, 2020, 12, 26525-26533. | 4.0 | 41 |
| 16 | Multiscale Dynamic Growth and Energy Transport of Droplets during Condensation. Langmuir, 2018, 34, 9085-9095. | 1.6 | 29 |
| 17 | An improved fix-length compensation method for electrical discharge milling using tubular tools. International Journal of Machine Tools and Manufacture, 2018, 124, 22-32. | 6.2 | 28 |
| 18 | Theoretical and experimental investigation of haze in transparent aerogels. Optics Express, 2019, 27, A39. | 1.7 | 27 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Size distribution theory for jumping-droplet condensation. Applied Physics Letters, 2019, 114, . | 1.5 | 27 |
| 20 | Investigation of flow boiling heat transfer and boiling crisis on a rough surface using infrared thermometry. International Journal of Heat and Mass Transfer, 2020, 160, 120134. | 2.5 | 25 |
| 21 | High-performance, flexible thermoelectric generator based on bulk materials. Cell Reports Physical Science, 2022, 3, 100780. | 2.8 | 24 |
| 22 | Boiling crisis due to bubble interactions. International Journal of Heat and Mass Transfer, 2022, 182, 121904. | 2.5 | 22 |
| 23 | A model of tool wear in electrical discharge machining process based on electromagnetic theory. International Journal of Machine Tools and Manufacture, 2017, 117, 31-41. | 6.2 | 20 |
| 24 | Understanding triggering mechanisms for critical heat flux in pool boiling based on direct numerical simulations. International Journal of Heat and Mass Transfer, 2020, 163, 120546. | 2.5 | 20 |
| 25 | Effects of airborne hydrocarbon adsorption on pool boiling heat transfer. Applied Physics Letters, 2020, 116, . | 1.5 | 18 |
| 26 | Lattice Boltzmann method simulations of Stokes number effects on particle motion in a channel flow. Physics of Fluids, 2016, 28, . | 1.6 | 17 |
| 27 | A unified relationship between bubble departure frequency and diameter during saturated nucleate pool boiling. International Journal of Heat and Mass Transfer, 2021, 165, 120640. | 2.5 | 16 |
| 28 | Regularized pseudo-phase imaging for inspecting and sensing nanoscale features. Optics Express, 2019, 27, 6719. | 1.7 | 16 |
| 29 | Unified descriptor for enhanced critical heat flux during pool boiling of hemi-wicking surfaces. International Journal of Heat and Mass Transfer, 2022, 183, 122189. | 2.5 | 16 |
| 30 | Transport-Based Modeling of Bubble Nucleation on Gas Evolving Electrodes. Langmuir, 2020, 36, 15112-15118. | 1.6 | 15 |
| 31 | Toward Optimal Heat Transfer of 2D–3D Heterostructures <i>via</i> van der Waals Binding Effects. ACS Applied Materials & Interfaces, 2021, 13, 46055-46064. | 4.0 | 15 |
| 32 | Heat and mass transfer in hygroscopic hydrogels. International Journal of Heat and Mass Transfer, 2022, 195, 123103. | 2.5 | 14 |
| 33 | Nucleation Site Distribution Probed by Phase-Enhanced Environmental Scanning Electron Microscopy. Cell Reports Physical Science, 2020, 1, 100262. | 2.8 | 13 |
| 34 | How Coalescing Bubbles Depart from a Wall. Langmuir, 2022, 38, 4371-4377. | 1.6 | 13 |
| 35 | Characterization of thin film evaporation in micropillar wicks using micro-Raman spectroscopy. Applied Physics Letters, 2018, 113, . | 1.5 | 12 |
| 36 | Wetting States and Departure Diameters of Bubbles on Micro-/Nanostructured Surfaces. Langmuir, 2022, 38, 3180-3188. | 1.6 | 12 |

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|----|--|-----|-----------|
| 37 | Enhanced Environmental Scanning Electron Microscopy Using Phase Reconstruction and Its Application in Condensation. ACS Nano, 2019, 13, 1953-1960. | 7.3 | 11 |
| 38 | An improved Capillary Breakup Extensional Rheometer to characterize weakly rate-thickening fluids: Applications in synthetic automotive oils. Journal of Non-Newtonian Fluid Mechanics, 2021, 291, 104496. | 1.0 | 11 |
| 39 | Alteration of pool boiling heat transfer on metallic surfaces by in situ oxidation. International Journal of Heat and Mass Transfer, 2022, 185, 122320. | 2.5 | 10 |
| 40 | Criteria for antibubble formation from drop pairs impinging on a free surface. Physical Review Fluids, 2020, 5, . | 1.0 | 9 |
| 41 | Research on the Equivalent Plane Machining with Fix-length Compensation Method in Micro-EDM. Procedia CIRP, 2016, 42, 644-649. | 1.0 | 7 |
| 42 | Stefan flow induced natural convection suppression on high-flux evaporators. International Communications in Heat and Mass Transfer, 2020, 110, 104255. | 2.9 | 7 |
| 43 | Framework for analyzing the thermoreflectance spectra of metal thermal transducers with spectrally tunable time-domain thermoreflectance. Journal of Applied Physics, 2020, 128, 055107. | 1.1 | 7 |
| 44 | Mesoscopic approach for nanoscale liquid-vapor interfacial statics and dynamics. International Journal of Heat and Mass Transfer, 2022, 194, 123104. | 2.5 | 6 |
| 45 | Design and modeling of a multiscale porous ceramic heat exchanger for high temperature applications with ultrahigh power density. International Journal of Heat and Mass Transfer, 2022, 194, 122996. | 2.5 | 4 |
| 46 | Machining Strategy and Key Problems for 3D Structure of Micro-EDM by Fix-length Compensation Method with Tubular Electrodes. Procedia CIRP, 2018, 68, 802-807. | 1.0 | 3 |
| 47 | Plasmonic absorption-induced haze suppression in random scattering media. Applied Physics Letters, 2019, 114, . | 1.5 | 2 |
| 48 | Quasiâ€Newtonian Environmental Scanning Electron Microscopy (QNâ€ESEM) for Monitoring Material Dynamics in Highâ€Pressure Gaseous Environments. Advanced Science, 2020, 7, 2001268. | 5.6 | 2 |