

Evelyn N Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/978676/publications.pdf>

Version: 2024-02-01

195
papers

18,264
citations

16451

64
h-index

12946

131
g-index

201
all docs

201
docs citations

201
times ranked

14467
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Al ₂ O ₃ ALD coating on thermal stability of silica aerogel. Journal of Porous Materials, 2022, 29, 193-200.	2.6	4
2	Boiling crisis due to bubble interactions. International Journal of Heat and Mass Transfer, 2022, 182, 121904.	4.8	22
3	Unified descriptor for enhanced critical heat flux during pool boiling of hemi-wicking surfaces. International Journal of Heat and Mass Transfer, 2022, 183, 122189.	4.8	16
4	Temporal Evolution of Surface Contamination under Ultra-high Vacuum. Langmuir, 2022, 38, 1252-1258.	3.5	10
5	Turning traditionally nonwetting surfaces wetting for even ultra-high surface energy liquids. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
6	Kinetics of Sorption in Hygroscopic Hydrogels. Nano Letters, 2022, 22, 1100-1107.	9.1	65
7	Alteration of pool boiling heat transfer on metallic surfaces by in situ oxidation. International Journal of Heat and Mass Transfer, 2022, 185, 122320.	4.8	10
8	Enhancement of Boiling with Scalable Sandblasted Surfaces. ACS Applied Materials & Interfaces, 2022, 14, 9788-9794.	8.0	16
9	Highly efficient and salt rejecting solar evaporation via a wick-free confined water layer. Nature Communications, 2022, 13, 849.	12.8	101
10	How Coalescing Bubbles Depart from a Wall. Langmuir, 2022, 38, 4371-4377.	3.5	13
11	Thermophotovoltaic efficiency of 40%. Nature, 2022, 604, 287-291.	27.8	108
12	Revisiting the Schrage Equation for Kinetically Limited Evaporation and Condensation. Journal of Heat Transfer, 2022, 144, .	2.1	12
13	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.	4.8	4
14	Three-Tier Hierarchical Structures for Extreme Pool Boiling Heat Transfer Performance. Advanced Materials, 2022, 34, .	21.0	38
15	Heat and mass transfer in hygroscopic hydrogels. International Journal of Heat and Mass Transfer, 2022, 195, 123103.	4.8	14
16	Dual-Stage Atmospheric Water Harvesting Device for Scalable Solar-Driven Water Production. Joule, 2021, 5, 166-182.	24.0	173
17	A unified relationship between bubble departure frequency and diameter during saturated nucleate pool boiling. International Journal of Heat and Mass Transfer, 2021, 165, 120640.	4.8	16
18	Solar-Driven Soft Robots. Advanced Science, 2021, 8, 2004235.	11.2	17

#	ARTICLE	IF	CITATIONS
19	Microtube Surfaces for the Simultaneous Enhancement of Efficiency and Critical Heat Flux during Pool Boiling. ACS Applied Materials & Interfaces, 2021, 13, 12629-12635.	8.0	36
20	Bubble growth and departure modes on wettable/non-wettable porous foams in alkaline water splitting. Joule, 2021, 5, 887-900.	24.0	123
21	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. Nano Letters, 2021, 21, 8160-8165.	9.1	6
22	Toward Optimal Heat Transfer of 2D-3D Heterostructures via van der Waals Binding Effects. ACS Applied Materials & Interfaces, 2021, 13, 46055-46064.	8.0	15
23	Passive, high-efficiency thermally-localized solar desalination. Energy and Environmental Science, 2021, 14, 1771-1793.	30.8	142
24	Rational Fabrication of Nano-to-Microsphere Polycrystalline Opals Using Slope Self-Assembly. Langmuir, 2021, 37, 12568-12576.	3.5	4
25	Zinc sulfide-pigmented polyethylene aerogel covers for daytime radiative cooling. Journal of Photonics for Energy, 2021, 11, .	1.3	6
26	Numerical validation of the dusty-gas model for binary diffusion in low aspect ratio capillaries. Physics of Fluids, 2021, 33, .	4.0	4
27	Stefan flow induced natural convection suppression on high-flux evaporators. International Communications in Heat and Mass Transfer, 2020, 110, 104255.	5.6	7
28	Manipulating Water and Heat with Nanoengineered Surfaces. Women in Engineering and Science, 2020, , 85-99.	0.4	0
29	Jumping droplet condensation in internal convective vapor flow. International Journal of Heat and Mass Transfer, 2020, 163, 120398.	4.8	9
30	Capillary-fed, thin film evaporation devices. Journal of Applied Physics, 2020, 128, .	2.5	51
31	A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. Joule, 2020, 4, 2733-2745.	24.0	76
32	Polymer Infused Porous Surfaces for Robust, Thermally Conductive, Self-Healing Coatings for Dropwise Condensation. ACS Nano, 2020, 14, 14878-14886.	14.6	46
33	Transport-Based Modeling of Bubble Nucleation on Gas Evolving Electrodes. Langmuir, 2020, 36, 15112-15118.	3.5	15
34	Thermodynamic analysis and optimization of adsorption-based atmospheric water harvesting. International Journal of Heat and Mass Transfer, 2020, 161, 120253.	4.8	44
35	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.	4.8	20
36	Framework for analyzing the thermorefectance spectra of metal thermal transducers with spectrally tunable time-domain thermorefectance. Journal of Applied Physics, 2020, 128, 055107.	2.5	7

#	ARTICLE	IF	CITATIONS
37	Quasi-Newtonian Environmental Scanning Electron Microscopy (QN-ESEM) for Monitoring Material Dynamics in High-Pressure Gaseous Environments. <i>Advanced Science</i> , 2020, 7, 2001268.	11.2	2
38	Nucleation Site Distribution Probed by Phase-Enhanced Environmental Scanning Electron Microscopy. <i>Cell Reports Physical Science</i> , 2020, 1, 100262.	5.6	13
39	Wide-Field Magnetic Field and Temperature Imaging Using Nanoscale Quantum Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26525-26533.	8.0	41
40	Heat transfer suppression by suspended droplets on microstructured surfaces. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	15
41	Effects of airborne hydrocarbon adsorption on pool boiling heat transfer. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	18
42	High Heat Flux Evaporation of Low Surface Tension Liquids from Nanoporous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7232-7238.	8.0	36
43	Ultrahigh-efficiency desalination <i>via</i> a thermally-localized multistage solar still. <i>Energy and Environmental Science</i> , 2020, 13, 830-839.	30.8	317
44	Modeling and performance analysis of high-efficiency thermally-localized multistage solar stills. <i>Applied Energy</i> , 2020, 266, 114864.	10.1	52
45	The potential for atmospheric water harvesting to accelerate household access to safe water. <i>Lancet Planetary Health</i> , The, 2020, 4, e91-e92.	11.4	20
46	Criteria for antibubble formation from drop pairs impinging on a free surface. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	9
47	High temperature stability of transparent silica aerogels for solar thermal applications. <i>APL Materials</i> , 2019, 7, .	5.1	30
48	Theoretical and experimental investigation of haze in transparent aerogels. <i>Optics Express</i> , 2019, 27, A39.	3.4	27
49	Bubble nucleation, growth, and departure: A new, dynamic understanding. <i>International Journal of Heat and Mass Transfer</i> , 2019, 145, 118803.	4.8	15
50	High-performance subambient radiative cooling enabled by optically selective and thermally insulating polyethylene aerogel. <i>Science Advances</i> , 2019, 5, eaat9480.	10.3	281
51	Plasmonic absorption-induced haze suppression in random scattering media. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	2
52	Harnessing Heat Beyond 200 °C from Unconcentrated Sunlight with Nonevacuated Transparent Aerogels. <i>ACS Nano</i> , 2019, 13, 7508-7516.	14.6	97
53	A unified relationship for evaporation kinetics at low Mach numbers. <i>Nature Communications</i> , 2019, 10, 2368.	12.8	73
54	Thermal Expansion Coefficient of Monolayer Molybdenum Disulfide Using Micro-Raman Spectroscopy. <i>Nano Letters</i> , 2019, 19, 4745-4751.	9.1	54

#	ARTICLE	IF	CITATIONS
55	Adsorption-Based Atmospheric Water Harvesting: Impact of Material and Component Properties on System-Level Performance. Accounts of Chemical Research, 2019, 52, 1588-1597.	15.6	219
56	Size distribution theory for jumping-droplet condensation. Applied Physics Letters, 2019, 114, .	3.3	27
57	Simultaneous prediction of dryout heat flux and local temperature for thin film evaporation in micropillar wicks. International Journal of Heat and Mass Transfer, 2019, 136, 170-177.	4.8	25
58	Corrections to “Design and Modeling of Membrane-Based Evaporative Cooling Devices for Thermal Management of High Heat Fluxes” [Jul 16 1056-1065]. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1663-1663.	2.5	1
59	Embedded Microjets for Thermal Management of High Power-Density Electronic Devices. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 269-278.	2.5	18
60	Enhanced Environmental Scanning Electron Microscopy Using Phase Reconstruction and Its Application in Condensation. ACS Nano, 2019, 13, 1953-1960.	14.6	11
61	Jumping Droplets Push the Boundaries of Condensation Heat Transfer. Joule, 2018, 2, 205-207.	24.0	35
62	A Hybrid Electric and Thermal Solar Receiver. Joule, 2018, 2, 962-975.	24.0	70
63	Hotspot Thermal Management via Thin-Film Evaporation”Part I: Experimental Characterization. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 88-98.	2.5	11
64	Theory of Thermal Time Constants in GaN High-Electron-Mobility Transistors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 606-620.	2.5	22
65	Predicting Surface Tensions of Surfactant Solutions from Statistical Mechanics. Langmuir, 2018, 34, 2386-2395.	3.5	10
66	Heat Transfer Enhancement During Water and Hydrocarbon Condensation on Lubricant Infused Surfaces. Scientific Reports, 2018, 8, 540.	3.3	111
67	Effects of millimetric geometric features on dropwise condensation under different vapor conditions. International Journal of Heat and Mass Transfer, 2018, 119, 931-938.	4.8	55
68	Hotspot Thermal Management via Thin-Film Evaporation”Part II: Modeling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 99-112.	2.5	7
69	Charging of miniature flat heat pipes. Heat and Mass Transfer, 2018, 54, 3131-3136.	2.1	0
70	Salt rejection in flow-between capacitive deionization devices. Desalination, 2018, 437, 154-163.	8.2	35
71	Gravitationally Driven Wicking for Enhanced Condensation Heat Transfer. Langmuir, 2018, 34, 4658-4664.	3.5	42
72	Precise control of pore hydrophilicity enabled by post-synthetic cation exchange in metal-organic frameworks. Chemical Science, 2018, 9, 3856-3859.	7.4	70

#	ARTICLE	IF	CITATIONS
73	Adsorption-based atmospheric water harvesting device for arid climates. Nature Communications, 2018, 9, 1191.	12.8	401
74	Nanoporous membrane device for ultra high heat flux thermal management. Microsystems and Nanoengineering, 2018, 4, 1.	7.0	154
75	Passive directional sub-ambient daytime radiative cooling. Nature Communications, 2018, 9, 5001.	12.8	179
76	Tunable Metal-Organic Frameworks Enable High-Efficiency Cascaded Adsorption Heat Pumps. Journal of the American Chemical Society, 2018, 140, 17591-17596.	13.7	78
77	Toward Condensation-Resistant Omniphobic Surfaces. ACS Nano, 2018, 12, 11013-11021.	14.6	62
78	Active fume hood sash height monitoring with audible feedback. Energy Reports, 2018, 4, 645-652.	5.1	5
79	Characterization of thin film evaporation in micropillar wicks using micro-Raman spectroscopy. Applied Physics Letters, 2018, 113, .	3.3	12
80	Specular side reflectors for high efficiency thermal-to-optical energy conversion. Optics Express, 2018, 26, A462.	3.4	8
81	Radiative Thermal Runaway Due to Negative-Differential Thermal Emission Across a Solid-Solid Phase Transition. Physical Review Applied, 2018, 10, .	3.8	20
82	Optimization and thermal characterization of uniform silicon micropillar based evaporators. International Journal of Heat and Mass Transfer, 2018, 127, 51-60.	4.8	28
83	Multiscale Dynamic Growth and Energy Transport of Droplets during Condensation. Langmuir, 2018, 34, 9085-9095.	3.5	29
84	Suppressing high-frequency temperature oscillations in microchannels with surface structures. Applied Physics Letters, 2017, 110, .	3.3	28
85	High temperature annealing for structural optimization of silica aerogels in solar thermal applications. Journal of Non-Crystalline Solids, 2017, 462, 72-77.	3.1	52
86	Experimental Characterization of the Thermal Time Constants of GaN HEMTs Via Micro-Raman Thermometry. IEEE Transactions on Electron Devices, 2017, 64, 2121-2128.	3.0	45
87	Water harvesting from air with metal-organic frameworks powered by natural sunlight. Science, 2017, 356, 430-434.	12.6	1,179
88	Record Atmospheric Fresh Water Capture and Heat Transfer with a Material Operating at the Water Uptake Reversibility Limit. ACS Central Science, 2017, 3, 668-672.	11.3	275
89	Nanoengineered materials for liquid-vapour phase-change heat transfer. Nature Reviews Materials, 2017, 2, .	48.7	431
90	A thermophysical battery for storage-based climate control. Applied Energy, 2017, 189, 31-43.	10.1	47

#	ARTICLE	IF	CITATIONS
91	Parametric study of thin film evaporation from nanoporous membranes. Applied Physics Letters, 2017, 111, .	3.3	53
92	An Ultrathin Nanoporous Membrane Evaporator. Nano Letters, 2017, 17, 6217-6220.	9.1	60
93	Combined selective emitter and filter for high performance incandescent lighting. Applied Physics Letters, 2017, 111, .	3.3	7
94	Nanoengineered devices for solar energy conversion. , 2017, , .		0
95	Thin-film evaporation from micropillar wicks in ambient environment. , 2017, , .		1
96	Coexistence of Pinning and Moving on a Contact Line. Langmuir, 2017, 33, 8970-8975.	3.5	24
97	Response to Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight" Science, 2017, 358, .	12.6	5
98	Response to Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight" Science, 2017, 358, .	12.6	16
99	Design of Lubricant Infused Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 42383-42392.	8.0	131
100	Enhanced water transport and salt rejection through hydrophobic zeolite pores. Nanotechnology, 2017, 28, 505703.	2.6	11
101	Simultaneous measurement of temperature, stress, and electric field in GaN HEMTs with micro-Raman spectroscopy. Review of Scientific Instruments, 2017, 88, 113111.	1.3	51
102	Athermal operation of multi-section slotted tunable lasers. Optics Express, 2017, 25, 14414.	3.4	16
103	Methylammonium Bismuth Iodide as a Lead-Free, Stable Hybrid Organic-Inorganic Solar Absorber. Chemistry - A European Journal, 2016, 22, 2605-2610.	3.3	312
104	Porous Cu Nanowire Aerosponges from One-Step Assembly and their Applications in Heat Dissipation. Advanced Materials, 2016, 28, 1413-1419.	21.0	109
105	Design and Modeling of Membrane-Based Evaporative Cooling Devices for Thermal Management of High Heat Fluxes. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1056-1065.	2.5	54
106	Controlled Wetting in Nanoporous Membranes for Thin Film Evaporation. Journal of Heat Transfer, 2016, 138, .	2.1	9
107	Experiments on the ultrathin silicon vapor chamber for enhanced heat transfer performance. , 2016, , .		8
108	Surface Structure Enhanced Microchannel Flow Boiling. Journal of Heat Transfer, 2016, 138, .	2.1	129

#	ARTICLE	IF	CITATIONS
109	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. AIP Advances, 2016, 6, .	1.3	40
110	Electric field dependence of optical phonon frequencies in wurtzite GaN observed in GaN high electron mobility transistors. Journal of Applied Physics, 2016, 120, .	2.5	12
111	Modeling silica aerogel optical performance by determining its radiative properties. AIP Advances, 2016, 6, .	1.3	44
112	Contributed Review: Experimental characterization of inverse piezoelectric strain in GaN HEMTs via micro-Raman spectroscopy. Review of Scientific Instruments, 2016, 87, 061501.	1.3	10
113	Electrically induced drop detachment and ejection. Physics of Fluids, 2016, 28, .	4.0	44
114	Electrowetting-on-dielectric actuation of a vertical translation and angular manipulation stage. Applied Physics Letters, 2016, 109, .	3.3	18
115	Spectral splitting optimization for high-efficiency solar photovoltaic and thermal power generation. Applied Physics Letters, 2016, 109, .	3.3	25
116	Transient thermal dynamics of GaN HEMTs. , 2016, , .		9
117	Optimization and thermal characterization of uniform micropillar based silicon evaporator in advanced vapor chambers. , 2016, , .		3
118	Three-dimensional graphene enhanced heat conduction of porous crystals. Journal of Porous Materials, 2016, 23, 1647-1652.	2.6	14
119	Detailed thermal resistance model for characterization of the overall effective thermal conductivity of a flat heat pipe. , 2016, , .		3
120	Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes. Nature Communications, 2016, 7, 12762.	12.8	80
121	Characterization of Adsorption Enthalpy of Novel Water-Stable Zeolites and Metal-Organic Frameworks. Scientific Reports, 2016, 6, 19097.	3.3	59
122	Design of micropillar wicks for thin-film evaporation. International Journal of Heat and Mass Transfer, 2016, 101, 280-294.	4.8	116
123	Visualization of the Evaporating Liquid-Vapor Interface in Micropillar Arrays. Journal of Heat Transfer, 2016, 138, .	2.1	3
124	Prediction and Characterization of Dry-out Heat Flux in Micropillar Wick Structures. Langmuir, 2016, 32, 1920-1927.	3.5	62
125	Dynamic Evolution of the Evaporating Liquid-Vapor Interface in Micropillar Arrays. Langmuir, 2016, 32, 519-526.	3.5	29
126	RECENT ADVANCES IN ADSORPTION-BASED HEATING AND COOLING SYSTEMS. Annual Review of Heat Transfer, 2016, 19, 199-239.	1.0	4

#	ARTICLE	IF	CITATIONS
127	Ultrathin planar hematite film for solar photoelectrochemical water splitting. Optics Express, 2015, 23, A1491.	3.4	6
128	Dimensionality effects of carbon-based thermal additives for microporous adsorbents. Materials and Design, 2015, 85, 520-526.	7.0	21
129	Thermal battery for portable climate control. Applied Energy, 2015, 149, 104-116.	10.1	63
130	Scalable Graphene Coatings for Enhanced Condensation Heat Transfer. Nano Letters, 2015, 15, 2902-2909.	9.1	236
131	In-situ aging microwave heating synthesis of LTA zeolite layer on mesoporous TiO ₂ coated porous alumina support. Journal of Crystal Growth, 2015, 432, 123-128.	1.5	5
132	Turning bubbles on and off during boiling using charged surfactants. Nature Communications, 2015, 6, 8599.	12.8	115
133	Concentrating Solar Power. Chemical Reviews, 2015, 115, 12797-12838.	47.7	438
134	Modeling of Evaporation from Nanopores with Nonequilibrium and Nonlocal Effects. Langmuir, 2015, 31, 9817-9824.	3.5	78
135	Zeolite Y adsorbents with high vapor uptake capacity and robust cycling stability for potential applications in advanced adsorption heat pumps. Microporous and Mesoporous Materials, 2015, 201, 151-159.	4.4	36
136	Jumping Droplet Electrostatic Charging and Effect on Vapor Drag. Journal of Heat Transfer, 2014, 136, .	2.1	20
137	Experimental characterization of Si micropillar based evaporator for advanced vapor chambers. , 2014, , .		7
138	Effect of hydrocarbon adsorption on the wettability of rare earth oxide ceramics. Applied Physics Letters, 2014, 105, .	3.3	154
139	Designed Single-Step Synthesis, Structure, and Derivative Textural Properties of Well-Ordered Layered Penta-coordinate Silicon Alcoholate Complexes. Chemistry - A European Journal, 2014, 20, 6315-6323.	3.3	3
140	A nanophotonic solar thermophotovoltaic device. Nature Nanotechnology, 2014, 9, 126-130.	31.5	704
141	Framework water capacity and infiltration pressure of MFI zeolites. Microporous and Mesoporous Materials, 2014, 190, 84-91.	4.4	20
142	One-pot solvothermal synthesis of a well-ordered layered sodium aluminohydroxide complex: a useful precursor for the preparation of porous Al ₂ O ₃ particles. CrystEngComm, 2014, 16, 2950-2958.	2.6	6
143	Real-Time Manipulation with Magnetically Tunable Structures. Advanced Materials, 2014, 26, 6442-6446.	21.0	120
144	Jumping-droplet electrostatic energy harvesting. Applied Physics Letters, 2014, 105, .	3.3	163

#	ARTICLE	IF	CITATIONS
145	High-resolution liquid patterns via three-dimensional droplet shape control. Nature Communications, 2014, 5, 4975.	12.8	85
146	Enabling Ideal Selective Solar Absorption with 2D Metallic Dielectric Photonic Crystals. Advanced Materials, 2014, 26, 8041-8045.	21.0	120
147	Metallic Photonic Crystal Absorber-Emitter for Efficient Spectral Control in High-Temperature Solar Thermophotovoltaics. Advanced Energy Materials, 2014, 4, 1400334.	19.5	230
148	How Coalescing Droplets Jump. ACS Nano, 2014, 8, 10352-10362.	14.6	304
149	Application of the Kirchhoff Transform to Thermal Spreading Problems With Convection Boundary Conditions. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 408-420.	2.5	47
150	Analytical Solution for Temperature Rise in Complex Multilayer Structures With Discrete Heat Sources. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 817-830.	2.5	62
151	Effect of Hydrophilic Defects on Water Transport in MFI Zeolites. Langmuir, 2014, 30, 6446-6453.	3.5	53
152	Optimization of adsorption processes for climate control and thermal energy storage. International Journal of Heat and Mass Transfer, 2014, 77, 288-300.	4.8	54
153	Ostwald Ripening During Freezing on Scalable Superhydrophobic Surfaces. Journal of Heat Transfer, 2014, 136, .	2.1	1
154	Photonic Crystals: Enabling Ideal Selective Solar Absorption with 2D Metallic Dielectric Photonic Crystals (Adv. Mater. 47/2014). Advanced Materials, 2014, 26, 7922-7922.	21.0	2
155	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
156	Thermal pulse energy harvesting. Energy, 2013, 57, 632-640.	8.8	29
157	Electrostatic charging of jumping droplets. Nature Communications, 2013, 4, 2517.	12.8	201
158	Non-wetting droplets on hot superhydrophilic surfaces. Nature Communications, 2013, 4, 2518.	12.8	129
159	Experiment and modeling of microstructured capillary wicks for thermal management of electronics. , 2013, , .		6
160	Jumping-Droplet-Enhanced Condensation on Scalable Superhydrophobic Nanostructured Surfaces. Nano Letters, 2013, 13, 179-187.	9.1	950
161	Pulsed evaporative transient thermometry for temporally-resolved thermal measurements. International Journal of Heat and Mass Transfer, 2013, 67, 147-152.	4.8	0
162	Negative pressures in nanoporous membranes for thin film evaporation. Applied Physics Letters, 2013, 102, .	3.3	82

#	ARTICLE	IF	CITATIONS
163	Wettability of Graphene. Nano Letters, 2013, 13, 1509-1515.	9.1	400
164	Hierarchically structured surfaces for boiling critical heat flux enhancement. Applied Physics Letters, 2013, 102, .	3.3	216
165	Electric-Field-Enhanced Condensation on Superhydrophobic Nanostructured Surfaces. ACS Nano, 2013, 7, 11043-11054.	14.6	180
166	Thermal Spreading Resistance and Heat Source Temperature in Compound Orthotropic Systems With Interfacial Resistance. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1826-1841.	2.5	64
167	Modeling and Optimization of Superhydrophobic Condensation. Journal of Heat Transfer, 2013, 135, .	2.1	224
168	Condensation heat transfer on superhydrophobic surfaces. MRS Bulletin, 2013, 38, 397-406.	3.5	329
169	Condensation on Superhydrophobic Copper Oxide Nanostructures. Journal of Heat Transfer, 2013, 135, .	2.1	187
170	Immersion Condensation on Oil-Infused Heterogeneous Surfaces for Enhanced Heat Transfer. Scientific Reports, 2013, 3, 1988.	3.3	222
171	Design and fabrication of magnetically tunable microstructured surfaces. , 2013, , .		0
172	Biotemplated hierarchical surfaces and the role of dual length scales on the repellency of impacting droplets. Applied Physics Letters, 2012, 100, .	3.3	87
173	Effect of Droplet Morphology on Growth Dynamics and Heat Transfer during Condensation on Superhydrophobic Nanostructured Surfaces. ACS Nano, 2012, 6, 1776-1785.	14.6	514
174	Unified Model for Contact Angle Hysteresis on Heterogeneous and Superhydrophobic Surfaces. Langmuir, 2012, 28, 15777-15788.	3.5	127
175	Numerical investigation of liquid flow with phase change nanoparticles in microchannels. International Journal of Heat and Fluid Flow, 2012, 38, 159-167.	2.4	29
176	Design of an Integrated Loop Heat Pipe Air-Cooled Heat Exchanger for High Performance Electronics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1637-1648.	2.5	53
177	Scaling the performance of an air-cooled loop heat pipe with the addition of modular condensers. , 2012, , .		1
178	Condensation on Superhydrophobic Surfaces: The Role of Local Energy Barriers and Structure Length Scale. Langmuir, 2012, 28, 14424-14432.	3.5	347
179	Graphene cleans up water. Nature Nanotechnology, 2012, 7, 552-554.	31.5	209
180	Structured surfaces for enhanced pool boiling heat transfer. Applied Physics Letters, 2012, 100, .	3.3	440

#	ARTICLE	IF	CITATIONS
181	Analytical model for the design of volumetric solar flow receivers. International Journal of Heat and Mass Transfer, 2012, 55, 556-564.	4.8	101
182	Optimization of nanofluid volumetric receivers for solar thermal energy conversion. Solar Energy, 2012, 86, 253-265.	6.1	368
183	Microscale Liquid Dynamics and the Effect on Macroscale Propagation in Pillar Arrays. Langmuir, 2011, 27, 10360-10364.	3.5	41
184	Modeling and optimization of hybrid solar thermoelectric systems with thermosyphons. Solar Energy, 2011, 85, 2843-2855.	6.1	100
185	Nanostructured materials for water desalination. Nanotechnology, 2011, 22, 292001.	2.6	543
186	Enhancement of convective heat transfer in an air-cooled heat exchanger using interdigitated impeller blades. International Journal of Heat and Mass Transfer, 2011, 54, 4549-4559.	4.8	12
187	Pulsed Evaporative Transient Thermometry on isolated microstructures. , 2011, , .		0
188	Uni-directional liquid spreading on asymmetric nanostructured surfaces. Nature Materials, 2010, 9, 413-417.	27.5	473
189	Prediction and Optimization of Liquid Propagation in Micropillar Arrays. Langmuir, 2010, 26, 15070-15075.	3.5	164
190	Multilayer liquid spreading on superhydrophilic nanostructured surfaces. Applied Physics Letters, 2009, 94, .	3.3	29
191	Droplet mixing using electrically tunable superhydrophobic nanostructured surfaces. Microfluidics and Nanofluidics, 2009, 7, 137-140.	2.2	21
192	Design of a Microbreather for Two-Phase Microchannel Heat Sinks. Nanoscale and Microscale Thermophysical Engineering, 2009, 13, 151-164.	2.6	10
193	Reversible Wetting~Dewetting Transitions on Electrically Tunable Superhydrophobic Nanostructured Surfaces. Langmuir, 2007, 23, 9128-9133.	3.5	251
194	A hybrid method for bubble geometry reconstruction in two-phase microchannels. Experiments in Fluids, 2006, 40, 847-858.	2.4	14
195	Phase change phenomena in silicon microchannels. International Journal of Heat and Mass Transfer, 2005, 48, 1572-1582.	4.8	189