Evelyn N Wang

List of Publications by Year in Descending Order

183 papers	12,809 citations	54 h-index	111 g-index
201 ext. papers	15,457 ext. citations	9.3 avg, IF	6.95 L-index

#	Paper	IF	Citations
183	Kinetics of Sorption in Hygroscopic Hydrogels.. *Nano Letters*, **2022**,	11.5	6
182	Alteration of pool boiling heat transfer on metallic surfaces by in situ oxidation. *International Journal of Heat and Mass Transfer*, **2022**, 185, 122320	4.9	0
181	Boiling crisis due to bubble interactions. *International Journal of Heat and Mass Transfer*, **2022**, 182, 121904	4.9	4
180	Highly efficient and salt rejecting solar evaporation via a wick-free confined water layer.. *Nature Communications*, **2022**, 13, 849	17.4	7
179	Thermophotovoltaic efficiency of 40.. *Nature*, **2022**, 604, 287-291	50.4	13
178	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	4.9	0
177	Zinc sulfide-pigmented polyethylene aerogel covers for daytime radiative cooling. *Journal of Photonics for Energy*, **2021**, 11,	1.2	2
176	Unified descriptor for enhanced critical heat flux during pool boiling of hemi-wicking surfaces. *International Journal of Heat and Mass Transfer*, **2021**, 122189	4.9	2
175	Numerical validation of the dusty-gas model for binary diffusion in low aspect ratio capillaries. *Physics of Fluids*, **2021**, 33, 121701	4.4	2
174	Rational Fabrication of Nano-to-Microsphere Polycrystalline Opals Using Slope Self-Assembly. *Langmuir*, **2021**, 37, 12568-12576	4	2
173	Microtube Surfaces for the Simultaneous Enhancement of Efficiency and Critical Heat Flux during Pool Boiling. *ACS Applied Materials & Interfaces*, **2021**, 13, 12629-12635	9.5	6
172	Bubble growth and departure modes on wettable/non-wettable porous foams in alkaline water splitting. *Joule*, **2021**, 5, 887-900	27.8	15
171	Dual-Stage Atmospheric Water Harvesting Device for Scalable Solar-Driven Water Production. *Joule* , **2021**, 5, 166-182	27.8	54
170	A unified relationship between bubble departure frequency and diameter during saturated nucleate pool boiling. *International Journal of Heat and Mass Transfer*, **2021**, 165, 120640	4.9	5
169	Solar-Driven Soft Robots. *Advanced Science*, **2021**, 8, 2004235	13.6	8
168	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. *Nano Letters*, **2021**, 21, 8160-8165	11.5	0
167	Toward Optimal Heat Transfer of 2D-3D Heterostructures van der Waals Binding Effects. *ACS Applied Materials & Interfaces*, **2021**, 13, 46055-46064	9.5	5

166	Passive, high-efficiency thermally-localized solar desalination. *Energy and Environmental Science*, **2021**, 14, 1771-1793	35.4	32
165	Nucleation Site Distribution Probed by Phase-Enhanced Environmental Scanning Electron Microscopy. *Cell Reports Physical Science*, **2020**, 1, 100262	6.1	6
164	Wide-Field Magnetic Field and Temperature Imaging Using Nanoscale Quantum Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 26525-26533	9.5	18
163	Heat transfer suppression by suspended droplets on microstructured surfaces. *Applied Physics Letters*, **2020**, 116, 233703	3.4	8
162	Effects of airborne hydrocarbon adsorption on pool boiling heat transfer. *Applied Physics Letters*, **2020**, 116, 253702	3.4	7
161	High Heat Flux Evaporation of Low Surface Tension Liquids from Nanoporous Membranes. *ACS Applied Materials & Interfaces*, **2020**, 12, 7232-7238	9.5	23
160	Ultrahigh-efficiency desalination via a thermally-localized multistage solar still. *Energy and Environmental Science*, **2020**, 13, 830-839	35.4	153
159	Modeling and performance analysis of high-efficiency thermally-localized multistage solar stills. *Applied Energy*, **2020**, 266, 114864	10.7	17
158	Criteria for antibubble formation from drop pairs impinging on a free surface. *Physical Review Fluids* , **2020**, 5,	2.8	5
157	Jumping droplet condensation in internal convective vapor flow. *International Journal of Heat and Mass Transfer*, **2020**, 163, 120398	4.9	2
156	Capillary-fed, thin film evaporation devices. *Journal of Applied Physics*, **2020**, 128, 130901	2.5	20
155	A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. *Joule*, **2020**, 4, 2733-2745	27.8	29
154	Polymer Infused Porous Surfaces for Robust, Thermally Conductive, Self-Healing Coatings for Dropwise Condensation. *ACS Nano*, **2020**, 14, 14878-14886	16.7	17
153	Transport-Based Modeling of Bubble Nucleation on Gas Evolving Electrodes. *Langmuir*, **2020**, 36, 15112-15118	4	4
152	Thermodynamic analysis and optimization of adsorption-based atmospheric water harvesting. *International Journal of Heat and Mass Transfer*, **2020**, 161, 120253	4.9	20
151	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	4.9	10
150	Framework for analyzing the thermoreflectance spectra of metal thermal transducers with spectrally tunable time-domain thermoreflectance. *Journal of Applied Physics*, **2020**, 128, 055107	2.5	2
149	Quasi-Newtonian Environmental Scanning Electron Microscopy (QN-ESEM) for Monitoring Material Dynamics in High-Pressure Gaseous Environments. *Advanced Science*, **2020**, 7, 2001268	13.6	2

148	Stefan flow induced natural convection suppression on high-flux evaporators. *International Communications in Heat and Mass Transfer*, **2020**, 110, 104255	5.8	7
147	Manipulating Water and Heat with Nanoengineered Surfaces. *Women in Engineering and Science*, **2020**, 85-99	0.5	
146	The potential for atmospheric water harvesting to accelerate household access to safe water. *Lancet Planetary Health, The*, **2020**, 4, e91-e92	9.8	13
145	Plasmonic absorption-induced haze suppression in random scattering media. *Applied Physics Letters* , **2019**, 114, 251102	3.4	0
144	Harnessing Heat Beyond 200 °C from Unconcentrated Sunlight with Nonevacuated Transparent Aerogels. *ACS Nano*, **2019**, 13, 7508-7516	16.7	51
143	A unified relationship for evaporation kinetics at low Mach numbers. *Nature Communications*, **2019**, 10, 2368	17.4	51
142	Thermal Expansion Coefficient of Monolayer Molybdenum Disulfide Using Micro-Raman Spectroscopy. *Nano Letters*, **2019**, 19, 4745-4751	11.5	31
141	Adsorption-Based Atmospheric Water Harvesting: Impact of Material and Component Properties on System-Level Performance. *Accounts of Chemical Research*, **2019**, 52, 1588-1597	24.3	104
140	Size distribution theory for jumping-droplet condensation. *Applied Physics Letters*, **2019**, 114, 163701	3.4	13
139	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	4.9	14
138	High temperature stability of transparent silica aerogels for solar thermal applications. *APL Materials*, **2019**, 7, 081104	5.7	18
137	Theoretical and experimental investigation of haze in transparent aerogels. *Optics Express*, **2019**, 27, A39-A50	3.3	18
136	Bubble nucleation, growth, and departure: A new, dynamic understanding. *International Journal of Heat and Mass Transfer*, **2019**, 145, 118803	4.9	9
135	High-performance subambient radiative cooling enabled by optically selective and thermally insulating polyethylene aerogel. *Science Advances*, **2019**, 5, eaat9480	14.3	136
134	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	1.7	0
133	Embedded Microjets for Thermal Management of High Power-Density Electronic Devices. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2019**, 9, 269-278	1.7	7
132	Enhanced Environmental Scanning Electron Microscopy Using Phase Reconstruction and Its Application in Condensation. *ACS Nano*, **2019**, 13, 1953-1960	16.7	9
131	Jumping Droplets Push the Boundaries of Condensation Heat Transfer. *Joule*, **2018**, 2, 205-207	27.8	24

130	Bioinspired Surfaces for Enhanced Boiling **2018**, 47-71		
129	A Hybrid Electric and Thermal Solar Receiver. *Joule*, **2018**, 2, 962-975	27.8	54
128	Hotspot Thermal Management via Thin-Film Evaporation—Part I: Experimental Characterization. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 88-98	1.7	7
127	Theory of Thermal Time Constants in GaN High-Electron-Mobility Transistors. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 606-620	1.7	13
126	Predicting Surface Tensions of Surfactant Solutions from Statistical Mechanics. *Langmuir*, **2018**, 34, 2386-2395	4	5
125	Heat Transfer Enhancement During Water and Hydrocarbon Condensation on Lubricant Infused Surfaces. *Scientific Reports*, **2018**, 8, 540	4.9	79
124	Effects of millimetric geometric features on dropwise condensation under different vapor conditions. *International Journal of Heat and Mass Transfer*, **2018**, 119, 931-938	4.9	40
123	Hotspot Thermal Management via Thin-Film Evaporation—Part II: Modeling. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 99-112	1.7	4
122	Charging of miniature flat heat pipes. *Heat and Mass Transfer*, **2018**, 54, 3131-3136	2.2	
121	Salt rejection in flow-between capacitive deionization devices. *Desalination*, **2018**, 437, 154-163	10.3	20
120	Gravitationally Driven Wicking for Enhanced Condensation Heat Transfer. *Langmuir*, **2018**, 34, 4658-4664	4	27
119	Precise control of pore hydrophilicity enabled by post-synthetic cation exchange in metal-organic frameworks. *Chemical Science*, **2018**, 9, 3856-3859	9.4	46
118	Adsorption-based atmospheric water harvesting device for arid climates. *Nature Communications*, **2018**, 9, 1191	17.4	227
117	Nanoporous membrane device for ultra high heat flux thermal management. *Microsystems and Nanoengineering*, **2018**, 4, 1	7.7	85
116	Specular side reflectors for high efficiency thermal-to-optical energy conversion. *Optics Express*, **2018**, 26, A462-A479	3.3	5
115	Radiative Thermal Runaway Due to Negative-Differential Thermal Emission Across a Solid-Solid Phase Transition. *Physical Review Applied*, **2018**, 10,	4.3	16
114	Optimization and thermal characterization of uniform silicon micropillar based evaporators. *International Journal of Heat and Mass Transfer*, **2018**, 127, 51-60	4.9	19
113	Multiscale Dynamic Growth and Energy Transport of Droplets during Condensation. *Langmuir*, **2018**, 34, 9085-9095	4	21

112	Passive directional sub-ambient daytime radiative cooling. *Nature Communications*, **2018**, 9, 5001	17.4	106
111	Tunable Metal-Organic Frameworks Enable High-Efficiency Cascaded Adsorption Heat Pumps. *Journal of the American Chemical Society*, **2018**, 140, 17591-17596	16.4	46
110	Toward Condensation-Resistant Omniphobic Surfaces. *ACS Nano*, **2018**, 12, 11013-11021	16.7	36
109	Active fume hood sash height monitoring with audible feedback. *Energy Reports*, **2018**, 4, 645-652	4.6	4
108	Characterization of thin film evaporation in micropillar wicks using micro-Raman spectroscopy. *Applied Physics Letters*, **2018**, 113, 163701	3.4	9
107	Suppressing high-frequency temperature oscillations in microchannels with surface structures. *Applied Physics Letters*, **2017**, 110, 033501	3.4	24
106	High temperature annealing for structural optimization of silica aerogels in solar thermal applications. *Journal of Non-Crystalline Solids*, **2017**, 462, 72-77	3.9	40
105	Experimental Characterization of the Thermal Time Constants of GaN HEMTs Via Micro-Raman Thermometry. *IEEE Transactions on Electron Devices*, **2017**, 64, 2121-2128	2.9	27
104	Water harvesting from air with metal-organic frameworks powered by natural sunlight. *Science*, **2017**, 356, 430-434	33.3	800
103	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	16.8	178
102	Nanoengineered materials for liquid–vapour phase-change heat transfer. *Nature Reviews Materials*, **2017**, 2,	73.3	277
101	A thermophysical battery for storage-based climate control. *Applied Energy*, **2017**, 189, 31-43	10.7	30
100	Parametric study of thin film evaporation from nanoporous membranes. *Applied Physics Letters*, **2017**, 111, 171603	3.4	36
99	An Ultrathin Nanoporous Membrane Evaporator. *Nano Letters*, **2017**, 17, 6217-6220	11.5	39
98	Combined selective emitter and filter for high performance incandescent lighting. *Applied Physics Letters*, **2017**, 111, 094103	3.4	5
97	Coexistence of Pinning and Moving on a Contact Line. *Langmuir*, **2017**, 33, 8970-8975	4	17
96	Response to Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight". *Science*, **2017**, 358,	33.3	2
95	Response to Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight". *Science*, **2017**, 358,	33.3	13

94	Design of Lubricant Infused Surfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 42383-42392	9.5	91
93	Enhanced water transport and salt rejection through hydrophobic zeolite pores. *Nanotechnology*, **2017**, 28, 505703	3.4	9
92	Simultaneous measurement of temperature, stress, and electric field in GaN HEMTs with micro-Raman spectroscopy. *Review of Scientific Instruments*, **2017**, 88, 113111	1.7	30
91	Athermal operation of multi-section slotted tunable lasers. *Optics Express*, **2017**, 25, 14414-14426	3.3	8
90	Optimization and thermal characterization of uniform micropillar based silicon evaporator in advanced vapor chambers **2016**,		1
89	Three-dimensional graphene enhanced heat conduction of porous crystals. *Journal of Porous Materials*, **2016**, 23, 1647-1652	2.4	12
88	Detailed thermal resistance model for characterization of the overall effective thermal conductivity of a flat heat pipe **2016**,		0
87	Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes. *Nature Communications*, **2016**, 7, 12762	17.4	64
86	Characterization of Adsorption Enthalpy of Novel Water-Stable Zeolites and Metal-Organic Frameworks. *Scientific Reports*, **2016**, 6, 19097	4.9	44
85	Design of micropillar wicks for thin-film evaporation. *International Journal of Heat and Mass Transfer*, **2016**, 101, 280-294	4.9	71
84	Prediction and Characterization of Dry-out Heat Flux in Micropillar Wick Structures. *Langmuir*, **2016**, 32, 1920-7	4	44
83	Dynamic Evolution of the Evaporating Liquid-Vapor Interface in Micropillar Arrays. *Langmuir*, **2016**, 32, 519-26	4	16
82	RECENT ADVANCES IN ADSORPTION-BASED HEATING AND COOLING SYSTEMS. *Annual Review of Heat Transfer*, **2016**, 19, 199-239	2.7	2
81	Methylammonium Bismuth Iodide as a Lead-Free, Stable Hybrid Organic-Inorganic Solar Absorber. *Chemistry - A European Journal*, **2016**, 22, 2605-10	4.8	253
80	Porous Cu Nanowire Aerosponges from One-Step Assembly and their Applications in Heat Dissipation. *Advanced Materials*, **2016**, 28, 1413-9	24	85
79	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	1.7	40
78	Controlled Wetting in Nanoporous Membranes for Thin Film Evaporation. *Journal of Heat Transfer*, **2016**, 138,	1.8	7
77	Experiments on the ultrathin silicon vapor chamber for enhanced heat transfer performance **2016**,		3

76	Surface Structure Enhanced Microchannel Flow Boiling. *Journal of Heat Transfer*, **2016**, 138,	1.8	96
75	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. *AIP Advances*, **2016**, 6, 121903	1.5	28
74	Electric field dependence of optical phonon frequencies in wurtzite GaN observed in GaN high electron mobility transistors. *Journal of Applied Physics*, **2016**, 120, 155104	2.5	8
73	Modeling silica aerogel optical performance by determining its radiative properties. *AIP Advances*, **2016**, 6, 025123	1.5	31
72	Contributed Review: Experimental characterization of inverse piezoelectric strain in GaN HEMTs via micro-Raman spectroscopy. *Review of Scientific Instruments*, **2016**, 87, 061501	1.7	9
71	Electrically induced drop detachment and ejection. *Physics of Fluids*, **2016**, 28, 022101	4.4	37
70	Electrowetting-on-dielectric actuation of a vertical translation and angular manipulation stage. *Applied Physics Letters*, **2016**, 109, 244102	3.4	15
69	Spectral splitting optimization for high-efficiency solar photovoltaic and thermal power generation. *Applied Physics Letters*, **2016**, 109, 243904	3.4	20
68	Transient thermal dynamics of GaN HEMTs **2016**,		8
67	Thermal battery for portable climate control. *Applied Energy*, **2015**, 149, 104-116	10.7	43
66	Scalable graphene coatings for enhanced condensation heat transfer. *Nano Letters*, **2015**, 15, 2902-9	11.5	173
65	In-situ aging microwave heating synthesis of LTA zeolite layer on mesoporous TiO2 coated porous alumina support. *Journal of Crystal Growth*, **2015**, 432, 123-128	1.6	3
64	Turning bubbles on and off during boiling using charged surfactants. *Nature Communications*, **2015**, 6, 8599	17.4	83
63	Concentrating Solar Power. *Chemical Reviews*, **2015**, 115, 12797-838	68.1	298
62	Modeling of Evaporation from Nanopores with Nonequilibrium and Nonlocal Effects. *Langmuir*, **2015**, 31, 9817-24	4	56
61	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	5.3	29
60	Ultrathin planar hematite film for solar photoelectrochemical water splitting. *Optics Express*, **2015**, 23, A1491-8	3.3	6
59	Dimensionality effects of carbon-based thermal additives for microporous adsorbents. *Materials and Design*, **2015**, 85, 520-526	8.1	17

58	A nanophotonic solar thermophotovoltaic device. *Nature Nanotechnology*, **2014**, 9, 126-30	28.7	543
57	Framework water capacity and infiltration pressure of MFI zeolites. *Microporous and Mesoporous Materials*, **2014**, 190, 84-91	5.3	17
56	One-pot Solvothermal Synthesis of Well-ordered Layered Sodium Aluminoalcoholate Complex: A Useful Precursor for the Preparation of Porous AlO Particles. *CrystEngComm*, **2014**, 16, 2950-2958	3.3	5
55	Real-time manipulation with magnetically tunable structures. *Advanced Materials*, **2014**, 26, 6442-6	24	86
54	Jumping-droplet electrostatic energy harvesting. *Applied Physics Letters*, **2014**, 105, 013111	3.4	131
53	High-resolution liquid patterns via three-dimensional droplet shape control. *Nature Communications*, **2014**, 5, 4975	17.4	70
52	Enabling ideal selective solar absorption with 2D metallic dielectric photonic crystals. *Advanced Materials*, **2014**, 26, 8041-5	24	98
51	Metallic Photonic Crystal Absorber-Emitter for Efficient Spectral Control in High-Temperature Solar Thermophotovoltaics. *Advanced Energy Materials*, **2014**, 4, 1400334	21.8	171
50	How coalescing droplets jump. *ACS Nano*, **2014**, 8, 10352-62	16.7	239
49	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	1.7	32
48	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	1.7	41
47	Effect of hydrophilic defects on water transport in MFI zeolites. *Langmuir*, **2014**, 30, 6446-53	4	40
46	Optimization of adsorption processes for climate control and thermal energy storage. *International Journal of Heat and Mass Transfer*, **2014**, 77, 288-300	4.9	42
45	Ostwald Ripening During Freezing on Scalable Superhydrophobic Surfaces. *Journal of Heat Transfer*, **2014**, 136,	1.8	1
44	Photonic Crystals: Enabling Ideal Selective Solar Absorption with 2D Metallic Dielectric Photonic Crystals (Adv. Mater. 47/2014). *Advanced Materials*, **2014**, 26, 7922-7922	24	1
43	Jumping Droplet Electrostatic Charging and Effect on Vapor Drag. *Journal of Heat Transfer*, **2014**, 136,	1.8	18
42	Experimental characterization of Si micropillar based evaporator for advanced vapor chambers **2014**,		3
41	Effect of hydrocarbon adsorption on the wettability of rare earth oxide ceramics. *Applied Physics Letters*, **2014**, 105, 011601	3.4	119

40	Designed single-step synthesis, structure, and derivative textural properties of well-ordered layered penta-coordinate silicon alcoholate complexes. *Chemistry - A European Journal*, **2014**, 20, 6315-23	4.8	3
39	Focusing of phase change microparticles for local heat transfer enhancement in laminar flows. *International Journal of Heat and Mass Transfer*, **2013**, 56, 380-389	4.9	24
38	Thermal pulse energy harvesting. *Energy*, **2013**, 57, 632-640	7.9	25
37	Electrostatic charging of jumping droplets. *Nature Communications*, **2013**, 4, 2517	17.4	165
36	Non-wetting droplets on hot superhydrophilic surfaces. *Nature Communications*, **2013**, 4, 2518	17.4	106
35	Experiment and modeling of microstructured capillary wicks for thermal management of electronics **2013**,		4
34	Jumping-droplet-enhanced condensation on scalable superhydrophobic nanostructured surfaces. *Nano Letters*, **2013**, 13, 179-87	11.5	766
33	Pulsed evaporative transient thermometry for temporally-resolved thermal measurements. *International Journal of Heat and Mass Transfer*, **2013**, 67, 147-152	4.9	
32	Negative pressures in nanoporous membranes for thin film evaporation. *Applied Physics Letters*, **2013**, 102, 123103	3.4	72
31	Wettability of graphene. *Nano Letters*, **2013**, 13, 1509-15	11.5	326
30	Hierarchically structured surfaces for boiling critical heat flux enhancement. *Applied Physics Letters*, **2013**, 102, 151602	3.4	170
29	Electric-field-enhanced condensation on superhydrophobic nanostructured surfaces. *ACS Nano*, **2013**, 7, 11043-54	16.7	144
28	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	1.7	45
27	Modeling and Optimization of Superhydrophobic Condensation. *Journal of Heat Transfer*, **2013**, 135,	1.8	166
26	Condensation heat transfer on superhydrophobic surfaces. *MRS Bulletin*, **2013**, 38, 397-406	3.2	274
25	Condensation on Superhydrophobic Copper Oxide Nanostructures. *Journal of Heat Transfer*, **2013**, 135,	1.8	147
24	Immersion condensation on oil-infused heterogeneous surfaces for enhanced heat transfer. *Scientific Reports*, **2013**, 3, 1988	4.9	179
23	Optimization of nanofluid volumetric receivers for solar thermal energy conversion. *Solar Energy*, **2012**, 86, 253-265	6.8	326

22	Effect of droplet morphology on growth dynamics and heat transfer during condensation on superhydrophobic nanostructured surfaces. *ACS Nano*, **2012**, 6, 1776-85	16.7	417
21	Unified model for contact angle hysteresis on heterogeneous and superhydrophobic surfaces. *Langmuir*, **2012**, 28, 15777-88	4	96
20	Numerical investigation of liquid flow with phase change nanoparticles in microchannels. *International Journal of Heat and Fluid Flow*, **2012**, 38, 159-167	2.4	17
19	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	1.7	32
18	Scaling the performance of an air-cooled loop heat pipe with the addition of modular condensers **2012**,		1
17	Condensation on superhydrophobic surfaces: the role of local energy barriers and structure length scale. *Langmuir*, **2012**, 28, 14424-32	4	284
16	Structured surfaces for enhanced pool boiling heat transfer. *Applied Physics Letters*, **2012**, 100, 241603	3.4	343
15	Analytical model for the design of volumetric solar flow receivers. *International Journal of Heat and Mass Transfer*, **2012**, 55, 556-564	4.9	86
14	Biotemplated hierarchical surfaces and the role of dual length scales on the repellency of impacting droplets. *Applied Physics Letters*, **2012**, 100, 263701	3.4	73
13	Modeling and optimization of hybrid solar thermoelectric systems with thermosyphons. *Solar Energy*, **2011**, 85, 2843-2855	6.8	86
12	Nanostructured materials for water desalination. *Nanotechnology*, **2011**, 22, 292001	3.4	465
11	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	4.9	10
10	Microscale liquid dynamics and the effect on macroscale propagation in pillar arrays. *Langmuir*, **2011**, 27, 10360-4	4	30
9	Uni-directional liquid spreading on asymmetric nanostructured surfaces. *Nature Materials*, **2010**, 9, 413-7	27	413
8	Prediction and optimization of liquid propagation in micropillar arrays. *Langmuir*, **2010**, 26, 15070-5	4	117
7	Multilayer liquid spreading on superhydrophilic nanostructured surfaces. *Applied Physics Letters*, **2009**, 94, 193104	3.4	22
6	Droplet mixing using electrically tunable superhydrophobic nanostructured surfaces. *Microfluidics and Nanofluidics*, **2009**, 7, 137-140	2.8	18
5	Design of a Microbreather for Two-Phase Microchannel Heat Sinks. *Nanoscale and Microscale Thermophysical Engineering*, **2009**, 13, 151-164	3.7	8

4	Reversible wetting-dewetting transitions on electrically tunable superhydrophobic nanostructured surfaces. *Langmuir*, **2007**, 23, 9128-33	4	231
3	A hybrid method for bubble geometry reconstruction in two-phase microchannels. *Experiments in Fluids*, **2006**, 40, 847-858	2.5	12
2	Phase change phenomena in silicon microchannels. *International Journal of Heat and Mass Transfer*, **2005**, 48, 1572-1582	4.9	138
1	Effect of Al2O3 ALD coating on thermal stability of silica aerogel. *Journal of Porous Materials*,1	2.4	0