Ali Kosar

List of Publications by Year in Descending Order

168 papers	4,275 citations	30 h-index	60 g-index
208 ext. papers	5,320 ext. citations	3.6 avg, IF	6.1 L-index

#	Paper	IF	Citations
168	Computational and experimental investigations on the evaporation of single and multiple elongated droplets. *Chemical Engineering Journal Advances*, **2022**, 10, 100255	3.6	2
167	Boiling at subatmospheric pressures on hydrophobic surface: Bubble dynamics and heat transfer. *International Journal of Thermal Sciences*, **2022**, 173, 107423	4.1	2
166	Graphene-Coated Sintered Porous Copper Surfaces for Boiling Heat Transfer Enhancement. *Carbon Trends*, **2022**, 100171	0	0
165	Numerical and Experimental Investigation of the Effect of Micro Restriction Geometry on Gas Flows through a Micro Orifice. *Fluids*, **2022**, 7, 151	1.6	
164	Fabrication and flow rate characterization of a DRIE process based valveless piezoelectric micropump. *Journal of Micromechanics and Microengineering*, **2022**, 32, 065004	2	0
163	Chemical effects in hydrodynamic cavitation on a chip□The role of cavitating flow patterns. *Chemical Engineering Journal*, **2022**, 445, 136734	14.7	2
162	On the Effect of Elliptical Pin Fins, Distribution Pin Fins, and Tip Clearance on the Performance of Heat Sinks in Flow Boiling. *Applied Thermal Engineering*, **2022**, 118648	5.8	0
161	Antifreeze Proteins: A Tale of Evolution From Origin to Energy Applications.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 770588	5.8	0
160	Biphilic Surfaces with Optimum Hydrophobic Islands on a Superhydrophobic Background for Dropwise Flow Condensation. *Langmuir*, **2021**, 37, 13567-13575	4	1
159	On cavitation inception and cavitating flow patterns in a multi-orifice microfluidic device with a functional surface. *Physics of Fluids*, **2021**, 33, 032005	4.4	7
158	The effects of baffle configuration and number on inertial mixing in a curved serpentine micromixer: Experimental and numerical study. *Chemical Engineering Research and Design*, **2021**, 168, 490-498	5.5	4
157	Bio-coated surfaces with micro-roughness and micro-porosity: Next generation coatings for enhanced energy efficiency. *Energy*, **2021**, 222, 119959	7.9	6
156	Design and fabrication of a vigorous "cavitation-on-a-chip" device with a multiple microchannel configuration. *Microsystems and Nanoengineering*, **2021**, 7, 44	7.7	4
155	The effect of varying radius of curvature on mixing in elliptical spiral microchannels. *Chemical Engineering and Processing: Process Intensification*, **2021**, 164, 108401	3.7	3
154	Thermal Bioeffect of Hybrid Microfluidic System Used for Particle and Cell Separation **2021**, 321-324		
153	Copper-Based Superhydrophobic Nanostructures for Heat Transfer in Flow Condensation. *ACS Applied Nano Materials*, **2021**, 4, 1719-1732	5.6	7
152	An ecologically friendly process for graphene exfoliation based on the "hydrodynamic cavitation on a chip" concept.. *RSC Advances*, **2021**, 11, 17965-17975	3.7	3

151	Gradient mixed wettability surfaces for enhancing heat transfer in dropwise flow condensation. *International Journal of Heat and Mass Transfer*, **2021**, 179, 121664	4.9	3
150	Review on high heat flux flow boiling of refrigerants and water for electronics cooling. *International Journal of Heat and Mass Transfer*, **2021**, 180, 121787	4.9	3
149	Local Carpet Bombardment of Immobilized Cancer Cells With Hydrodynamic Cavitation. *IEEE Access* , **2021**, 9, 14983-14991	3.5	1
148	Effect of Functional Surfaces with Gradient Mixed Wettability on Flow Boiling in a High Aspect Ratio Microchannel. *Fluids*, **2020**, 5, 239	1.6	4
147	Therapeutic Nanoparticles and Their Targeted Delivery Applications. *Molecules*, **2020**, 25,	4.8	174
146	Pool boiling heat transfer of ferrofluids on structured hydrophilic and hydrophobic surfaces: The effect of magnetic field. *International Journal of Thermal Sciences*, **2020**, 155, 106420	4.1	9
145	Numerical and Experimental Studies on the Effect of Surface Roughness and Ultrasonic Frequency on Bubble Dynamics in Acoustic Cavitation. *Energies*, **2020**, 13, 1126	3.1	10
144	Effect of intensified cavitation using poly(vinyl alcohol) microbubbles on spray atomization characteristics in microscale. *AIP Advances*, **2020**, 10, 025318	1.5	4
143	Direct and indirect thermal applications of hydrodynamic and acoustic cavitation: A review. *Applied Thermal Engineering*, **2020**, 171, 115065	5.8	32
142	Differential Sorting of Microparticles Using Spiral Microchannels with Elliptic Configurations. *Micromachines*, **2020**, 11,	3.3	9
141	Spectrally selective filter design for passive radiative cooling. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 1173	1.7	12
140	Deagglomeration of nanoparticle clusters in a □avitation on chip□device. *AIP Advances*, **2020**, 10, 115204	1.5	
139	Effects of bubble coalescence on pool boiling heat transfer and critical heat flux □A parametric study based on artificial cavity geometry and surface wettability. *International Journal of Heat and Mass Transfer*, **2020**, 147, 118952	4.9	16
138	On the Effect of the Respiratory Droplet Generation Condition on COVID-19 Transmission. *Fluids*, **2020**, 5, 113	1.6	23
137	Modeling of a Passive-Valve Piezoelectric Micro-Pump: A Parametric Study. *Micromachines*, **2020**, 11,	3.3	4
136	An ISFET Sensor-Integrated Micromixer for pH Measurements **2020**,		1
135	The effect of arrangement type and pitch ratio on the performance of micro-pin-fin heat sinks. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 1057-1068	4.1	5
134	Facile hydrodynamic cavitation ON CHIP via cellulose nanofibers stabilized perfluorodroplets inside layer-by-layer assembled SLIPS surfaces. *Chemical Engineering Journal*, **2020**, 382, 122809	14.7	15

133	Influence of Fluid Properties on Intensity of Hydrodynamic Cavitation and Deactivation of Salmonella typhimurium. *Processes*, **2020**, 8, 326	2.9	7
132	Investigation of single air bubble dynamics and the effect of nanoparticles in rectangular minichannels. *Journal of Molecular Liquids*, **2019**, 279, 510-517	6	0
131	Inertial focusing of cancer cell lines in curvilinear microchannels. *Micro and Nano Engineering*, **2019**, 2, 53-63	3.4	14
130	Optimum ratio of hydrophobic to hydrophilic areas of biphilic surfaces in thermal fluid systems involving boiling. *International Journal of Heat and Mass Transfer*, **2019**, 135, 164-174	4.9	54
129	Nanoparticle based induction heating at low magnitudes of magnetic field strengths for breast cancer therapy. *Journal of Magnetism and Magnetic Materials*, **2019**, 483, 169-177	2.8	7
128	A New Method for Intense Cavitation Bubble Generation on Layer-by-Layer Assembled SLIPS. *Scientific Reports*, **2019**, 9, 11600	4.9	11
127	On Cavitation on Chip In Microfluidic Devices With Surface and Sidewall Roughness Elements. *Journal of Microelectromechanical Systems*, **2019**, 28, 890-899	2.5	12
126	Magnetofection of Green Fluorescent Protein Encoding DNA-Bearing Polyethyleneimine-Coated Superparamagnetic Iron Oxide Nanoparticles to Human Breast Cancer Cells. *ACS Omega*, **2019**, 4, 12366-12374	3.9	16
125	Design and implementation of a passive micro flow sensor based on diamagnetic levitation. *Sensors and Actuators A: Physical*, **2019**, 300, 111621	3.9	3
124	Energy harvesting with micro scale hydrodynamic cavitation-thermoelectric generation coupling. *AIP Advances*, **2019**, 9, 105012	1.5	14
123	Engineered Lateral Roughness Element Implementation and Working Fluid Alteration to Intensify Hydrodynamic Cavitating Flows on a Chip for Energy Harvesting. *Micromachines*, **2019**, 11,	3.3	8
122	Inertial Micromixing in Curved Serpentine Micromixers with Different Curve Angles. *Fluids*, **2019**, 4, 204	1.6	4
121	On bubble dynamics in subcooled nucleate boiling on a platinum wire. *International Journal of Thermal Sciences*, **2019**, 137, 1-12	4.1	4
120	Experimental and Numerical Investigation of Inlet Temperature Effect on Convective Heat Transfer of Al2O3/Water Nanofluid Flows in Microtubes. *Heat Transfer Engineering*, **2019**, 40, 738-752	1.7	14
119	Foamlike 3D Graphene Coatings for Cooling Systems Involving Phase Change. *ACS Omega*, **2018**, 3, 2804-2811	3.9	22
118	Hydrodynamic cavitation in microfluidic devices with roughened surfaces. *Journal of Micromechanics and Microengineering*, **2018**, 28, 075016	2	22
117	Wettability alterations and magnetic field effects on the nucleation of magnetic nanofluids: A molecular dynamics simulation. *Journal of Molecular Liquids*, **2018**, 260, 209-220	6	20
116	Biomedical device prototype based on small scale hydrodynamic cavitation. *AIP Advances*, **2018**, 8, 035108	1.5	14

115	Characterization and pressure drop correlation for sprays under the effect of micro scale cavitation. *Experimental Thermal and Fluid Science*, **2018**, 91, 89-102	3	7
114	Entropy Generation Analysis of Laminar Flows of Water-Based Nanofluids in Horizontal Minitubes under Constant Heat Flux Conditions. *Entropy*, **2018**, 20,	2.8	9
113	Inertial focusing of microparticles in curvilinear microchannels with different curvature angles. *Microfluidics and Nanofluidics*, **2018**, 22, 1	2.8	8
112	Numerical investigations on the effect of fin shape and surface roughness on hydrothermal characteristics of slip flows in microchannels with pin fins. *International Journal of Thermal Sciences*, **2018**, 124, 375-386	4.1	15
111	Effect of electrostatic stabilization on thermal radiation transfer in nanosuspensions: Photo-thermal energy conversion applications. *Renewable Energy*, **2018**, 119, 625-640	8.1	12
110	Intensifying cavitating flows in microfluidic devices with poly(vinyl alcohol) (PVA) microbubbles. *Physics of Fluids*, **2018**, 30, 102001	4.4	19
109	Microparticle Inertial Focusing in an Asymmetric Curved Microchannel. *Fluids*, **2018**, 3, 57	1.6	4
108	Review on Heat and Fluid Flow in Micro Pin Fin Heat Sinks under Single-phase and Two-phase Flow Conditions. *Nanoscale and Microscale Thermophysical Engineering*, **2018**, 22, 153-197	3.7	23
107	Experimental studies on ferrofluid pool boiling in the presence of external magnetic force. *Applied Thermal Engineering*, **2018**, 139, 598-608	5.8	15
106	Experimental Study on Subcooled Flow Boiling in Horizontal Microtubes and Effect of Heated Length. *Heat Transfer Engineering*, **2017**, 38, 313-322	1.7	2
105	Hydrodynamic and Thermal Performance of Microchannels With Different Staggered Arrangements of Cylindrical Micro Pin Fins. *Journal of Heat Transfer*, **2017**, 139,	1.8	14
104	Experimental investigation on convective heat transfer of non-Newtonian flows of Xanthan gum solutions in microtubes. *Experimental Thermal and Fluid Science*, **2017**, 85, 305-312	3	9
103	Experimental and numerical investigations on spray structure under the effect of cavitation phenomenon in a microchannel. *Journal of Mechanical Science and Technology*, **2017**, 31, 235-247	1.6	19
102	The effect of nanoparticle type and nanoparticle mass fraction on heat transfer enhancement in pool boiling. *International Journal of Heat and Mass Transfer*, **2017**, 109, 157-166	4.9	40
101	Subcooled flow boiling heat transfer enhancement using polyperfluorodecylacrylate (pPFDA) coated microtubes with different coating thicknesses. *Experimental Thermal and Fluid Science*, **2017**, 86, 130-140	3	6
100	Pool Boiling Heat Transfer Characteristics of Inclined pHEMA-Coated Surfaces. *Journal of Heat Transfer*, **2017**, 139,	1.8	12
99	Passive radiative cooling design with broadband optical thin-film filters. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 198, 179-186	2.1	93
98	Energy Harvesting in Microscale with Cavitating Flows. *ACS Omega*, **2017**, 2, 6870-6877	3.9	21

97	Changing bubble dynamics in subcooled boiling with TiO 2 nanoparticles on a platinum wire. *Journal of Molecular Liquids*, **2017**, 242, 456-470	6	3
96	Boiling heat transfer performance enhancement using micro and nano structured surfaces for high heat flux electronics cooling systems. *Applied Thermal Engineering*, **2017**, 127, 484-498	5.8	30
95	Subcooled flow boiling heat transfer of Al2O3/water nanofluids in horizontal microtubes and the effect of surface characteristics and nanoparticle deposition. *Applied Thermal Engineering*, **2017**, 127, 536-546	5.8	16
94	Stick and oscillatory behavior of bubbles due to TiO2 nanoparticle coating in subcooled pool boiling on a wire. *Applied Physics Letters*, **2017**, 111, 061601	3.4	3
93	The effect of asymmetry on micromixing in curvilinear microchannels. *Microfluidics and Nanofluidics* , **2017**, 21, 1	2.8	13
92	Effect of injection angle, density ratio, and viscosity on droplet formation in a microfluidic T-junction. *Theoretical and Applied Mechanics Letters*, **2017**, 7, 243-251	1.8	34
91	Surface modifications for phase change cooling applications via crenarchaeon Sulfolobus solfataricus P2 bio-coatings. *Scientific Reports*, **2017**, 7, 17891	4.9	8
90	Design, Prototyping and Control of a Flexible Cystoscope for Biomedical Applications. *IOP Conference Series: Materials Science and Engineering*, **2017**, 224, 012050	0.4	1
89	Pool boiling heat transfer characteristics of non-Newtonian Xanthan gum solutions. *Experimental Thermal and Fluid Science*, **2016**, 70, 77-84	3	9
88	A new visual tracking method for the analysis and characterization of jet flow. *Flow Measurement and Instrumentation*, **2016**, 51, 55-67	2.2	5
87	Review on Lithotripsy and Cavitation in Urinary Stone Therapy. *IEEE Reviews in Biomedical Engineering*, **2016**, 9, 264-83	6.4	13
86	Cavitating nozzle flows in micro- and minichannels under the effect of turbulence. *Journal of Mechanical Science and Technology*, **2016**, 30, 2565-2581	1.6	17
85	Experimental Evidence and Theoretical Analysis of Nanobubble Stability Within Graphene Nanoscrolls. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 6425-31	1.3	1
84	Numerical modeling of convective heat transfer of thermally developing nanofluid flows in a horizontal microtube. *International Journal of Thermal Sciences*, **2016**, 109, 54-69	4.1	24
83	Numerical and experimental investigation on the effects of diameter and length on high mass flux subcooled flow boiling in horizontal microtubes. *International Journal of Heat and Mass Transfer*, **2016**, 92, 824-837	4.9	27
82	Convective heat transfer of non-Newtonian power-law slip flows and plug flows with variable thermophysical properties in parallel-plate and circular microchannels. *International Journal of Thermal Sciences*, **2016**, 100, 155-168	4.1	13
81	IBMPFD Disease-Causing Mutant VCP/p97 Proteins Are Targets of Autophagic-Lysosomal Degradation. *PLoS ONE*, **2016**, 11, e0164864	3.7	22
80	MIR376 family and cancer. *Histology and Histopathology*, **2016**, 31, 841-55	1.4	11

79	Single Droplet Tracking in Jet Flow. *Lecture Notes in Computer Science*, **2016**, 415-422	0.9	1
78	Increasing the stability of nanofluids with cavitating flows in micro orifices. *Applied Physics Letters*, **2016**, 109, 104101	3.4	9
77	Enhancemet of flow boiling heat transfer in pHEMA/pPFDA coated microtubes with longitudinal variations in wettability. *AIP Advances*, **2016**, 6, 035212	1.5	8
76	Subcooled Flow Boiling Over Microstructured Plates In Rectangular Minichannels. *Nanoscale and Microscale Thermophysical Engineering*, **2016**, 20, 173-190	3.7	16
75	Inertial Focusing of Microparticles in Curvilinear Microchannels. *Scientific Reports*, **2016**, 6, 38809	4.9	26
74	Hydrodynamic and Thermal Performance of Microchannels With Different In-Line Arrangements of Cylindrical Micropin Fins. *Journal of Heat Transfer*, **2016**, 138,	1.8	19
73	Visualization of microscale cavitating flow regimes via particle shadow sizing imaging and vision based estimation of the cone angle. *Experimental Thermal and Fluid Science*, **2016**, 78, 322-333	3	19
72	Investigation of change in surface morphology of heated surfaces upon pool boiling of magnetic fluids under magnetic actuation. *Materials Research Express*, **2016**, 3, 096102	1.7	10
71	The Effect of Micro Pin-Fin Shape on Thermal and Hydraulic Performance of Micro Pin-Fin Heat Sinks. *Heat Transfer Engineering*, **2015**, 36, 1447-1457	1.7	60
70	Convective heat transfer and second law analysis of non-Newtonian fluid flows with variable thermophysical properties in circular channels. *International Communications in Heat and Mass Transfer*, **2015**, 60, 21-31	5.8	18
69	Modeling of ferrofluid magnetic actuation with dynamic magnetic fields in small channels. *Microfluidics and Nanofluidics*, **2015**, 18, 447-460	2.8	16
68	Matrix Metalloproteinases 2 and 9 Polymorphism in Patients With Myeloproliferative Diseases: A STROBE-Compliant Observational Study. *Medicine (United States)*, **2015**, 94, e732	1.8	9
67	Assessment of Probe-to-Specimen Distance Effect in Kidney Stone Treatment With Hydrodynamic Cavitation. *Journal of Medical Devices, Transactions of the ASME*, **2015**, 9,	1.3	2
66	Visualization and image processing of spray structure under the effect of cavitation phenomenon. *Journal of Physics: Conference Series*, **2015**, 656, 012115	0.3	5
65	Effect of Varying Magnetic Fields on Targeted Gene Delivery of Nucleic Acid-Based Molecules. *Annals of Biomedical Engineering*, **2015**, 43, 2816-26	4.7	14
64	Vision based cone angle estimation of bubbly cavitating flow and analysis of scattered bubbles using micro imaging techniques **2015**,		1
63	Visualization of Spray Structure at the Outlet of the Micro Orifices **2015**,		2
62	Pressure drop and heat transfer characteristics of nanofluids in horizontal microtubes under thermally developing flow conditions. *Experimental Thermal and Fluid Science*, **2015**, 67, 37-47	3	27

61	Pool boiling and flow boiling on micro- and nanostructured surfaces. *Experimental Thermal and Fluid Science*, **2015**, 63, 45-73	3	131
60	Power reclamation efficiency of a miniature energy-harvesting device using external fluid flows. *International Journal of Energy Research*, **2014**, 38, 1318-1330	4.5	4
59	Effect of silicon nanorod length on horizontal nanostructured plates in pool boiling heat transfer with water. *International Journal of Thermal Sciences*, **2014**, 82, 111-121	4.1	43
58	Convective heat transfer and entropy generation analysis on Newtonian and non-Newtonian fluid flows between parallel-plates under slip boundary conditions. *International Journal of Heat and Mass Transfer*, **2014**, 70, 664-673	4.9	70
57	Heat transfer characteristics of plug flows with temperature-jump boundary conditions in parallel-plate channels and concentric annuli. *International Journal of Thermal Sciences*, **2014**, 84, 252-259	4.1	11
56	Anticancer use of nanoparticles as nucleic acid carriers. *Journal of Biomedical Nanotechnology*, **2014** , 10, 1751-83	4	16
55	The Effect of Nanostructure Distribution on Subcooled Boiling Heat Transfer Enhancement over Nanostructured Plates Integrated Into a Rectangular Channel. *Nanoscale and Microscale Thermophysical Engineering*, **2014**, 18, 313-328	3.7	5
54	Flow Boiling Enhancement in Microtubes With Crosslinked pHEMA Coatings and the Effect of Coating Thickness. *Journal of Heat Transfer*, **2014**, 136,	1.8	21
53	Experimental Study on Convective Heat Transfer Performance of Iron Oxide Based Ferrofluids in Microtubes. *Journal of Thermal Science and Engineering Applications*, **2014**, 6,	1.9	9
52	The effects of inlet restriction and tube size on boiling instabilities and detection of resulting premature critical heat flux in microtubes using data analysis. *Applied Thermal Engineering*, **2014**, 65, 575-587	5.8	18
51	Hydrodynamic cavitation kills prostate cells and ablates benign prostatic hyperplasia tissue. *Experimental Biology and Medicine*, **2013**, 238, 1242-50	3.7	12
50	Thermally Developing Single-Phase Flows in Microtubes. *Journal of Heat Transfer*, **2013**, 135,	1.8	3
49	High mass flux flow boiling and critical heat flux in microscale. *International Journal of Thermal Sciences*, **2013**, 65, 70-78	4.1	26
48	Boiling heat transfer enhancement of magnetically actuated nanofluids. *Applied Physics Letters*, **2013**, 102, 163107	3.4	17
47	Submerged jet impingement cooling using nanostructured plates. *International Journal of Heat and Mass Transfer*, **2013**, 59, 414-422	4.9	10
46	Boiling heat transfer enhancement in mini/microtubes via polyhydroxyethylmethacrylate (pHEMA) coatings on inner microtube walls at high mass fluxes. *Journal of Micromechanics and Microengineering*, **2013**, 23, 115017	2	19
45	Subcooled Flow Boiling Over Nanostructured Plate Integrated Into a Rectangular Channel **2013**,		1
44	MIR376A is a regulator of starvation-induced autophagy. *PLoS ONE*, **2013**, 8, e82556	3.7	40

43	Ferrofluid actuation with varying magnetic fields for micropumping applications. *Microfluidics and Nanofluidics*, **2012**, 13, 683-694	2.8	32
42	Kidney stone erosion by micro scale hydrodynamic cavitation and consequent kidney stone treatment. *Annals of Biomedical Engineering*, **2012**, 40, 1895-902	4.7	17
41	Heat transfer enhancement with actuation of magnetic nanoparticles suspended in a base fluid. *Journal of Applied Physics*, **2012**, 112, 064320	2.5	20
40	Reversibility of Functional and Structural Changes of Lysozyme Subjected to Hydrodynamic Flow. *Journal of Nanotechnology in Engineering and Medicine*, **2012**, 3,		4
39	Pool Boiling Critical Heat Flux in Dielectric Liquids and Nanofluids. *Advances in Heat Transfer*, **2011**, 43, 1-76	1.9	7
38	Magnetic Nanoparticle Based Nanofluid Actuation With Dynamic Magnetic Fields **2011**,		2
37	Low Mass Quality Flow Boiling in Microtubes at High Mass Fluxes. *Journal of Thermal Science and Engineering Applications*, **2011**, 3,	1.9	7
36	Flow Boiling in Microscale at High Flowrates **2011**,		2
35	Hydrodynamic Characteristics of Crossflow over MEMS-Based Pillars. *Journal of Fluids Engineering, Transactions of the ASME*, **2011**, 133,	2.1	9
34	Bubbly cavitating flow generation and investigation of its erosional nature for biomedical applications. *IEEE Transactions on Biomedical Engineering*, **2011**, 58, 1337-46	5	17
33	Localized radiative energy transfer from a plasmonic bow-tie nano-antenna to a magnetic thin film stack. *Applied Physics A: Materials Science and Processing*, **2011**, 103, 703-707	2.6	6
32	Exergo-economic analysis of micro pin fin heat sinks. *International Journal of Energy Research*, **2011**, 35, 1004-1013	4.5	8
31	Parametric study on the effect of end walls on heat transfer and fluid flow across a micro pin-fin. *International Journal of Thermal Sciences*, **2011**, 50, 1073-1084	4.1	32
30	A NOVEL MAGNETOMECHANICAL PUMP TO ACTUATE FERROFLUIDS IN MINICHANNELS **2011**,		2
29	A Compact Nanostructure Enhanced Heat Sink With Flow in a Rectangular Channel **2010**,		1
28	Critical Heat Flux in Cooling Channels for Flow-Field Probes **2010**,		2
27	Parameter Optimization of a Micro Heat Sink With Circular Pin-Fins **2010**,		3
26	Exergy analysis of second-generation micro heat sinks under single-phase and flow boiling conditions. *International Journal of Exergy*, **2010**, 7, 147	1.2	6

25	Compact nanostructure integrated pool boiler for microscale cooling applications. *Micro and Nano Letters*, **2010**, 5, 203	0.9	17
24	Effect of substrate thickness and material on heat transfer in microchannel heat sinks. *International Journal of Thermal Sciences*, **2010**, 49, 635-642	4.1	42
23	Pressure drop across micro-pin heat sinks under unstable boiling conditions. *International Journal of Thermal Sciences*, **2010**, 49, 1253-1263	4.1	20
22	Experimental Investigation of Critical Heat Flux in Microchannels for Flow-Field Probes **2009**,		10
21	A model to predict saturated critical heat flux in minichannels and microchannels. *International Journal of Thermal Sciences*, **2009**, 48, 261-270	4.1	28
20	Correction to "Micro scale pin fin heat sinks: Parametric performance evaluation study". *IEEE Transactions on Components and Packaging Technologies*, **2008**, 31, 235-235		3
19	Two-phase pressure drop across a hydrofoil-based micro pin device using R-123. *Experimental Thermal and Fluid Science*, **2008**, 32, 1213-1221	3	8
18	Boiling heat transfer in a hydrofoil-based micro pin fin heat sink. *International Journal of Heat and Mass Transfer*, **2007**, 50, 1018-1034	4.9	94
17	Hydrodynamic cavitation and boiling in refrigerant (R-123) flow inside microchannels. *International Journal of Heat and Mass Transfer*, **2007**, 50, 2838-2854	4.9	56
16	Critical Heat Flux of R-123 in Silicon-Based Microchannels. *Journal of Heat Transfer*, **2007**, 129, 844-851	1.8	57
15	TCPT-2006-096.R2: Micro Scale pin fin Heat Sinks Parametric Performance Evaluation Study. *IEEE Transactions on Components and Packaging Technologies*, **2007**, 30, 855-865		70
14	Convective flow of refrigerant (R-123) across a bank of micro pin fins. *International Journal of Heat and Mass Transfer*, **2006**, 49, 3142-3155	4.9	97
13	Hydoroil-Based Micro Pin Fin Heat Sink **2006**, 563		8
12	Suppression of Boiling Flow Oscillations in Parallel Microchannels by Inlet Restrictors. *Journal of Heat Transfer*, **2006**, 128, 251-260	1.8	207
11	Cavitation Enhanced Heat Transfer in Microchannels. *Journal of Heat Transfer*, **2006**, 128, 1293-1301	1.8	53
10	Thermal-Hydraulic Performance of MEMS-based Pin Fin Heat Sink. *Journal of Heat Transfer*, **2006**, 128, 121	1.8	150
9	Bubble Dynamics During Boiling in Enhanced Surface Microchannels. *Journal of Microelectromechanical Systems*, **2006**, 15, 1514-1527	2.5	51
8	Methods and preliminary results on enhanced boiling heat transfer in second generation microchannels. *Microfluidics and Nanofluidics*, **2006**, 2, 387-397	2.8	4

7	Reduced Pressure Boiling Heat Transfer in Rectangular Microchannels With Interconnected Reentrant Cavities. *Journal of Heat Transfer*, **2005**, 127, 1106-1114	1.8	66
6	Laminar Flow Across a Bank of Low Aspect Ratio Micro Pin Fins. *Journal of Fluids Engineering, Transactions of the ASME*, **2005**, 127, 419-430	2.1	149
5	Single-Phase Heat Transfer in Mems-Based Pin Fin Heat Sink **2005**, 661		
4	Forced convective heat transfer across a pin fin micro heat sink. *International Journal of Heat and Mass Transfer*, **2005**, 48, 3615-3627	4.9	321
3	Boiling heat transfer in rectangular microchannels with reentrant cavities. *International Journal of Heat and Mass Transfer*, **2005**, 48, 4867-4886	4.9	175
2	Boiling in Enhanced Surface Microchannels **2005**,		2
1	Enhanced Thermal Conductivity through the Development of Nanofluids. *Materials Research Society Symposia Proceedings*, **1996**, 457, 3		414