

# Suresh V Garimella

## List of Publications by Citations

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ext. papers

17,733  
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#	Paper	IF	Citations
392	Investigation of heat transfer in rectangular microchannels. <i>International Journal of Heat and Mass Transfer</i> , <b>2005</b> , 48, 1688-1704	4.9	543
391	Recent advances in microscale pumping technologies: a review and evaluation. <i>Microfluidics and Nanofluidics</i> , <b>2008</b> , 5, 145-174	2.8	324
390	A COMPARATIVE ANALYSIS OF STUDIES ON HEAT TRANSFER AND FLUID FLOW IN MICROCHANNELS. <i>Microscale Thermophysical Engineering</i> , <b>2001</b> , 5, 293-311		298
389	Thermally developing flow and heat transfer in rectangular microchannels of different aspect ratios. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 3060-3067	4.9	297
388	Characteristics of an evaporating thin film in a microchannel. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 3933-3942	4.9	258
387	. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2008</b> , 31, 801-815		253
386	A composite heat transfer correlation for saturated flow boiling in small channels. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 2110-2118	4.9	232
385	Thermal analysis of solar thermal energy storage in a molten-salt thermocline. <i>Solar Energy</i> , <b>2010</b> , 84, 974-985	6.8	221
384	Characterization of evaporation and boiling from sintered powder wicks fed by capillary action. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 4204-4215	4.9	184
383	The Influence of Surface Roughness on Nucleate Pool Boiling Heat Transfer. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	178
382	TRANSPORT IN MICROCHANNELS - A CRITICAL REVIEW. <i>Annual Review of Heat Transfer</i> , <b>2003</b> , 13, 1-50	2.7	178
381	Saturated flow boiling heat transfer and pressure drop in silicon microchannel arrays. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 789-806	4.9	174
380	Direct Simulation of Transport in Open-Cell Metal Foam. <i>Journal of Heat Transfer</i> , <b>2006</b> , 128, 793-799	1.8	173
379	Hydrodynamic loading of microcantilevers vibrating in viscous fluids. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 114906	2.5	166
378	Investigation of Liquid Flow in Microchannels. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2004</b> , 18, 65-72		153
377	Experimental and numerical study of melting in a cylinder. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 2724-2738	4.9	152
376	Droplet evaporation dynamics on a superhydrophobic surface with negligible hysteresis. <i>Langmuir</i> , <b>2013</b> , 29, 10785-95	4	147

375	Experimental Investigation of the Thermal Performance of Piezoelectric Fans. <i>Heat Transfer Engineering</i> , <b>2004</b> , 25, 4-14	1.7	147
374	A comprehensive flow regime map for microchannel flow boiling with quantitative transition criteria. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 2694-2702	4.9	142
373	Microchannel size effects on local flow boiling heat transfer to a dielectric fluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 3724-3735	4.9	142
372	Advances in mesoscale thermal management technologies for microelectronics. <i>Microelectronics Journal</i> , <b>2006</b> , 37, 1165-1185	1.8	135
371	A Two-Temperature Model for Solid-Liquid Phase Change in Metal Foams. <i>Journal of Heat Transfer</i> , <b>2005</b> , 127, 995-1004	1.8	134
370	Effects of channel dimension, heat flux, and mass flux on flow boiling regimes in microchannels. <i>International Journal of Multiphase Flow</i> , <b>2009</b> , 35, 349-362	3.6	131
369	Nozzle-geometry effects in liquid jet impingement heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>1996</b> , 39, 2915-2923	4.9	128
368	A microscale model for thin-film evaporation in capillary wick structures. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 169-179	4.9	127
367	The development of a bubble rising in a viscous liquid. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 387, 61-96	3.7	127
366	A hierarchical manifold microchannel heat sink array for high-heat-flux two-phase cooling of electronics. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 117, 319-330	4.9	124
365	Analysis and optimization of the thermal performance of microchannel heat sinks. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2005</b> , 15, 7-26	4.5	121
364	A mathematical model for analyzing the thermal characteristics of a flat micro heat pipe with a grooved wick. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 4637-4650	4.9	118
363	Ionic winds for locally enhanced cooling. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 053302	2.5	118
362	Measurements and high-speed visualizations of flow boiling of a dielectric fluid in a silicon microchannel heat sink. <i>International Journal of Multiphase Flow</i> , <b>2006</b> , 32, 957-971	3.6	116
361	Continuous Oil/Water Separation Using Polydimethylsiloxane-Functionalized Melamine Sponge. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 3596-3602	3.9	115
360	Prediction of the onset of nucleate boiling in microchannel flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2005</b> , 48, 5134-5149	4.9	115
359	Effects of heat flux, mass flux, vapor quality, and saturation temperature on flow boiling heat transfer in microchannels. <i>International Journal of Multiphase Flow</i> , <b>2009</b> , 35, 142-154	3.6	114
358	Molten-salt thermal energy storage in thermoclines under different environmental boundary conditions. <i>Applied Energy</i> , <b>2010</b> , 87, 3322-3329	10.7	112

357	Characterization and optimization of the thermal performance of miniature piezoelectric fans. <i>International Journal of Heat and Fluid Flow</i> , <b>2007</b> , 28, 806-820	2.4	111
356	Bubble nucleation characteristics in pool boiling of a wetting liquid on smooth and rough surfaces. <i>International Journal of Multiphase Flow</i> , <b>2010</b> , 36, 249-260	3.6	110
355	Enhancement of external forced convection by ionic wind. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 6047-6053	4.9	110
354	An integrated thermal and mechanical investigation of molten-salt thermocline energy storage. <i>Applied Energy</i> , <b>2011</b> , 88, 2098-2105	10.7	109
353	System-level simulation of a solar power tower plant with thermocline thermal energy storage. <i>Applied Energy</i> , <b>2014</b> , 113, 86-96	10.7	103
352	Measurement and prediction of the cooling characteristics of a generalized vibrating piezoelectric fan. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 4470-4478	4.9	103
351	A study of the flow field of a confined and submerged impinging jet. <i>International Journal of Heat and Mass Transfer</i> , <b>1998</b> , 41, 1025-1034	4.9	101
350	Flow Boiling Heat Transfer in Microchannels. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 1321-1332	1.8	100
349	Analysis of the Wicking and Thin-Film Evaporation Characteristics of Microstructures. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	98
348	Review and Comparative Analysis of Studies on Saturated Flow Boiling in Small Channels. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2008</b> , 12, 187-227	3.7	97
347	Refrigerant flow boiling heat transfer in parallel microchannels as a function of local vapor quality. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 4775-4787	4.9	97
346	Electrowetting-based control of static droplet states on rough surfaces. <i>Langmuir</i> , <b>2007</b> , 23, 4918-24	4	96
345	Microscale pumping technologies for microchannel cooling systems. <i>Applied Mechanics Reviews</i> , <b>2004</b> , 57, 191-221	8.6	96
344	Assessment of water droplet evaporation mechanisms on hydrophobic and superhydrophobic substrates. <i>Langmuir</i> , <b>2013</b> , 29, 15831-41	4	95
343	Low Reynolds number flow through nozzle-diffuser elements in valveless micropumps. <i>Sensors and Actuators A: Physical</i> , <b>2004</b> , 113, 226-235	3.9	92
342	Effect of particle size on surface-coating enhancement of pool boiling heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 81, 103-113	4.9	90
341	Towards a Thermal Moore's Law. <i>IEEE Transactions on Advanced Packaging</i> , <b>2007</b> , 30, 462-474		90
340	Exploiting Microscale Roughness on Hierarchical Superhydrophobic Copper Surfaces for Enhanced Dropwise Condensation. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1400480	4.6	87

339	The importance of turbulence during condensation in a horizontal circular minichannel. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 3470-3481	4.9	86
338	Droplet evaporation on heated hydrophobic and superhydrophobic surfaces. <i>Physical Review E</i> , <b>2014</b> , 89, 042402	2.4	85
337	Local Heat Transfer Coefficients Induced by Piezoelectrically Actuated Vibrating Cantilevers. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 1168-1176	1.8	85
336	Single-Phase Flow and Heat Transport and Pumping Considerations in Microchannel Heat Sinks. <i>Heat Transfer Engineering</i> , <b>2004</b> , 25, 15-25	1.7	84
335	Preventing the Cassie-Wenzel transition using surfaces with noncommunicating roughness elements. <i>Langmuir</i> , <b>2009</b> , 25, 4815-20	4	83
334	Prandtl-number effects and generalized correlations for confined and submerged jet impingement. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 3471-3480	4.9	83
333	Hybrid surface design for robust superhydrophobicity. <i>Langmuir</i> , <b>2012</b> , 28, 9606-15	4	81
332	Cyclic operation of molten-salt thermal energy storage in thermoclines for solar power plants. <i>Applied Energy</i> , <b>2013</b> , 103, 256-265	10.7	81
331	Effects of nozzle-inlet chamfering on pressure drop and heat transfer in confined air jet impingement. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 1133-1139	4.9	79
330	Technological drivers in data centers and telecom systems: Multiscale thermal, electrical, and energy management. <i>Applied Energy</i> , <b>2013</b> , 107, 66-80	10.7	78
329	A numerical model for transport in flat heat pipes considering wick microstructure effects. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 153-168	4.9	76
328	Flow regime-based modeling of heat transfer and pressure drop in microchannel flow boiling. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 1246-1260	4.9	74
327	Microtomography-Based Simulation of Transport through Open-Cell Metal Foams. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2010</b> , 58, 527-544	2.3	73
326	Coalescence-Induced Jumping of Multiple Condensate Droplets on Hierarchical Superhydrophobic Surfaces. <i>Scientific Reports</i> , <b>2016</b> , 6, 18649	4.9	72
325	Electronics Thermal Management in Information and Communications Technologies: Challenges and Future Directions. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2017</b> , 7, 1191-1205	1.7	71
324	Heat transfer in trapezoidal microchannels of various aspect ratios. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 365-375	4.9	70
323	An analytical solution for the total heat transfer in the thin-film region of an evaporating meniscus. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 6317-6322	4.9	70
322	Simulation of Thermal Transport in Open-Cell Metal Foams: Effect of Periodic Unit-Cell Structure. <i>Journal of Heat Transfer</i> , <b>2008</b> , 130,	1.8	68

321	An experimentally validated thermo-mechanical model for the prediction of thermal contact conductance. <i>International Journal of Heat and Mass Transfer</i> , <b>2005</b> , 48, 5446-5459	4.9	68
320	HEAT TRANSFER AND FLOW FIELDS IN CONFINED JET IMPINGEMENT. <i>Annual Review of Heat Transfer</i> , <b>2000</b> , 11, 413-494	2.7	68
319	Nonlinear aerodynamic damping of sharp-edged flexible beams oscillating at low Keulegan-Carpenter numbers. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 634, 269	3.7	66
318	Local Heat Transfer Distributions in Confined Multiple Air Jet Impingement. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2001</b> , 123, 165-172	2	66
317	Visualization of vapor formation regimes during capillary-fed boiling in sintered-powder heat pipe wicks. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 3498-3510	4.9	64
316	Review of Molten-Salt Thermocline Tank Modeling for Solar Thermal Energy Storage. <i>Heat Transfer Engineering</i> , <b>2013</b> , 34, 787-800	1.7	62
315	Wicking and thermal characteristics of micropillared structures for use in passive heat spreaders. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 586-596	4.9	60
314	The critical role of channel cross-sectional area in microchannel flow boiling heat transfer. <i>International Journal of Multiphase Flow</i> , <b>2009</b> , 35, 904-913	3.6	60
313	A comprehensive model of a miniature-scale linear compressor for electronics cooling. <i>International Journal of Refrigeration</i> , <b>2011</b> , 34, 63-73	3.8	60
312	Electrowetting-based control of droplet transition and morphology on artificially microstructured surfaces. <i>Langmuir</i> , <b>2008</b> , 24, 8338-45	4	60
311	. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2007</b> , 30, 119-128		60
310	Transport in Flat Heat Pipes at High Heat Fluxes From Multiple Discrete Sources. <i>Journal of Heat Transfer</i> , <b>2004</b> , 126, 347-354	1.8	60
309	Nanotextured superhydrophobic electrodes enable detection of attomolar-scale DNA concentration within a droplet by non-faradaic impedance spectroscopy. <i>Lab on A Chip</i> , <b>2013</b> , 13, 4248-56 <sup>7.2</sup>	7.2	59
308	A Two-Temperature Model for the Analysis of Passive Thermal Control Systems. <i>Journal of Heat Transfer</i> , <b>2004</b> , 126, 628	1.8	58
307	Enabling Highly Effective Boiling from Superhydrophobic Surfaces. <i>Physical Review Letters</i> , <b>2018</b> , 120, 174501	7.4	57
306	Second-law analysis of molten-salt thermal energy storage in thermoclines. <i>Solar Energy</i> , <b>2012</b> , 86, 1621-1631	6.831	56
305	Evaporation analysis in sintered wick microstructures. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 61, 729-741	4.9	55
304	Influence of surface wettability on transport mechanisms governing water droplet evaporation. <i>Langmuir</i> , <b>2014</b> , 30, 9726-30	4	54

303	Numerical investigation of pressure drop and heat transfer through reconstructed metal foams and comparison against experiments. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 88, 508-515	4.9	54
302	Thermal Management Challenges in Telecommunication Systems and Data Centers. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2012</b> , 2, 1307-1316	1.7	54
301	Pool Boiling Performance Comparison of Smooth and Sintered Copper Surfaces with and Without Carbon Nanotubes. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2011</b> , 15, 133-150	3.7	54
300	Carbon Nanotube Coatings for Enhanced Capillary-Fed Boiling from Porous Microstructures. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2012</b> , 16, 1-17	3.7	54
299	Pressure and Flow Rate Performance of Piezoelectric Fans. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2009</b> , 32, 766-775		54
298	Two-dimensional streaming flows induced by resonating, thin beams. <i>Journal of the Acoustical Society of America</i> , <b>2003</b> , 114, 1785-95	2.2	54
297	Manifold microchannel heat sink design using optimization under uncertainty. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 69, 92-105	4.9	52
296	Heat and Mass Transport in Heat Pipe Wick Structures. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2007</b> , 21, 392-404	1.3	52
295	Microfluidic delivery of small molecules into mammalian cells based on hydrodynamic focusing. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 100, 150-8	4.9	52
294	Latent heat augmentation of thermocline energy storage for concentrating solar power $\square$ system-level assessment. <i>Applied Energy</i> , <b>2014</b> , 116, 278-287	10.7	51
293	Induction electrohydrodynamics micropump for high heat flux cooling. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 134, 650-659	3.9	51
292	Experimental investigation of steady buoyant-thermocapillary convection near an evaporating meniscus. <i>Physics of Fluids</i> , <b>2007</b> , 19, 082103	4.4	50
291	Recent Advances in Vapor Chamber Transport Characterization for High-Heat-Flux Applications. <i>Advances in Heat Transfer</i> , <b>2013</b> , 209-301	1.9	49
290	Design of multifunctional lattice-frame materials for compact heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 115, 619-629	4.9	48
289	Buoyancy-induced on-the-spot mixing in droplets evaporating on nonwetting surfaces. <i>Physical Review E</i> , <b>2014</b> , 90, 062407	2.4	48
288	Analysis of evaporating mist flow for enhanced convective heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 3346-3356	4.9	48
287	Transport from a volatile meniscus inside an open microtube. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 3007-3017	4.9	48
286	Design of Integrated Nanostructured Wicks for High-Performance Vapor Chambers. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2011</b> , 1, 859-867	1.7	45

285	Characterization of hierarchical manifold microchannel heat sink arrays under simultaneous background and hotspot heating conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 1289-1301	4.9	44
284	Local heat transfer distribution and effect of instabilities during flow boiling in a silicon microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 3179-3190	4.9	44
283	Numerical investigation of heat and mass transfer from an evaporating meniscus in a heated open groove. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 3015-3023	4.9	44
282	Measurement of the temperature non-uniformity in a microchannel heat sink using microscale laser-induced fluorescence. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 3275-3283	4.9	44
281	Analysis of Solid-Liquid Phase Change Under Pulsed Heating. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 395-400	4.8	44
280	Prediction of effective thermo-mechanical properties of particulate composites. <i>Computational Materials Science</i> , <b>2007</b> , 40, 255-266	3.2	44
279	Characterization of the heat transfer accompanying electrowetting or gravity-induced droplet motion. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 4037-4050	4.9	43
278	The effect of relative humidity on dropwise condensation dynamics. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 80, 759-766	4.9	42
277	Gas dynamics and electromagnetic processes in high-current arc plasmas. Part I. Model formulation and steady-state solutions. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 2540-2546	2.5	42
276	Patterning the condenser-side wick in ultra-thin vapor chamber heat spreaders to improve skin temperature uniformity of mobile devices. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 101, 927-936	4.9	42
275	Experimental investigation of evaporation from low-contact-angle sessile droplets. <i>Langmuir</i> , <b>2010</b> , 26, 880-8	4	41
274	FIXED-GRID FRONT-TRACKING ALGORITHM FOR SOLIDIFICATION PROBLEMS, PART I: METHOD AND VALIDATION. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2003</b> , 43, 117-141	1.3	41
273	Cooling Performance of Arrays of Vibrating Cantilevers. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	40
272	A permeable-membrane microchannel heat sink made by additive manufacturing. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 131, 1174-1183	4.9	40
271	Predicting two-phase flow distribution and stability in systems with many parallel heated channels. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 107, 557-571	4.9	39
270	Electrical impedance-based void fraction measurement and flow regime identification in microchannel flows under adiabatic conditions. <i>International Journal of Multiphase Flow</i> , <b>2012</b> , 42, 175-183	3.6	39
269	Local two-phase heat transfer from arrays of confined and submerged impinging jets. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 67, 487-498	4.9	39
268	Water and Ethanol Droplet Wetting Transition during Evaporation on Omniphobic Surfaces. <i>Scientific Reports</i> , <b>2015</b> , 5, 17110	4.9	39



267	Electrowetting-induced dewetting transitions on superhydrophobic surfaces. <i>Langmuir</i> , <b>2011</b> , 27, 10342-6	4.6	39
266	Infrared micro-particle image velocimetry measurements and predictions of flow distribution in a microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 1877-1887	4.9	39
265	Thermal Management of Transient Power Spikes in Electronics Phase Change Energy Storage or Copper Heat Sinks?. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2004</b> , 126, 308-316	2	39
264	Marangoni Convection in Evaporating Organic Liquid Droplets on a Nonwetting Substrate. <i>Langmuir</i> , <b>2016</b> , 32, 4729-35	4	39
263	Multi-objective optimization of sustainable single-effect water/Lithium Bromide absorption cycle. <i>Renewable Energy</i> , <b>2012</b> , 46, 100-110	8.1	38
262	The petal effect of parahydrophobic surfaces offers low receding contact angles that promote effective boiling. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 135, 403-412	4.9	37
261	3D reconstruction and design of porous media from thin sections. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 73, 250-264	4.9	37
260	Dynamics of droplet motion under electrowetting actuation. <i>Langmuir</i> , <b>2011</b> , 27, 8198-204	4	37
259	Analysis and Prediction of the Thermal Performance of Piezoelectrically Actuated Fans. <i>Heat Transfer Engineering</i> , <b>2009</b> , 30, 487-498	1.7	37
258	Surface Roughness Effects on Flow Boiling in Microchannels. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2009</b> , 1,	1.9	37
257	Effects of Dissolved Air on Subcooled Flow Boiling of a Dielectric Coolant in a Microchannel Heat Sink. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2006</b> , 128, 398-404	2	37
256	Droplet retention on an incline. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 1457-1465	4.9	36
255	Dynamic Response Optimization of Piezoelectrically Excited Thin Resonant Beams. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2005</b> , 127, 18-27	1.6	36
254	Resistance network-based thermal conductivity model for metal foams. <i>Computational Materials Science</i> , <b>2010</b> , 50, 622-632	3.2	35
253	Axisymmetric wall jet development in confined jet impingement. <i>Physics of Fluids</i> , <b>2017</b> , 29, 025102	4.4	34
252	Effect of superhydrophobic surface morphology on evaporative deposition patterns. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 201604	3.4	34
251	Numerical investigation of an evaporating meniscus in a channel. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 915-924	4.9	34
250	A saturated-interface-volume phase change model for simulating flow boiling. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 93, 945-956	4.9	33

249	Nucleate boiling from smooth and rough surfaces [Part 2: Analysis of surface roughness effects on nucleate boiling. <i>Experimental Thermal and Fluid Science</i> , <b>2013</b> , 44, 439-455	3	33
248	Melting of Phase Change Materials With Volume Change in Metal Foams. <i>Journal of Heat Transfer</i> , <b>2010</b> , 132,	1.8	32
247	Enhanced Antimicrobial Efficacy of Bimetallic Porous CuO Microspheres Decorated with Ag Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39165-39173	9.5	31
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