

Dimos Poulikakos

List of Publications by Citations

Source: <https://exaly.com/author-pdf/351119/dimos-poulikakos-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

504
papers

22,547
citations

77
h-index

127
g-index

554
ext. papers

25,413
ext. citations

5.8
avg, IF

7.09
L-index

#	Paper	IF	Citations
504	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 094313	3.3	766
503	Metal foams as compact high performance heat exchangers. <i>Mechanics of Materials</i> , 2003 , 35, 1161-1176	3.3	566
502	All-inkjet-printed flexible electronics fabrication on a polymer substrate by low-temperature high-resolution selective laser sintering of metal nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 345202	3.4	560
501	On the effective thermal conductivity of a three-dimensionally structured fluid-saturated metal foam. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 827-836	4.9	524
500	Are superhydrophobic surfaces best for icephobicity?. <i>Langmuir</i> , 2011 , 27, 3059-66	4	463
499	Mechanism of supercooled droplet freezing on surfaces. <i>Nature Communications</i> , 2012 , 3, 615	17.4	396
498	Wetting effects on the spreading of a liquid droplet colliding with a flat surface: Experiment and modeling. <i>Physics of Fluids</i> , 1995 , 7, 236-247	4.4	367
497	Phosphorylation of VE-cadherin is modulated by haemodynamic forces and contributes to the regulation of vascular permeability in vivo. <i>Nature Communications</i> , 2012 , 3, 1208	17.4	299
496	Spontaneous droplet trampolining on rigid superhydrophobic surfaces. <i>Nature</i> , 2015 , 527, 82-5	50.4	263
495	Direct printing of nanostructures by electrostatic autofocussing of ink nanodroplets. <i>Nature Communications</i> , 2012 , 3, 890	17.4	241
494	Measurement of the thermal conductivity of individual carbon nanotubes by the four-point three-omega method. <i>Nano Letters</i> , 2006 , 6, 1589-93	11.5	233
493	Physics of icing and rational design of surfaces with extraordinary icephobicity. <i>Langmuir</i> , 2015 , 31, 4807-11	12.1	228
492	On the nanoengineering of superhydrophobic and impalement resistant surface textures below the freezing temperature. <i>Nano Letters</i> , 2014 , 14, 172-82	11.5	226
491	The Effects of Compression and Pore Size Variations on the Liquid Flow Characteristics in Metal Foams. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002 , 124, 263-272	2.1	225
490	Conductor microstructures by laser curing of printed gold nanoparticle ink. <i>Applied Physics Letters</i> , 2004 , 84, 801-803	3.4	215
489	Simulations of flow through open cell metal foams using an idealized periodic cell structure. <i>International Journal of Heat and Fluid Flow</i> , 2003 , 24, 825-834	2.4	215
488	Modeling of the deformation of a liquid droplet impinging upon a flat surface. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993 , 5, 2588-2599		212

487	Acoustophoretic contactless transport and handling of matter in air. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12549-54	11.5	195
486	On the coalescence of gold nanoparticles. <i>International Journal of Multiphase Flow</i> , 2004 , 30, 979-994	3.6	193
485	A micro-solid oxide fuel cell system as battery replacement. <i>Journal of Power Sources</i> , 2008 , 177, 123-130	8.9	189
484	Significant reduction of thermal conductivity in Si/Ge core-shell nanowires. <i>Nano Letters</i> , 2011 , 11, 618-23	11.5	184
483	Laminar mixing, heat transfer and pressure drop in tree-like microchannel nets and their application for thermal management in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2004 , 130, 178-191	8.9	184
482	Forced Convection in a Duct Partially Filled With a Porous Material. <i>Journal of Heat Transfer</i> , 1987 , 109, 653-662	1.8	178
481	Si/Ge superlattice nanowires with ultralow thermal conductivity. <i>Nano Letters</i> , 2012 , 12, 5487-94	11.5	168
480	Highly flexible, all solid-state micro-supercapacitors from vertically aligned carbon nanotubes. <i>Nanotechnology</i> , 2014 , 25, 055401	3.4	166
479	Electrohydrodynamic NanoDrip Printing of High Aspect Ratio Metal Grid Transparent Electrodes. <i>Advanced Functional Materials</i> , 2016 , 26, 833-840	15.6	161
478	Molecular dynamics simulation of vaporization of an ultra-thin liquid argon layer on a surface. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 2087-2100	4.9	159
477	Rational nanostructuring of surfaces for extraordinary icephobicity. <i>Nanoscale</i> , 2014 , 6, 4874-81	7.7	155
476	Air stable high resolution organic transistors by selective laser sintering of ink-jet printed metal nanoparticles. <i>Applied Physics Letters</i> , 2007 , 90, 141103	3.4	153
475	Anomalous thermal response of silicene to uniaxial stretching. <i>Physical Review B</i> , 2013 , 87,	3.3	151
474	Remeshed Smoothed Particle Hydrodynamics for the Simulation of Viscous and Heat Conducting Flows. <i>Journal of Computational Physics</i> , 2002 , 182, 67-90	4.1	139
473	Microstructuring by printing and laser curing of nanoparticle solutions. <i>Applied Physics Letters</i> , 2003 , 82, 3529-3531	3.4	139
472	Measurement of thermal conductivity of individual multiwalled carbon nanotubes by the 3- ω method. <i>Applied Physics Letters</i> , 2005 , 87, 013108	3.4	137
471	Computational study of high-speed liquid droplet impact. <i>Journal of Applied Physics</i> , 2002 , 92, 2821-2828	8.5	137
470	Splat-quench solidification: estimating the maximum spreading of a droplet impacting a solid surface. <i>Journal of Materials Science</i> , 1993 , 28, 963-970	4.3	137

469	Fabrication of multilayer passive and active electric components on polymer using inkjet printing and low temperature laser processing. <i>Sensors and Actuators A: Physical</i> , 2007 , 134, 161-168	3.9	136
468	Endocytic reawakening of motility in jammed epithelia. <i>Nature Materials</i> , 2017 , 16, 587-596	27	134
467	Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrate— Modeling. <i>International Journal of Heat and Mass Transfer</i> , 1996 , 39, 2771-2789	4.9	130
466	On the thermal conductivity of gold nanoparticle colloids. <i>Langmuir</i> , 2010 , 26, 663-70	4	125
465	Forced Convection in a Channel Filled With Porous Medium, Including the Effects of Flow Inertia, Variable Porosity, and Brinkman Friction. <i>Journal of Heat Transfer</i> , 1987 , 109, 880-888	1.8	125
464	Flow condensation on copper-based nanotextured superhydrophobic surfaces. <i>Langmuir</i> , 2013 , 29, 840-8	4	120
463	Fabrication and electrical characterization of circuits based on individual tin oxide nanowires. <i>Nanotechnology</i> , 2006 , 17, 5577-83	3.4	118
462	Supercooled water drops impacting superhydrophobic textures. <i>Langmuir</i> , 2014 , 30, 10855-61	4	115
461	Frost halos from supercooled water droplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16073-8	11.5	115
460	An investigation of microscale explosive vaporization of water on an ultrathin Pt wire. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 367-379	4.9	114
459	An electrical method for the measurement of the thermal and electrical conductivity of reduced graphene oxide nanostructures. <i>Nanotechnology</i> , 2009 , 20, 405704	3.4	113
458	The fluid dynamics of an attic space. <i>Journal of Fluid Mechanics</i> , 1983 , 131, 251	3.7	112
457	Fin Geometry for Minimum Entropy Generation in Forced Convection. <i>Journal of Heat Transfer</i> , 1982 , 104, 616-623	1.8	112
456	Solidification phenomena in picoliter size solder droplet deposition on a composite substrate. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 295-309	4.9	109
455	Aquasar: A hot water cooled data center with direct energy reuse. <i>Energy</i> , 2012 , 43, 237-245	7.9	107
454	The nondarcy regime for vertical boundary layer natural convection in a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 717-722	4.9	107
453	Solidification of gold nanoparticles in carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 94, 105502	7.4	106
452	Energy efficient hotspot-targeted embedded liquid cooling of electronics. <i>Applied Energy</i> , 2015 , 138, 414-422	10.7	104

451	On the Mechanism of Hydrophilicity of Graphene. <i>Nano Letters</i> , 2016 , 16, 4447-53	11.5	102
450	Multifunctional superhydrophobic polymer/carbon nanocomposites: graphene, carbon nanotubes, or carbon black?. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8859-67	9.5	101
449	An Experimental Study of Molten Microdroplet Surface Deposition and Solidification: Transient Behavior and Wetting Angle Dynamics. <i>Journal of Heat Transfer</i> , 2000 , 122, 544-556	1.8	101
448	Haemodynamics and wall remodelling of a growing cerebral aneurysm: a computational model. <i>Journal of Biomechanics</i> , 2007 , 40, 412-26	2.9	98
447	Computational modeling of coupled blood-wall mass transport of LDL: effects of local wall shear stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H909-19	5.2	95
446	Surface-structured bacterial cellulose with guided assembly-based biolithography (GAB). <i>ACS Nano</i> , 2015 , 9, 206-19	16.7	91
445	Wedge Waveguides and Resonators for Quantum Plasmonics. <i>Nano Letters</i> , 2015 , 15, 6267-75	11.5	88
444	Acoustophoretic printing. <i>Science Advances</i> , 2018 , 4, eaat1659	14.3	88
443	Thermal conductivity reduction in core-shell nanowires. <i>Physical Review B</i> , 2011 , 84,	3.3	87
442	Experimental Investigation of an Ultrathin Manifold Microchannel Heat Sink for Liquid-Cooled Chips. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	87
441	Tree network channels as fluid distributors constructing double-staircase polymer electrolyte fuel cells. <i>Journal of Applied Physics</i> , 2004 , 96, 842-852	2.5	86
440	An experimentally optimized model for heat and mass transfer in direct contact membrane distillation. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 66, 855-867	4.9	85
439	Superhydrophobic hemostatic nanofiber composites for fast clotting and minimal adhesion. <i>Nature Communications</i> , 2019 , 10, 5562	17.4	85
438	Sub-amorphous thermal conductivity in ultrathin crystalline silicon nanotubes. <i>Nano Letters</i> , 2015 , 15, 2605-11	11.5	83
437	Water drops dancing on ice: how sublimation leads to drop rebound. <i>Physical Review Letters</i> , 2013 , 111, 014501	7.4	82
436	Ultrasound-mediated piezoelectric differentiation of neuron-like PC12 cells on PVDF membranes. <i>Scientific Reports</i> , 2017 , 7, 4028	4.9	82
435	Three-dimensional computational modeling of subject-specific cerebrospinal fluid flow in the subarachnoid space. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 021010	2.1	82
434	Computational investigation of subject-specific cerebrospinal fluid flow in the third ventricle and aqueduct of Sylvius. <i>Journal of Biomechanics</i> , 2007 , 40, 1235-45	2.9	82

433	Pressure and power generation during explosive vaporization on a thin-film microheater. <i>International Journal of Heat and Mass Transfer</i> , 2000 , 43, 281-296	4.9	82
432	A novel high performance, ultra thin heat sink for electronics. <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 586-598	2.4	81
431	Patient-specific three-dimensional simulation of LDL accumulation in a human left coronary artery in its healthy and atherosclerotic states. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1969-82	5.2	80
430	Acoustophoretic contactless elevation, orbital transport and spinning of matter in air. <i>Physical Review Letters</i> , 2014 , 112, 024301	7.4	79
429	Confocal reference free traction force microscopy. <i>Nature Communications</i> , 2016 , 7, 12814	17.4	78
428	Tricellulin: The Role of Tricellulin in Epithelial Jamming and Unjamming via Segmentation of Tricellular Junctions (Adv. Sci. 15/2020). <i>Advanced Science</i> , 2020 , 7, 2070085	13.6	78
427	Nanoparticle traffic on helical tracks: thermophoretic mass transport through carbon nanotubes. <i>Nano Letters</i> , 2006 , 6, 1910-7	11.5	77
426	Manufacturing of nanoscale thickness gold lines by laser curing of a discretely deposited nanoparticle suspension. <i>Superlattices and Microstructures</i> , 2004 , 35, 437-444	2.8	77
425	Multi-metal electrohydrodynamic redox 3D printing at the submicron scale. <i>Nature Communications</i> , 2019 , 10, 1853	17.4	75
424	On the Cooling of Electronics With Nanofluids. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	74
423	Flow induced by ependymal cilia dominates near-wall cerebrospinal fluid dynamics in the lateral ventricles. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20131189	4.1	73
422	Cerebrospinal fluid dynamics in the human cranial subarachnoid space: an overlooked mediator of cerebral disease. I. Computational model. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1195-204	4.1	73
421	Choosing the optimal wall shear parameter for the prediction of plaque location-A patient-specific computational study in human left coronary arteries. <i>Atherosclerosis</i> , 2012 , 221, 432-7	3.1	71
420	Nanosecond laser ablation of gold nanoparticle films. <i>Applied Physics Letters</i> , 2006 , 89, 141126	3.4	71
419	Efficiency of optimized bifurcating tree-like and parallel microchannel networks in the cooling of electronics. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1421-1430	4.9	70
418	Fountain-pen-based laser microstructuring with gold nanoparticle inks. <i>Applied Physics Letters</i> , 2004 , 85, 13-15	3.4	68
417	Control of initial endothelial spreading by topographic activation of focal adhesion kinase. <i>Soft Matter</i> , 2011 , 7, 7313	3.6	67
416	Lithography-free high-resolution organic transistor arrays on polymer substrate by low energy selective laser ablation of inkjet-printed nanoparticle film. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 579-587	2.6	67

415	Double diffusive convection in a horizontal sparsely packed porous layer. <i>International Communications in Heat and Mass Transfer</i> , 1986 , 13, 587-598	5.8	67
414	Natural Convection Experiments in a Triangular Enclosure. <i>Journal of Heat Transfer</i> , 1983 , 105, 652-655	1.8	66
413	Growth Rates and Spontaneous Navigation of Condensate Droplets Through Randomly Structured Textures. <i>ACS Nano</i> , 2017 , 11, 1673-1682	16.7	65
412	Choosing the optimal wall shear parameter for the prediction of plaque location-A patient-specific computational study in human right coronary arteries. <i>Atherosclerosis</i> , 2010 , 211, 445-50	3.1	65
411	In-tandem deposition and sintering of printed gold nanoparticle inks induced by continuous Gaussian laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1259-1261	2.6	65
410	Heat transfer aspects of splat-quench solidification: modelling and experiment. <i>Journal of Materials Science</i> , 1994 , 29, 2025-2039	4.3	65
409	Optically stable biocompatible flame-made SiO ₂ -coated Y ₂ O ₃ :Tb ³⁺ nanophosphors for cell imaging. <i>ACS Nano</i> , 2012 , 6, 3888-97	16.7	64
408	A novel method of energy efficient hotspot-targeted embedded liquid cooling for electronics: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 684-694	4.9	62
407	Rationally 3D-Textured Copper Surfaces for Laplace Pressure Imbalance-Induced Enhancement in Dropwise Condensation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29127-29135	9.5	61
406	Accelerated endothelial wound healing on microstructured substrates under flow. <i>Biomaterials</i> , 2013 , 34, 1488-97	15.6	61
405	Computational simulation of intracoronary flow based on real coronary geometry. <i>European Journal of Cardio-thoracic Surgery</i> , 2004 , 26, 248-56	3	61
404	Water nanoconfinement induced thermal enhancement at hydrophilic quartz interfaces. <i>Nano Letters</i> , 2010 , 10, 279-85	11.5	60
403	Comparative velocity investigations in cerebral arteries and aneurysms: 3D phase-contrast MR angiography, laser Doppler velocimetry and computational fluid dynamics. <i>NMR in Biomedicine</i> , 2009 , 22, 795-808	4.4	60
402	Optical Metasurfaces: Evolving from Passive to Adaptive. <i>Advanced Optical Materials</i> , 2019 , 7, 1801786	8.1	59
401	Heat transfer and fluid dynamics during the collision of a liquid droplet on a substrateII. Experiments. <i>International Journal of Heat and Mass Transfer</i> , 1996 , 39, 2791-2802	4.9	59
400	Superhydrophobicity enhancement through substrate flexibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13307-13312	11.5	58
399	3D micro-structures by piezoelectric inkjet printing of gold nanofluids. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 055022	2	58
398	Hierarchically nanotextured surfaces maintaining superhydrophobicity under severely adverse conditions. <i>Nanoscale</i> , 2014 , 6, 8710-9	7.7	57

397	Thermal rectification at water/functionalized silica interfaces. <i>Applied Physics Letters</i> , 2009 , 95, 151903	3.4	57
396	Metasurfaces Leveraging Solar Energy for Icephobicity. <i>ACS Nano</i> , 2018 , 12, 7009-7017	16.7	57
395	A micron-scale surface topography design reducing cell adhesion to implanted materials. <i>Scientific Reports</i> , 2018 , 8, 10887	4.9	56
394	A study on the compliance of a right coronary artery and its impact on wall shear stress. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 041014	2.1	56
393	Damage-Free Low Temperature Pulsed Laser Printing of Gold Nanoinks On Polymers. <i>Journal of Heat Transfer</i> , 2005 , 127, 724-732	1.8	56
392	Near-field light design with colloidal quantum dots for photonics and plasmonics. <i>Nano Letters</i> , 2014 , 14, 5827-33	11.5	55
391	Significant Nusselt number increase in microchannels with a segmented flow of two immiscible liquids: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 1456-1464	4.9	55
390	Spontaneous self-dislodging of freezing water droplets and the role of wettability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11040-11045	11.5	54
389	Effects of microreactor wall heat conduction on the reforming process of methane. <i>Chemical Engineering Science</i> , 2005 , 60, 6983-6997	4.4	54
388	Natural Convection in a Confined Fluid-Filled Space Driven by a Single Vertical Wall With Warm and Cold Regions. <i>Journal of Heat Transfer</i> , 1985 , 107, 867-876	1.8	54
387	MELTING FROM A FLAT PLATE EMBEDDED IN A POROUS MEDIUM IN THE PRESENCE OF STEADY NATURAL CONVECTION. <i>Numerical Heat Transfer</i> , 1986 , 10, 571-581		54
386	Toward a rational design of surface textures promoting endothelialization. <i>Nano Letters</i> , 2014 , 14, 1069-705	7.5	53
385	Experiment and analysis of forced convective heat transport in a packed bed of spheres. <i>International Journal of Heat and Mass Transfer</i> , 1988 , 31, 1399-1408	4.9	53
384	Exergy analysis of a solid oxide fuel cell micropowerplant. <i>Journal of Power Sources</i> , 2006 , 158, 333-347	8.9	52
383	Experimental investigation of the transient impact fluid dynamics and solidification of a molten microdroplet pile-up. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 535-550	4.9	52
382	Natural convection in vertically and horizontally layered porous media heated from the side. <i>International Journal of Heat and Mass Transfer</i> , 1983 , 26, 1805-1814	4.9	52
381	Hot water cooled electronics: Exergy analysis and waste heat reuse feasibility. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6391-6399	4.9	50
380	In-vivo flow simulation in coronary arteries based on computed tomography datasets: feasibility and initial results. <i>European Radiology</i> , 2007 , 17, 1291-300	8	50

379	Optimum washcoat thickness of a monolith reactor for syngas production by partial oxidation of methane. <i>Chemical Engineering Science</i> , 2008 , 63, 1761-1770	4.4	49
378	The departure from Darcy flow in natural convection in a vertical porous layer. <i>Physics of Fluids</i> , 1985 , 28, 3477		49
377	3D-printed fluidic networks for high-power-density heat-managing miniaturized redox flow batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 780-787	35.4	48
376	Exceptional Anti-Icing Performance of Self-Impregnating Slippery Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10233-10242	9.5	48
375	Mixing with herringbone-inspired microstructures: overcoming the diffusion limit in co-laminar microfluidic devices. <i>Lab on A Chip</i> , 2015 , 15, 1923-33	7.2	48
374	Optimal thermal operation of liquid-cooled electronic chips. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 1957-1969	4.9	48
373	Thermofluidics and energetics of a manifold microchannel heat sink for electronics with recovered hot water as working fluid. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 58, 135-151	4.9	47
372	3D Integrated Water Cooling of a Composite Multilayer Stack of Chips. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	47
371	Focused ion beam-assisted manipulation of single and double beta-SiC nanowires and their thermal conductivity measurements by the four-point-probe 3-omega method. <i>Nanotechnology</i> , 2010 , 21, 125301-4	1.4	47
370	Remodelling of the aortic root in severe tricuspid aortic stenosis: implications for transcatheter aortic valve implantation. <i>European Radiology</i> , 2009 , 19, 1316-23	8	47
369	Surface Functionalization Mechanisms of Enhancing Heat Transfer at Solid-Liquid Interfaces. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	47
368	Computational modeling of the mechanical behavior of the cerebrospinal fluid system. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 264-9	2.1	47
367	Transient Natural Convection Experiments in Shallow Enclosures. <i>Journal of Heat Transfer</i> , 1982 , 104, 533-538	1.8	47
366	Phonon assisted thermophoretic motion of gold nanoparticles inside carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 253116	3.4	46
365	Shock wave formation in droplet impact on a rigid surface: lateral liquid motion and multiple wave structure in the contact line region. <i>Journal of Fluid Mechanics</i> , 2003 , 490, 1-14	3.7	46
364	Imparting Icephobicity with Substrate Flexibility. <i>Langmuir</i> , 2017 , 33, 6708-6718	4	45
363	Microvortex-enhanced heat transfer in 3D-integrated liquid cooling of electronic chip stacks. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 33-43	4.9	45
362	Performance of randomized Kelvin cell structures as catalytic substrates: Mass-transfer based analysis. <i>Chemical Engineering Science</i> , 2014 , 112, 143-151	4.4	45

361	Experimental investigation into vortex structure and pressure drop across microcavities in 3D integrated electronics. <i>Experiments in Fluids</i> , 2011 , 51, 731-741	2.5	43
360	Solidification of Liquid Metal Droplets Impacting Sequentially on a Solid Surface. <i>Journal of Heat Transfer</i> , 1994 , 116, 436-445	1.8	43
359	Unraveling wetting transition through surface textures with X-rays: liquid meniscus penetration phenomena. <i>Scientific Reports</i> , 2014 , 4, 4055	4.9	42
358	Hemodynamics in coronary arteries with overlapping stents. <i>Journal of Biomechanics</i> , 2014 , 47, 505-11	2.9	42
357	Graphene mediated thermal resistance reduction at strongly coupled interfaces. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 205-213	4.9	42
356	A low-frequency wave motion mechanism enables efficient energy transport in carbon nanotubes at high heat fluxes. <i>Nano Letters</i> , 2012 , 12, 3410-6	11.5	42
355	Polymer Electrolyte Fuel Cells With Porous Materials as Fluid Distributors and Comparisons With Traditional Channeled Systems. <i>Journal of Heat Transfer</i> , 2004 , 126, 410-418	1.8	42
354	Double-diffusion from a vertical surface in a porous region saturated with a non-Newtonian fluid. <i>International Journal of Heat and Mass Transfer</i> , 1995 , 38, 935-946	4.9	42
353	Natural convection near 4°C in a water saturated porous layer heated from below. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 2355-2364	4.9	42
352	On the acoustic levitation stability behaviour of spherical and ellipsoidal particles. <i>Journal of Fluid Mechanics</i> , 2012 , 709, 581-592	3.7	41
351	High resolution selective multilayer laser processing by nanosecond laser ablation of metal nanoparticle films. <i>Journal of Applied Physics</i> , 2007 , 102, 093102	2.5	41
350	High Rayleigh number convection in a fluid overlaying a porous bed. <i>International Journal of Heat and Fluid Flow</i> , 1986 , 7, 109-116	2.4	41
349	Toward Contactless Biology: Acoustophoretic DNA Transfection. <i>Scientific Reports</i> , 2016 , 6, 20023	4.9	40
348	A customizable class of colloidal-quantum-dot spasers and plasmonic amplifiers. <i>Science Advances</i> , 2017 , 3, e1700688	14.3	39
347	Electrokinetic framework of dielectrophoretic deposition devices. <i>Journal of Applied Physics</i> , 2010 , 107, 124308	2.5	39
346	Syngas production from butane using a flame-made Rh/Ce _{0.5} Zr _{0.5} O ₂ catalyst. <i>Applied Catalysis B: Environmental</i> , 2007 , 73, 336-344	21.8	39
345	Maximum density effects on natural convection in a porous layer differentially heated in the horizontal direction. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 2067-2075	4.9	39
344	Superhydrophobicity vs. Ice Adhesion: The Quandary of Robust Icephobic Surface Design. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500330	4.6	38

343	CFD and PTV steady flow investigation in an anatomically accurate abdominal aortic aneurysm. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 011008	2.1	38
342	Numerical and Experimental Investigation of an Annular Jet Flow With Large Blockage. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004 , 126, 375-384	2.1	38
341	Transport and solidification phenomena in molten microdroplet pileup. <i>Journal of Applied Physics</i> , 2002 , 92, 1675-1689	2.5	38
340	Nanoprinted Quantum Dot Graphene Photodetectors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900019	8.1	37
339	Double Diffusion in a Porous Cavity Saturated with Non-Newtonian Fluid. <i>Journal of Thermophysics and Heat Transfer</i> , 1998 , 12, 437-446	1.3	37
338	Significant heat transfer enhancement in microchannels with herringbone-inspired microstructures. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 755-764	4.9	36
337	Piezoresistive pressure sensors with parallel integration of individual single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2011 , 109, 064310	2.5	36
336	Transport Phenomena in Picoliter Size Solder Droplet Dispension. <i>Journal of Heat Transfer</i> , 1996 , 118, 148-156	1.8	35
335	Optimization of methane reforming in a microreactor—Effects of catalyst loading and geometry. <i>Chemical Engineering Science</i> , 2006 , 61, 4027-4040	4.4	35
334	Thermal Phenomena in Fiber-reinforced Thermoplastic Tape Winding Process: Computational Simulations and Experimental Validations. <i>Journal of Composite Materials</i> , 2004 , 38, 107-135	2.7	35
333	Buoyancy-driven convection in a horizontal fluid layer extending over a porous substrate. <i>Physics of Fluids</i> , 1986 , 29, 3949		35
332	A Plasmonic Painter's Method of Color Mixing for a Continuous Red-Green-Blue Palette. <i>ACS Nano</i> , 2020 , 14, 1783-1791	16.7	34
331	Left Ventricular Assist Devices: Challenges Toward Sustaining Long-Term Patient Care. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1836-1851	4.7	34
330	A flexible direct methanol micro-fuel cell based on a metalized, photosensitive polymer film. <i>Journal of Power Sources</i> , 2010 , 195, 3849-3857	8.9	34
329	On buoyancy induced heat and mass transfer from a concentrated source in an infinite porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1985 , 28, 621-629	4.9	34
328	Transparent Metasurfaces Counteracting Fogging by Harnessing Sunlight. <i>Nano Letters</i> , 2019 , 19, 1595-1604	16.04	33
327	A high-efficiency hybrid high-concentration photovoltaic system. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 514-521	4.9	33
326	Facile multifunctional plasmonic sunlight harvesting with tapered triangle nanopatterning of thin films. <i>Nanoscale</i> , 2013 , 5, 9957-62	7.7	33

325	High-yield dielectrophoretic assembly of two-dimensional graphene nanostructures. <i>Applied Physics Letters</i> , 2009 , 94, 053110	3.4	33
324	Large Convective Heat Transfer Enhancement in Microchannels With a Train of Coflowing Immiscible or Colloidal Droplets. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	32
323	Laser Doppler velocimetry (LDV) and 3D phase-contrast magnetic resonance angiography (PC-MRA) velocity measurements: validation in an anatomically accurate cerebral artery aneurysm model with steady flow. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 1493-505	5.6	32
322	Individual carbon nanotube soldering with gold nanoink deposition. <i>Applied Physics Letters</i> , 2007 , 90, 193116	3.4	32
321	Melting of a vertical plate in porous medium controlled by forced convection of a dissimilar fluid. <i>International Communications in Heat and Mass Transfer</i> , 1987 , 14, 507-517	5.8	32
320	Mass transport enhancement in redox flow batteries with corrugated fluidic networks. <i>Journal of Power Sources</i> , 2017 , 359, 322-331	8.9	31
319	Left ventricular hypertrophy and endothelial dysfunction in chronic kidney disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 56-61	4.1	31
318	The influence of surface micro-structure on endothelialization under supraphysiological wall shear stress. <i>Biomaterials</i> , 2014 , 35, 8479-86	15.6	31
317	Cell Image Velocimetry (CIV): boosting the automated quantification of cell migration in wound healing assays. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1437-47	3.7	31
316	On the effect of the electrical contact resistance in nanodevices. <i>Applied Physics Letters</i> , 2008 , 92, 2431054	3.4	31
315	Modeling and optimization of catalytic partial oxidation methane reforming for fuel cells. <i>Journal of Power Sources</i> , 2005 , 142, 184-193	8.9	31
314	Significant thermal conductivity reduction of silicon nanowire forests through discrete surface doping of germanium. <i>Applied Physics Letters</i> , 2015 , 106, 093102	3.4	30
313	A Dielectrophoretic Method for High Yield Deposition of Suspended, Individual Carbon Nanotubes with Four-Point Electrode Contact. <i>Nano Letters</i> , 2007 , 7, 3633-3638	11.5	30
312	Three-dimensional modeling of mechanical forces in the extracellular matrix during epithelial lumen formation. <i>Biophysical Journal</i> , 2006 , 90, 4380-91	2.9	30
311	Exergetic analysis of fuel cell micropowerplants fed by methanol. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2397-2411	4.9	30
310	Comparative study of modeling a hydrogen nonpremixed turbulent flame. <i>Combustion and Flame</i> , 2000 , 122, 176-194	5.3	30
309	A Nanoprinted Model of Interstitial Cancer Migration Reveals a Link between Cell Deformability and Proliferation. <i>ACS Nano</i> , 2016 , 10, 6437-48	16.7	29
308	Melting and Resolidification of a Substrate Caused by Molten Microdroplet Impact. <i>Journal of Heat Transfer</i> , 2001 , 123, 1110-1122	1.8	29

307	Wetting transitions in droplet drying on soft materials. <i>Nature Communications</i> , 2019 , 10, 4776	17.4	28
306	On ultrasound-induced microbubble oscillation in a capillary blood vessel and its implications for the blood-brain barrier. <i>Physics in Medicine and Biology</i> , 2012 , 57, 1019-45	3.8	28
305	Computed high concentrations of low-density lipoprotein correlate with plaque locations in human coronary arteries. <i>Journal of Biomechanics</i> , 2011 , 44, 2466-71	2.9	28
304	Investigation of a line-focused acoustic levitation for contactless transport of particles. <i>Journal of Applied Physics</i> , 2011 , 109, 093503	2.5	28
303	Corrigendum for the paper: K. Boomsma, D. Poulikakos, On the effective thermal conductivity of a three-dimensionally structured fluid-saturated metal foam [International Journal of Heat and Mass Transfer, 44 (2001) 827-836]. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 746-748	4.9	28
302	Long-term follow-up, computed tomography, and computational fluid dynamics of the Cabrol procedure. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 139, 1602-8	1.5	28
301	Flow and wall shear stress in end-to-side and side-to-side anastomosis of venous coronary artery bypass grafts. <i>BioMedical Engineering OnLine</i> , 2007 , 6, 35	4.1	28
300	An experimental investigation of microresistor laser printing with gold nanoparticle-laden inks. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 1485-1495	2.6	28
299	Double diffusion from a horizontal line source in an infinite porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1986 , 29, 492-495	4.9	28
298	Droplet Self-Propulsion on Superhydrophobic Microtracks. <i>ACS Nano</i> , 2020 , 14, 12895-12904	16.7	28
297	Multi-scale modelling of mass transfer limited heterogeneous reactions in open cell foams. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 337-346	4.9	27
296	Topography-mediated apical guidance in epidermal wound healing. <i>Soft Matter</i> , 2012 , 8, 6922	3.6	27
295	Measurement of the thermal conductivity of a water-based single-wall carbon nanotube colloidal suspension with a modified 3-omega method. <i>Nanotechnology</i> , 2009 , 20, 315706	3.4	27
294	Hydrogen production with a solar steam-methanol reformer and colloid nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 118-126	6.7	27
293	Mixing and modes of mass transfer in the third cerebral ventricle: a computational analysis. <i>Journal of Biomechanical Engineering</i> , 2007 , 129, 695-702	2.1	27
292	Multiphase Transport Phenomena in the Diffusion Zone of a PEM Fuel Cell. <i>Journal of Heat Transfer</i> , 2005 , 127, 1245-1259	1.8	27
291	Computational simulation of a non-newtonian model of the blood separation process. <i>Artificial Organs</i> , 2005 , 29, 949-59	2.6	27
290	Heat Transfer and Fluid Dynamics in the Process of Spray Deposition. <i>Advances in Heat Transfer</i> , 1996 , 28, 1-74	1.9	27

289	Engineering Fully Organic and Biodegradable Superhydrophobic Materials. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801202	4.6	27
288	Rapid-response low infrared emission broadband ultrathin plasmonic light absorber. <i>Scientific Reports</i> , 2014 , 4, 7181	4.9	26
287	On the Principles of Printing Sub-micrometer 3D Structures from Dielectric-Liquid-Based Colloids. <i>Advanced Functional Materials</i> , 2011 , 21, 388-395	15.6	26
286	Hydrogen-bond enhanced thermal energy transport at functionalized, hydrophobic and hydrophilic silica/water interfaces. <i>Chemical Physics Letters</i> , 2009 , 476, 271-276	2.5	26
285	Aqueous dispersion and dielectrophoretic assembly of individual surface-synthesized single-walled carbon nanotubes. <i>Langmuir</i> , 2009 , 25, 7778-82	4	26
284	Remelting phenomena in the process of splat solidification. <i>Journal of Materials Science</i> , 1995 , 30, 4912-4925	4.9	26
283	Second law analysis of combined heat and mass transfer phenomena in external flow. <i>Energy</i> , 1989 , 14, 67-73	7.9	26
282	Natural convection in a porous layer heated and cooled along one vertical side. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 1879-1891	4.9	26
281	A Rapid Response Thin-Film Plasmonic-Thermoelectric Light Detector. <i>Scientific Reports</i> , 2016 , 6, 37564	4.9	26
280	Compound ex vivo and in silico method for hemodynamic analysis of stented arteries. <i>PLoS ONE</i> , 2013 , 8, e58147	3.7	25
279	On ejecting colloids against capillarity from sub-micrometer openings: on-demand dielectrophoretic nanoprinting. <i>Advanced Materials</i> , 2010 , 22, 4701-5	24	25
278	Size reduction of nanoparticle ink patterns by fluid-assisted dewetting. <i>Applied Physics Letters</i> , 2006 , 88, 131903	3.4	25
277	Wave structure in the contact line region during high speed droplet impact on a surface: Solution of the Riemann problem for the stiffened gas equation of state. <i>Journal of Applied Physics</i> , 2003 , 93, 3090-3097	2.5	25
276	An Investigation of Key Factors Affecting Solder Microdroplet Deposition. <i>Journal of Heat Transfer</i> , 1998 , 120, 259-270	1.8	25
275	The effect of a third diffusing component on the onset of convection in a horizontal porous layer. <i>Physics of Fluids</i> , 1985 , 28, 3172		25
274	Microengineered biosynthesized cellulose as anti-fibrotic in vivo protection for cardiac implantable electronic devices. <i>Biomaterials</i> , 2020 , 229, 119583	15.6	25
273	Full-Spectrum Flexible Color Printing at the Diffraction Limit. <i>ACS Photonics</i> , 2016 , 3, 754-757	6.3	25
272	3D-Printed Surface Architecture Enhancing Superhydrophobicity and Viscous Droplet Repellency. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43275-43281	9.5	25

271	Length Scale of Diffusive Phonon Transport in Suspended Thin Silicon Nanowires. <i>Nano Letters</i> , 2017 , 17, 276-283	11.5	24
270	Nanoprinting organic molecules at the quantum level. <i>Nature Communications</i> , 2019 , 10, 1880	17.4	24
269	Printable Nanoscopic Metamaterial Absorbers and Images with Diffraction-Limited Resolution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11690-7	9.5	24
268	Morphing surfaces enable acoustophoretic contactless transport of ultrahigh-density matter in air. <i>Scientific Reports</i> , 2013 , 3, 3176	4.9	24
267	Ex vivo and in vivo coronary ostial locations in humans. <i>Surgical and Radiologic Anatomy</i> , 2009 , 31, 597-604	4.4	24
266	Freezing dynamics of molten solder droplets impacting onto flat substrates in reduced gravity. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 3513-3528	4.9	24
265	Thickness Variation of a Liquid Sheet Formed by Two Impinging Jets Using Holographic Interferometry. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1998 , 120, 482-487	2.1	24
264	Three-dimensional aspects of cylinder drag reduction by suction and oscillatory blowing. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 45, 109-127	2.4	23
263	A novel 3D integrated platform for the high-resolution study of cell migration plasticity. <i>Macromolecular Bioscience</i> , 2013 , 13, 973-83	5.5	23
262	Schemes for and Mechanisms of Reduction in Thermal Conductivity in Nanostructured Thermoelectrics. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	23
261	Disk-shaped packed bed micro-reactor for butane-to-syngas processing. <i>Chemical Engineering Science</i> , 2008 , 63, 5193-5201	4.4	23
260	Numerical Study of Transient High Rayleigh Number Convection in an Attic-Shaped Porous Layer. <i>Journal of Heat Transfer</i> , 1983 , 105, 476-484	1.8	23
259	Drug deposition in coronary arteries with overlapping drug-eluting stents. <i>Journal of Controlled Release</i> , 2016 , 238, 1-9	11.7	22
258	Large area crystallization of amorphous Si with overlapping high repetition rate laser pulses. <i>Thin Solid Films</i> , 2012 , 520, 6724-6729	2.2	22
257	Contactless transport of acoustically levitated particles. <i>Applied Physics Letters</i> , 2010 , 97, 161904	3.4	22
256	Natural convection in a porous cavity saturated with a non-Newtonian fluid. <i>Journal of Thermophysics and Heat Transfer</i> , 1996 , 10, 640-651	1.3	22
255	Unsteady natural convection in a porous layer. <i>Physics of Fluids</i> , 1983 , 26, 1183		22
254	A Departure From the Darcy Model in Boundary Layer Natural Convection in a Vertical Porous Layer With Uniform Heat Flux From the Side. <i>Journal of Heat Transfer</i> , 1985 , 107, 716-720	1.8	22

253	Charge effects and nanoparticle pattern formation in electrohydrodynamic NanoDrip printing of colloids. <i>Nanoscale</i> , 2016 , 8, 6028-34	7.7	21
252	Cell cycle-dependent force transmission in cancer cells. <i>Molecular Biology of the Cell</i> , 2018 , 29, 2528-2539	9.5	21
251	Phantom model of physiologic intracranial pressure and cerebrospinal fluid dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1532-8	5	21
250	On the mass transfer performance enhancement of membraneless redox flow cells with mixing promoters. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 884-894	4.9	21
249	Dielectrophoretic integration of single- and few-layer graphenes. <i>Journal of Applied Physics</i> , 2010 , 107, 034302	2.5	21
248	On the influence of variation in haemodynamic conditions on the generation and growth of cerebral aneurysms and atherogenesis: a computational model. <i>Journal of Biomechanics</i> , 2007 , 40, 3626-3640	4.0	21
247	Natural convection near 4 °C in a horizontal water layer heated from below. <i>Physics of Fluids</i> , 1984 , 27, 2608		21
246	Penetrative convection in porous medium bounded by a horizontal wall with hot and cold spots. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 1749-1757	4.9	21
245	Desublimation Frosting on Nanoengineered Surfaces. <i>ACS Nano</i> , 2018 , 12, 8288-8296	16.7	20
244	Computational modeling of vortex shedding in water cooling of 3D integrated electronics. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 44, 745-755	2.4	20
243	A thermally self-sustained micro-power plant with integrated micro-solid oxide fuel cells, micro-reformer and functional micro-fluidic carrier. <i>Journal of Power Sources</i> , 2014 , 258, 434-440	8.9	20
242	Large-scale integration of single-walled carbon nanotubes and graphene into sensors and devices using dielectrophoresis: A review. <i>Journal of Materials Research</i> , 2011 , 26, 1561-1571	2.5	20
241	Recrystallization of picosecond laser-melted ZnO nanoparticles in a liquid: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2010 , 132, 164504	3.9	20
240	A fast hybrid start-up process for thermally self-sustained catalyticn-butane reforming in micro-SOFC power plants. <i>Energy and Environmental Science</i> , 2011 , 4, 3041	35.4	20
239	Wall stress of the cervical carotid artery in patients with carotid dissection: a case-control study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H1451-8	5.2	20
238	Exergetic analysis and optimization of a solar-powered reformed methanol fuel cell micro-powerplant. <i>Journal of Power Sources</i> , 2010 , 195, 1676-1687	8.9	20
237	Combined local microchannel-scale CFD modeling and global chip scale network modeling for electronics cooling design. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1004-1014	4.9	20
236	3-D InGaAs/GaAs Helical Nanobelts for Optoelectronic Devices. <i>International Journal of Optomechatronics</i> , 2008 , 2, 88-103	3.5	20

235	Laser-induced motion in nanoparticle suspension droplets on a surface. <i>Physics of Fluids</i> , 2005 , 17, 1021064	4.4	20
234	Onset of convection in a horizontal porous layer saturated with cold water. <i>International Journal of Heat and Mass Transfer</i> , 1985 , 28, 1899-1905	4.9	20
233	Contactless prompt tumbling rebound of drops from a sublimating slope. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	20
232	HOLOGRAPHY EXPERIMENTS IN THE BREAKUP REGION OF A LIQUID SHEET FORMED BY TWO IMPINGING JETS. <i>Atomization and Sprays</i> , 1995 , 5, 387-402	1.2	20
231	HOT WATER COOLED HEAT SINKS FOR EFFICIENT DATA CENTER COOLING: TOWARDS ELECTRONIC COOLING WITH HIGH EXERGETIC UTILITY. <i>Frontiers in Heat and Mass Transfer</i> , 2010 , 1,		20
230	Superhydrophobic surfaces for extreme environmental conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27188-27194	11.5	20
229	Leidenfrost droplet trampolining. <i>Nature Communications</i> , 2021 , 12, 1727	17.4	20
228	Metals by Micro-Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 1910491	15.6	20
227	Large heat junction thermal resistance reduction in electronics by interface nanoengineering. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 5183-5183	4.9	19
226	On two-phase flow patterns and transition criteria in aqueous methanol and CO2 mixtures in adiabatic, rectangular microchannels. <i>International Journal of Multiphase Flow</i> , 2009 , 35, 760-772	3.6	19
225	Remeshed smoothed particle hydrodynamics for the simulation of laminar chemically reactive flows. <i>Journal of Computational Physics</i> , 2003 , 191, 1-17	4.1	19
224	A study of laminar film condensation on a vertical surface with a porous coating. <i>International Communications in Heat and Mass Transfer</i> , 1989 , 16, 181-192	5.8	19
223	Solidification of an alloy in a cavity cooled through its top surface. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 427-434	4.9	19
222	Radiative lifetime-encoded unicolour security tags using perovskite nanocrystals. <i>Nature Communications</i> , 2021 , 12, 981	17.4	19
221	Residence times and basins of attraction for a realistic right internal carotid artery with two aneurysms. <i>Biorheology</i> , 2002 , 39, 387-93	1.7	19
220	Effect of washcoat diffusion resistance in foam based catalytic reactors. <i>Chemical Engineering Journal</i> , 2015 , 276, 388-397	14.7	18
219	Pyramidal direct methanol fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 1516-1528	4.9	18
218	Pulsatile Blood Flow in Anatomically Accurate Vessels with Multiple Aneurysms: A Medical Intervention Planning Application of Computational Haemodynamics. <i>Flow, Turbulence and Combustion</i> , 2003 , 71, 333-346	2.5	18

217	Site-specific deposition of single gold nanoparticles by individual growth in electrohydrodynamically-printed attoliter droplet reactors. <i>Nanoscale</i> , 2015 , 7, 9510-9	7.7	17
216	Water-Based Scalable Methods for Self-Cleaning Antibacterial ZnO-Nanostructured Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14323-14333	3.9	17
215	Synergistic integration of Ni and vertically aligned carbon nanotubes for enhanced transport properties on flexible substrates. <i>Carbon</i> , 2014 , 68, 308-318	10.4	17
214	Dielectrophoretic bending of directly printed free-standing ultra-soft nanowires. <i>Applied Physics Letters</i> , 2014 , 104, 073105	3.4	17
213	On the significance of developing boundary layers in integrated water cooled 3D chip stacks. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5222-5232	4.9	17
212	High order interpolation and differentiation using B-splines. <i>Journal of Computational Physics</i> , 2004 , 197, 253-274	4.1	17
211	Freezing of a binary alloy saturating a packed bed of spheres. <i>Journal of Thermophysics and Heat Transfer</i> , 1991 , 5, 46-53	1.3	17
210	Natural Convection in an Attic-Shaped Space Filled With Porous Material. <i>Journal of Heat Transfer</i> , 1982 , 104, 241-247	1.8	17
209	Exploiting radiative cooling for uninterrupted 24-hour water harvesting from the atmosphere. <i>Science Advances</i> , 2021 , 7,	14.3	17
208	A Novel Bioreactor System for the Assessment of Endothelialization on Deformable Surfaces. <i>Scientific Reports</i> , 2016 , 6, 38861	4.9	17
207	Colloidal HgTe Quantum Dot/Graphene Phototransistor with a Spectral Sensitivity Beyond 3 μ m. <i>Advanced Science</i> , 2021 , 8, 2003360	13.6	17
206	Sub-micron lateral topography affects endothelial migration by modulation of focal adhesion dynamics. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 035010	3.5	16
205	Catalytic porous ceramic prepared in-situ by sol-gelation for butane-to-syngas processing in microreactors. <i>AIChE Journal</i> , 2009 , 55, 1849-1859	3.6	16
204	Three-dimensional presolidification heat transfer and fluid dynamics in molten microdroplet deposition. <i>International Journal of Heat and Fluid Flow</i> , 2002 , 23, 232-241	2.4	16
203	Fuel Cell Modeling and Simulations. <i>Chimia</i> , 2004 , 58, 857-868	1.3	16
202	Cascade Freezing of Supercooled Water Droplet Collectives. <i>ACS Nano</i> , 2018 , 12, 11274-11281	16.7	16
201	On-Demand Laser Printing of Picoliter-Sized, Highly Viscous, Adhesive Fluids: Beyond Inkjet Limitations. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800440	4.6	15
200	Vortex shedding from confined micropin arrays. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 231-242	2.8	15

199	Pore scale modeling of cold-start emissions in foam based catalytic reactors. <i>Chemical Engineering Science</i> , 2015 , 138, 446-456	4.4	15
198	Analysis of conjugated heat transfer in micro-heat exchangers via integral transforms and non-intrusive optical techniques. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2015 , 25, 1444-1462	4.5	15
197	A nanoparticle bed micro-reactor with high syngas yield for moderate temperature micro-scale SOFC power plants. <i>Chemical Engineering Science</i> , 2012 , 84, 469-478	4.4	15
196	A micro heater platform with fluid channels for testing micro-solid oxide fuel cell components. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 218-224	8.5	15
195	Modeling the temperature field in the reforming anode of a button-shaped solid oxide fuel cell. <i>Electrochimica Acta</i> , 2009 , 54, 6234-6243	6.7	15
194	On vapor bubble formation around heated nanoparticles in liquids. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2246-2259	4.9	15
193	THERMAL INSTABILITY IN A HORIZONTAL FLUID LAYER SUPERPOSED ON A HEAT-GENERATING POROUS BED. <i>Numerical Heat Transfer</i> , 1987 , 12, 83-99		15
192	Design and packaging of a highly integrated microreactor system for high-temperature on-board hydrogen production. <i>Chemical Engineering Journal</i> , 2015 , 275, 206-219	14.7	14
191	Selective parallel integration of individual metallic single-walled carbon nanotubes from heterogeneous solutions. <i>Langmuir</i> , 2010 , 26, 10419-24	4	14
190	A mathematical method for the 3D analysis of rotating deformable systems applied on lumen-forming MDCK cell aggregates. <i>Cytoskeleton</i> , 2010 , 67, 224-40	2.4	14
189	Analytical solution for pulsatile viscous flow in a straight elliptic annulus and application to the motion of the cerebrospinal fluid. <i>Physics of Fluids</i> , 2008 , 20, 093607	4.4	14
188	Fast and exergy efficient start-up of micro-solid oxide fuel cell systems by using the reformer or the post-combustor for start-up heating. <i>Journal of Power Sources</i> , 2008 , 182, 558-564	8.9	14
187	Impact and Solidification of Molten-Metal Droplets on Electronic Substrates. <i>Journal of Heat Transfer</i> , 1998 , 120, 539-539	1.8	14
186	Selective Etching of Graphene Membrane Nanopores: From Molecular Sieving to Extreme Permeance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36468-36477	9.5	14
185	On the shedding of impaled droplets: The role of transient intervening layers. <i>Scientific Reports</i> , 2016 , 6, 18875	4.9	14
184	Surface Chemical Tuning of Phonon and Electron Transport in Free-Standing Silicon Nanowire Arrays. <i>Nano Letters</i> , 2016 , 16, 6364-6370	11.5	14
183	Dropwise condensation on superhydrophobic nanostructured surfaces: literature review and experimental analysis. <i>Journal of Physics: Conference Series</i> , 2014 , 501, 012028	0.3	13
182	A robust algorithm for segmenting and tracking clustered cells in time-lapse fluorescent microscopy. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 862-9	7.2	13

181	Transparent Photothermal Metasurfaces Amplifying Superhydrophobicity by Absorbing Sunlight. <i>ACS Nano</i> , 2020 , 14, 11712-11721	16.7	13
180	Endothelialization of Rationally Microtextured Surfaces with Minimal Cell Seeding Under Flow. <i>Small</i> , 2016 , 12, 4113-26	11	13
179	Cellogram: On-the-Fly Traction Force Microscopy. <i>Nano Letters</i> , 2019 , 19, 6742-6750	11.5	12
178	T wave morphology changes during hemodialysis. <i>Journal of Electrocardiology</i> , 2013 , 46, 492-6	1.4	12
177	Assessment of intracranial dynamics in hydrocephalus: effects of viscoelasticity on the outcome of infusion tests. <i>Journal of Neurosurgery</i> , 2013 , 119, 1511-9	3.2	12
176	Predictive factors and therapeutic approach of renovascular disease: four years' follow-up. <i>Renal Failure</i> , 2008 , 30, 965-70	2.9	12
175	Boundary conditions by Schwarz-Christoffel mapping in anatomically accurate hemodynamics. <i>Annals of Biomedical Engineering</i> , 2008 , 36, 2068-84	4.7	12
174	Oscillatory behavior of nanodroplets. <i>Physical Review E</i> , 2004 , 70, 011505	2.4	12
173	Laser based hybrid inkjet printing of nanoink for flexible electronics 2005 , 5713, 97		12
172	Reconstruction of cerebrospinal fluid flow in the third ventricle based on MRI data. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 786-93	0.9	12
171	A simplified approach to hotspot alleviation in microprocessors. <i>Applied Thermal Engineering</i> , 2016 , 93, 1314-1323	5.8	11
170	Pore Shape Defines Paths of Metastatic Cell Migration. <i>Nano Letters</i> , 2018 , 18, 2140-2147	11.5	11
169	Computational Modeling of Hot-Spot Identification and Control in 3-D Stacked Chips with Integrated Cooling. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 65, 201-215	2.3	11
168	Waste heat recovery in supercomputers and 3D integrated liquid cooled electronics 2012 ,		11
167	Syngas generation from n-butane with an integrated MEMS assembly for gas processing in micro-solid oxide fuel cell systems. <i>Lab on A Chip</i> , 2012 , 12, 4894-902	7.2	11
166	A detailed surface reaction model for syngas production from butane over Rhodium catalyst. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12238-12248	6.7	11
165	Combining magnetic resonance measurements with numerical simulations [Extracting blood flow physiology information relevant to the investigation of intracranial aneurysms in the circle of Willis. <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 1032-1039	2.4	11
164	Local control of electric current driven shell etching of multiwalled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 133-139	2.6	11

163	Dual Pulsating or Steady Slot Jet Cooling of a Constant Heat Flux Surface. <i>Journal of Heat Transfer</i> , 2003 , 125, 575-586	1.8	11
162	Phase change of a confined subcooled simple liquid in a nanoscale cavity. <i>Physical Review E</i> , 2005 , 71, 041602	2.4	11
161	Freezing of a water-saturated inclined packed bed of beads. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 3583-3592	4.9	11
160	Experiments on Forced Convection From a Horizontal Heated Plate in a Packed Bed of Glass Spheres. <i>Journal of Heat Transfer</i> , 1989 , 111, 59-65	1.8	11
159	Interaction Between Film Condensation on One Side of a Vertical Wall and Natural Convection on the Other Side. <i>Journal of Heat Transfer</i> , 1986 , 108, 560-566	1.8	11
158	TRANSPORT PHENOMENA IN THE IMPACT OF A MOLTEN DROPLET ON A SURFACE: MACROSCOPIC PHENOMENOLOGY AND MICROSCOPIC CONSIDERATIONS PART I: FLUID DYNAMICS. <i>Annual Review of Heat Transfer</i> , 2000 , 11, 65-144	2.7	11
157	A low-temperature co-fired ceramic micro-reactor system for high-efficiency on-site hydrogen production. <i>Journal of Power Sources</i> , 2015 , 273, 1202-1217	8.9	10
156	Acoustic levitator for contactless motion and merging of large droplets in air. <i>Journal of Applied Physics</i> , 2012 , 112, 053510	2.5	10
155	Open-atmosphere sustenance of highly volatile attoliter-size droplets on surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13255-60	11.5	10
154	Maskless writing of a flexible nanoscale transistor with Au-contacted carbon nanotube electrodes. <i>Applied Physics Letters</i> , 2007 , 91, 243118	3.4	10
153	Multistage polymer electrolyte fuel cells based on nonuniform cell potential distribution functions. <i>Electrochemistry Communications</i> , 2005 , 7, 773-780	5.1	10
152	A Two-Wavelength Holographic Interferometry Study on the Solidification of a Binary Alloy Around a Horizontal Pipe. <i>Journal of Heat Transfer</i> , 1992 , 114, 998-1010	1.8	10
151	Mixed convection experiments about a horizontal isothermal surface embedded in a water-saturated packed bed of spheres. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 1370-1373	4.9	10
150	Experiments on the cooling by natural convection of an array of vertical heated plates with constant heat flux. <i>International Journal of Heat and Fluid Flow</i> , 1987 , 8, 313-319	2.4	10
149	Detergency and Its Implications for Oil Emulsion Sieving and Separation. <i>Langmuir</i> , 2017 , 33, 4250-4259	4	9
148	Self-Sustained Cascading Coalescence in Surface Condensation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27435-27442	9.5	9
147	Proximal gap-plasmon nanoresonators in the limit of vanishing inter-cavity separation. <i>Nanoscale</i> , 2014 , 6, 10274-80	7.7	9
146	Comparison of flame-made rhodium on Al ₂ O ₃ or Ce _{0.5} Zr _{0.5} O ₂ supports for the partial oxidation of methane. <i>Applied Catalysis A: General</i> , 2014 , 469, 275-283	5.1	9

145	Electrochemical impedance spectroscopy analysis of a thin polymer film-based micro-direct methanol fuel cell. <i>Journal of Power Sources</i> , 2010 , 195, 7548-7558	8.9	9
144	On double diffusion in a Brinkman heat generating porous layer. <i>International Communications in Heat and Mass Transfer</i> , 1985 , 12, 149-158	5.8	9
143	Sprayable Thin and Robust Carbon Nanofiber Composite Coating for Extreme Jumping Dropwise Condensation Performance. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001176	4.6	9
142	High-Efficiency, Extreme-Numerical-Aperture Metasurfaces Based on Partial Control of the Phase of Light. <i>Advanced Optical Materials</i> , 2018 , 6, 1800852	8.1	9
141	Single entity resolution valving of nanoscopic species in liquids. <i>Nature Nanotechnology</i> , 2018 , 13, 578-582	8.7	9
140	Facile endothelium protection from TNF- α inflammatory insult with surface topography. <i>Biomaterials</i> , 2017 , 138, 131-141	15.6	8
139	On cell separation with topographically engineered surfaces. <i>Biointerphases</i> , 2013 , 8, 34	1.8	8
138	Controlled free-form fabrication of nanowires by dielectrophoretic dispersion of colloids. <i>Applied Physics Letters</i> , 2009 , 95, 033111	3.4	8
137	Diffusion and reaction controlled dissolution of oxygen microbubbles in blood. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5013-5019	4.9	8
136	Interfacial mixing during annealing of zinc oxide nanoparticle junctions. <i>Applied Physics Letters</i> , 2011 , 98, 211904	3.4	8
135	Contactless transport of matter in the first five resonance modes of a line-focused acoustic manipulator. <i>Journal of the Acoustical Society of America</i> , 2012 , 131, 1029-38	2.2	8
134	Marangoni and Variable Viscosity Phenomena in Picoliter Size Solder Droplet Deposition. <i>Journal of Heat Transfer</i> , 2003 , 125, 365-376	1.8	8
133	Holography experiments in a dense high-speed impinging jet spray. <i>Journal of Propulsion and Power</i> , 1996 , 12, 341-348	1.8	8
132	On the Effect of Surface Roughness on the Vapor Flow Under Leidenfrost-Levitated Droplets. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1995 , 117, 519-525	2.1	8
131	ON QUANTIFYING INTERFACIAL THERMAL RESISTANCE AND SURFACE ENERGY DURING MOLTEN MICRODROPLET SURFACE DEPOSITION. <i>Atomization and Sprays</i> , 2003 , 13, 11	1.2	8
130	Identification of atherosclerotic lesion-prone sites through patient-specific simulation of low-density lipoprotein accumulation. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 774-81	0.9	8
129	Annealing and polycrystallinity effects on the thermal conductivity of supported CVD graphene monolayers. <i>Nanoscale</i> , 2017 , 9, 15515-15524	7.7	7
128	Modeling the interaction of microbubbles: Effects of proximity, confinement, and excitation amplitude. <i>Physics of Fluids</i> , 2014 , 26, 062106	4.4	7

127	The breakup of intravascular microbubbles and its impact on the endothelium. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 611-624	3.8	7
126	Self-Contained, Oscillating Flow Liquid Cooling System for Thin Form Factor High Performance Electronics. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	7
125	Surface segregation of bimetallic alloys in nanoscale confinement. <i>Applied Physics Letters</i> , 2010 , 97, 1531-1534	1.7	7
124	The role of the carotid sinus in the reduction of arterial wall stresses due to head movements–potential implications for cervical artery dissection. <i>Journal of Biomechanics</i> , 2009 , 42, 755-619	2.9	7
123	Fabricating devices with dielectrophoretically assembled, suspended single walled carbon nanotubes for improved nanoelectronic device characterization. <i>Microelectronic Engineering</i> , 2011 , 88, 2740-2743	2.5	7
122	Heat and fluid flow processes during the coating of a moving surface. <i>Journal of Thermophysics and Heat Transfer</i> , 1991 , 5, 192-198	1.3	7
121	Transient solidification of a binary mixture in an inclined rectangular cavity. <i>Journal of Thermophysics and Heat Transfer</i> , 1992 , 6, 326-332	1.3	7
120	SOLIDIFICATION OF A BINARY ALLOY FROM A COLD WIRE OR PIPE: MODELING OF THE MIXED-PHASE REGION. <i>Numerical Heat Transfer; Part A: Applications</i> , 1989 , 15, 197-219	2.3	7
119	Transient double diffusion in a stably stratified fluid layer heated from below. <i>International Journal of Heat and Fluid Flow</i> , 1990 , 11, 30-39	2.4	7
118	Flow film boiling from a sphere and a horizontal cylinder embedded in porous medium. <i>Journal of Thermophysics and Heat Transfer</i> , 1988 , 2, 359-364	1.3	7
117	GROWTH OF A SOLID FROM A LINE HEAT SINK IN A BINARY ALLOY. <i>Numerical Heat Transfer</i> , 1988 , 14, 113-126		7
116	TRANSPORT PHENOMENA IN THE IMPACT OF A MOLTEN DROPLET ON A SURFACE: PART II: HEAT TRANSFER AND SOLIDIFICATION. <i>Annual Review of Heat Transfer</i> , 2000 , 11, 145-206	2.7	7
115	Two-Dimensional Drexhage Experiment for Electric- and Magnetic-Dipole Sources on Plasmonic Interfaces. <i>Physical Review Letters</i> , 2018 , 121, 113601	7.4	7
114	Optimized Topological and Topographical Expansion of Epithelia. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3922-3934	5.5	6
113	Role of the nuclear membrane protein Emerin in front-rear polarity of the nucleus. <i>Nature Communications</i> , 2020 , 11, 2122	17.4	6
112	Bitumen surface microstructure evolution in subzero environments. <i>Journal of Microscopy</i> , 2020 , 279, 3-15	1.9	6
111	Honeycomb-structured metasurfaces for the adaptive nesting of endothelial cells under hemodynamic loads. <i>Biomaterials Science</i> , 2018 , 6, 2726-2737	7.4	6
110	The impact of arteriovenous fistula creation in pulmonary hypertension: measurement of pulmonary pressures by right heart catheterization in a patient with respiratory failure following arteriovenous fistula creation. <i>Hemodialysis International</i> , 2012 , 16, 553-5	1.7	6

109	Label-free detection of cell-contractile activity with lipid nanotubes. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 423-30	3.7	6
108	Craniospinal pressure-volume dynamics in phantom models. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3482-90	5	6
107	Metabolic syndrome in chronic kidney disease and renal transplant patients in North India. <i>International Urology and Nephrology</i> , 2012 , 44, 937-43	2.3	6
106	Compact Thermal Model for the Transient Temperature Prediction of a Water-Cooled Microchip Module in Low Carbon Emission Computing. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011 , 59, 815-835	3.3	6
105	Millimeter-wave on-chip solenoid inductor by on-demand three-dimensional printing of colloidal nanoparticles. <i>Applied Physics Letters</i> , 2010 , 97, 243109	3.4	6
104	Experiments on double-diffusion in a composite system comprised of a packed layer of spheres and an underlying fluid layer. <i>Heat and Mass Transfer</i> , 1997 , 32, 181-191	2.2	6
103	Explosive vaporization and microbubble oscillations on submicron width thin film strip heaters. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4427-4438	4.9	6
102	High Rayleigh Number Experiments in a Horizontal Layer of Water Around Its Density Maximum. <i>Journal of Heat Transfer</i> , 1989 , 111, 578-581	1.8	6
101	Transient Double Diffusion in a Fluid Layer Extending Over a Permeable Substrate. <i>Journal of Heat Transfer</i> , 1991 , 113, 148-157	1.8	6
100	Conjugate film condensation and natural convection along the interface between a porous and an open space. <i>International Journal of Heat and Mass Transfer</i> , 1986 , 29, 1747-1758	4.9	6
99	An optical technique for the in-situ measurement of species concentration in double diffusive convection. <i>International Communications in Heat and Mass Transfer</i> , 1987 , 14, 3-10	5.8	6
98	Mixed convection from a rotating horizontal heated cylinder placed in a low-speed wind tunnel. <i>International Journal of Heat and Fluid Flow</i> , 1988 , 9, 165-173	2.4	6
97	Non-Newtonian natural convection at a melting front in a permeable solid matrix. <i>International Communications in Heat and Mass Transfer</i> , 1988 , 15, 593-603	5.8	6
96	Melting of an ice surface in porous medium. <i>Journal of Thermophysics and Heat Transfer</i> , 1988 , 2, 352-358.	3.3	6
95	Melting of a Solid in Porous Medium Induced by Free Convection of a Warm Dissimilar Fluid. <i>Journal of Heat Transfer</i> , 1988 , 110, 520-523	1.8	6
94	Contactless Transport and Mixing of Liquids on Self-Sustained Sublimating Coatings. <i>Langmuir</i> , 2017 , 33, 1799-1809	4	5
93	On the Permeability of Fractal Tube Bundles. <i>Transport in Porous Media</i> , 2012 , 94, 747-757	3.1	5
92	On the behavior of a coupled transient flamelet/pdf transport equation model for nonpremixed turbulent flames. <i>Combustion Science and Technology</i> , 2003 , 175, 1729-1760	1.5	5

91	Computational simulation of the blood separation process. <i>Artificial Organs</i> , 2005 , 29, 665-74	2.6	5
90	Double Diffusion in a Liquid Layer Underlying a Permeable Solid Region. <i>Numerical Heat Transfer; Part A: Applications</i> , 1993 , 24, 427-449	2.3	5
89	FREEZE COATING OF A MOVING SUBSTRATE WITH A BINARY ALLOY. <i>Numerical Heat Transfer; Part A: Applications</i> , 1991 , 20, 409-432	2.3	5
88	Solidification of a binary mixture saturating an inclined bed of packed spheres. <i>International Journal of Heat and Fluid Flow</i> , 1993 , 14, 268-278	2.4	5
87	Transient double-diffusive convection experiments in a horizontal fluid layer extending over a bed of spheres. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989 , 1, 480-489		5
86	Turbulent forced convective cooling of microelectronic devices. <i>International Journal of Heat and Fluid Flow</i> , 1990 , 11, 105-113	2.4	5
85	An experimental study of the effect of wall temperature nonuniformity on natural convection in an enclosure heated from the side. <i>International Journal of Heat and Fluid Flow</i> , 1986 , 7, 258-265	2.4	5
84	Enhanced Atmospheric Water Harvesting with Sunlight-Activated Sorption Ratcheting.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	5
83	HOLOGRAPHIC INVESTIGATION OF THE EFFECT OF ELEVATED AMBIENT TEMPERATURE ON THE ATOMIZATION CHARACTERISTICS OF IMPINGING JET SPRAYS. <i>Atomization and Sprays</i> , 1997 , 7, 123-142	1.2	5
82	Three-dimensional concentration of light in deeply sub-wavelength, laterally tapered gap-plasmon nanocavities. <i>Applied Physics Letters</i> , 2016 , 108, 221108	3.4	5
81	Temperature-Dependent Charge Carrier Transfer in Colloidal Quantum Dot/Graphene Infrared Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 848-856	9.5	5
80	Ultrathin Lubricant-Infused Vertical Graphene Nanoscaffolds for High-Performance Dropwise Condensation. <i>ACS Nano</i> , 2021 , 15, 14305-14315	16.7	5
79	3D electrohydrodynamic printing and characterisation of highly conductive gold nanowalls. <i>Nanoscale</i> , 2020 , 12, 20158-20164	7.7	4
78	In situ assembly in confined spaces of coated particle scaffolds as thermal underfills with extraordinary thermal conductivity. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 838-44	9.5	4
77	Advanced liquid cooling in HCPVT systems to achieve higher energy efficiencies 2013 ,		4
76	Thermally enhanced solubility for the shrinking of a nanoink droplet in a surrounding liquid. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 222-231	4.9	4
75	3D Integrated Water Cooling of a Composite Multilayer Stack of Chips 2010 ,		4
74	Dropwise deposition and wetting of nanoparticle suspensions. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 250-262	2.4	4

73	Fabrication of multilayer passive electric components using inkjet printing and low temperature laser processing on polymer 2006 ,		4
72	Explosive vaporization in microenclosures. <i>Experimental Thermal and Fluid Science</i> , 2006 , 30, 829-836	3	4
71	Subtractive Laser Processing of Low Temperature Inkjet Printed Micro Electric Components of Functional Nano-Ink for Flexible Electronics 2005 , 1935		4
70	A study of condensation on a vertical internally cooled pipe embedded in porous medium. <i>International Communications in Heat and Mass Transfer</i> , 1986 , 13, 181-192	5.8	4
69	Heat Transfer in Power Cables Packaged Inside Trays. <i>Journal of Heat Transfer</i> , 1992 , 114, 777-780	1.8	4
68	Laser Curing of Gold Nanoparticle Inks 2003 ,		4
67	Mechanical Fingerprint of Senescence in Endothelial Cells. <i>Nano Letters</i> , 2021 , 21, 4911-4920	11.5	4
66	Characterization of particle beds in percolating thermal underfills based on centrifugation 2014 ,		3
65	Hybrid porous media and fluid domain modeling strategy to optimize a novel staggered fin heat sink design 2013 ,		3
64	Simulation of the Postcombustor for the Treatment of Toxic and Flammable Exhaust Gases of a Micro-Solid Oxide Fuel Cell. <i>Journal of Fuel Cell Science and Technology</i> , 2009 , 6,		3
63	Fountain-pen controlled dielectrophoresis for carbon nanotube-integration in device assembly. <i>Applied Physics Letters</i> , 2008 , 93, 193104	3-4	3
62	In-situ nanorobotic soldering of three-dimensional helical nanobelts using gold nanoink 2007 ,		3
61	EMPLOYING SCANNING FORCE MICROSCOPY TO INVESTIGATE THE FREE SURFACE OF LIQUID MICROSTRUCTURES AND THEIR WETTING BEHAVIOR ON SMOOTH SURFACES: GATHERED EXPERIENCES. <i>Experimental Heat Transfer</i> , 2001 , 14, 1-25	2.4	3
60	IMPINGING JET ATOMIZATION AT ELEVATED AND SUPERCRITICAL AMBIENT TEMPERATURE AND PRESSURE CONDITIONS. <i>Experimental Heat Transfer</i> , 1998 , 11, 23-40	2.4	3
59	Real Time Microholography for In-Situ Concentration Measurements in the Vicinity of Growing Dendrites. <i>Journal of Heat Transfer</i> , 1996 , 118, 249-255	1.8	3
58	Modeling of Heat Transfer in the Surface Mounting of Electronic Components. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 1993 , 115, 373-381	2	3
57	Second-law optimization of forced convection of non-Newtonian fluids in ducts. <i>Journal of Thermophysics and Heat Transfer</i> , 1992 , 6, 540-543	1.3	3
56	Parallel-flow and counter-flow conjugate convection from a vertical insulated pipe. <i>Journal of Thermophysics and Heat Transfer</i> , 1990 , 4, 400-404	1.3	3

55	Three-Dimensional Natural Convection Experiments in an Enclosure. <i>Journal of Thermophysics and Heat Transfer</i> , 1988 , 2, 242-249	1.3	3
54	Capillary Instability of a Cylindrical Jet With an Elastic Shroud: A Model for the Breakup of an Oxidized Metal Jet. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2000 , 67, 626-628	2.7	3
53	Self-Cleaning: Engineering Fully Organic and Biodegradable Superhydrophobic Materials (Adv. Mater. Interfaces 1/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970007	4.6	3
52	Patterning of colloidal droplet deposits on soft materials. <i>Journal of Fluid Mechanics</i> , 2021 , 907,	3.7	3
51	Lipoconstruct surface topography grating size influences vascularization onset in the dorsal skinfold chamber model. <i>Acta Biomaterialia</i> , 2020 , 106, 136-144	10.8	2
50	Thermally Conductive Composite Material With Percolating Microparticles Applied as Underfill. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 840-850	1.7	2
49	Cutaneous Heat Transfer and Its Effect on Contact Heat Evoked Brain Potentials. <i>Experimental Heat Transfer</i> , 2012 , 25, 341-362	2.4	2
48	A spatially-resolved temperature-dependent model for butane reforming over rhodium catalyst. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9067-9075	6.7	2
47	Design, Fabrication and Characterization of a Gas Processing Unit Testing Platform for Micro-Solid Oxide Fuel Cells. <i>Procedia Engineering</i> , 2011 , 25, 811-814		2
46	Radially Oscillating Flow Hybrid Cooling System for Low Profile Electronics Applications. <i>IEEE Semiconductor Thermal Measurement and Management Symposium</i> , 2008 ,		2
45	MODELING OF BLOOD-WALL LOW-DENSITY LIPOPROTEIN MASS TRANSPORT IN DEPENDENCE OF SHEAR STRESS. <i>Journal of Biomechanics</i> , 2008 , 41, S277	2.9	2
44	Professor Adrian Bejan on his 60th birthday. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5759-5761	4.9	2
43	Fabrication of Inkjet Printed Flexible Electronics by Low Temperature Subtractive Laser Processing 2005 , 599		2
42	Multilayer Direct-Writing of Electrical Conductors With Gold Nanoinks Using the Fountain-Pen Principle 2005 , 1959		2
41	Rapid thermal bonding of optical fiber interconnect. <i>Journal of Applied Physics</i> , 2005 , 97, 034903	2.5	2
40	Combined natural convection and radiation from heated cylinders inside a container. <i>Journal of Thermophysics and Heat Transfer</i> , 1992 , 6, 713-720	1.3	2
39	Dynamic Response of a Liquid-Vapor Interface During Flow Film Boiling From a Sphere. <i>Journal of Heat Transfer</i> , 1987 , 109, 1051-1055	1.8	2
38	Natural convection experiments in a horizontal porous layer saturated with cold water. <i>International Journal of Heat and Fluid Flow</i> , 1988 , 9, 334-338	2.4	2

37	Defect-Tolerant Plasmonic Elliptical Resonators for Long-Range Energy Transfer. <i>ACS Nano</i> , 2019 , 13, 9048-9056	16.7	1
36	Efficacy of hemopoietic-stimulating factors in patients undergoing chronic hemodialysis. <i>Renal Failure</i> , 2011 , 33, 923-8	2.9	1
35	Batch fabrication of nanotube transducers 2007 ,		1
34	Thermal Control Architecture for a Planetary and Lunar Surface Exploration Micro-Robot. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
33	Manufacturing of Electrically Conductive Microstructures by Dropwise Printing and Laser Curing of Nanoparticle-Suspensions 2002 , 297		1
32	Marangoni and Variable Viscosity Phenomena in Picoliter Size Solder Droplet Deposition 2002 , 15		1
31	Transient Double Diffusive Convection in A Horizontal Fluid Layer Situated on Top of A Porous Substrate 1991 , 655-672		1
30	Measuring the complexity of micro and nanostructured surfaces. <i>Materials Today: Proceedings</i> , 2021 ,	1.4	1
29	Solidification of A Binary Mixture Saturating A Bed of Glass Spheres 1991 , 725-737		1
28	Enhancement of Mass and Heat Transfer Using Herringbone-Inspired Microstructures for Application in Microfluidic Redox Flow Cells 2016 ,		1
27	A Novel Hybrid Membrane VAD as First Step Toward Hemocompatible Blood Propulsion. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 716-731	4.7	1
26	Energetic Barriers of Gas Permeation across Nanoporous Graphene. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39701-39710	9.5	1
25	Dropwise condensation freezing and frosting on bituminous surfaces at subzero temperatures. <i>Construction and Building Materials</i> , 2021 , 298, 123851	6.7	1
24	Ice adhesion behavior of heterogeneous bituminous surfaces. <i>Cold Regions Science and Technology</i> , 2021 , 192, 103405	3.8	1
23	Bistability of Dielectrically Anisotropic Nematic Crystals and the Adaptation of Endothelial Collectives to Stress Fields.. <i>Advanced Science</i> , 2022 , e2102148	13.6	1
22	Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion. <i>Advanced Functional Materials</i> , 2109633	15.6	1
21	Experiments on the transient freezing of water in an inclined rectangular cavity. <i>International Journal of Heat and Fluid Flow</i> , 1991 , 12, 116-121	2.4	0
20	The Role of Tricellulin in Epithelial Jamming and Unjamming via Segmentation of Tricellular Junctions. <i>Advanced Science</i> , 2020 , 7, 2001213	13.6	0

19	Optically Stable Biocompatible Flame-made SiO ₂ -coated Y ₂ O ₃ :Tb ³⁺ Nanophosphors for Cell Imaging. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1506, 1	
18	Air Stable High Resolution OFET (Organic Field Effect Transistor) Fabrication Using Inkjet Printing and Low Temperature Selective Laser Sintering Process 2006 , 201	
17	Porous Materials as Fluid Distributors in Polymer Electrolyte Fuel Cells: A Computational Performance Analysis 2003 , 307	
16	Numerical study of non-premixed turbulent combustion in opposed jet flows. <i>Progress in Computational Fluid Dynamics</i> , 2003 , 3, 53	0.7
15	Microconductors on Polymer by Nanoink Printing and Pulsed Laser Curing 2004 , 597	
14	Phase Transition of Argon in a Nanocavity 2005 , 25	
13	Numerical Investigation of Heat Transfer From a Surface Under the Influence of Two Impinging Pulsating Slot Jets 2002 , 15	
12	TWO-PHASE HIGH SPEED FLOW IN A CREVICE BETWEEN TWO PARALLEL PLATES. <i>Chemical Engineering Communications</i> , 1993 , 120, 15-25	2.2
11	Holographic interferometry experiments on the growth of ice from a horizontal pipe. <i>International Journal of Heat and Mass Transfer</i> , 1991 , 34, 1847-1859	4.9
10	High speed flow of air-oil mixtures in converging-diverging ducts. <i>International Communications in Heat and Mass Transfer</i> , 1991 , 18, 361-372	5.8
9	Parallel-Flow and Counterflow Conjugate Convection in a Vertical Pipe. <i>Journal of Heat Transfer</i> , 1990 , 112, 797-802	1.8
8	FLOW IN A RESERVOIR FILLED WITH A NON-NEWTONIAN FLUID INDUCED BY A MOVING PLATE. <i>Chemical Engineering Communications</i> , 1990 , 98, 187-197	2.2
7	Subcooled pool film boiling from a cylinder and from a sphere placed in a liquid saturated bed of beads. <i>Journal of Thermophysics and Heat Transfer</i> , 1990 , 4, 247-250	1.3
6	Natural convection on one side of a vertical wall embedded in a Brinkman-porous medium coupled with film condensation on the other side. <i>International Journal of Heat and Fluid Flow</i> , 1987 , 8, 93-101	2.4
5	The Effect of Additives on Water Vapor Condensation on Bituminous Surfaces. <i>Journal of Testing and Evaluation</i> , 2022 , 50, 20210251	1
4	Heat Transfer and Solidification During the Impact of a Droplet on a Surface. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2002 , 159-184	0.6
3	Dropwise Condensation: Sprayable Thin and Robust Carbon Nanofiber Composite Coating for Extreme Jumping Dropwise Condensation Performance (Adv. Mater. Interfaces 1/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170002	4.6
2	Optical Metasurfaces: High-Efficiency, Extreme-Numerical-Aperture Metasurfaces Based on Partial Control of the Phase of Light (Advanced Optical Materials 22/2018). <i>Advanced Optical Materials</i> , 2018 , 6, 1870086	8.1

- 1 Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion (Adv. Funct. Mater. 17/2022). *Advanced Functional Materials*, **2022**, 32, 2270102 15.6