Dimos Poulikakos

List of Publications by Year in Descending Order

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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	Enhanced Atmospheric Water Harvesting with Sunlight-Activated Sorption Ratcheting.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	5
503	The Effect of Additives on Water Vapor Condensation on Bituminous Surfaces. *Journal of Testing and Evaluation*, **2022**, 50, 20210251	1	
502	Bistability of Dielectrically Anisotropic Nematic Crystals and the Adaptation of Endothelial Collectives to Stress Fields.. *Advanced Science*, **2022**, e2102148	13.6	1
501	Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion (Adv. Funct. Mater. 17/2022). *Advanced Functional Materials*, **2022**, 32, 2270102	15.6	
500	Measuring the complexity of micro and nanostructured surfaces. *Materials Today: Proceedings*, **2021**,	1.4	1
499	Leidenfrost droplet trampolining. *Nature Communications*, **2021**, 12, 1727	17.4	20
498	Mechanical Fingerprint of Senescence in Endothelial Cells. *Nano Letters*, **2021**, 21, 4911-4920	11.5	4
497	Exploiting radiative cooling for uninterrupted 24-hour water harvesting from the atmosphere. *Science Advances*, **2021**, 7,	14.3	17
496	Patterning of colloidal droplet deposits on soft materials. *Journal of Fluid Mechanics*, **2021**, 907,	3.7	3
495	Temperature-Dependent Charge Carrier Transfer in Colloidal Quantum Dot/Graphene Infrared Photodetectors. *ACS Applied Materials & Interfaces*, **2021**, 13, 848-856	9.5	5
494	Sprayable Thin and Robust Carbon Nanofiber Composite Coating for Extreme Jumping Dropwise Condensation Performance. *Advanced Materials Interfaces*, **2021**, 8, 2001176	4.6	9
493	A Novel Hybrid Membrane VAD as First Step Toward Hemocompatible Blood Propulsion. *Annals of Biomedical Engineering*, **2021**, 49, 716-731	4.7	1
492	Dropwise Condensation: Sprayable Thin and Robust Carbon Nanofiber Composite Coating for Extreme Jumping Dropwise Condensation Performance (Adv. Mater. Interfaces 1/2021). *Advanced Materials Interfaces*, **2021**, 8, 2170002	4.6	
491	Radiative lifetime-encoded unicolour security tags using perovskite nanocrystals. *Nature Communications*, **2021**, 12, 981	17.4	19
490	Colloidal HgTe Quantum Dot/Graphene Phototransistor with a Spectral Sensitivity Beyond 3 μm. *Advanced Science*, **2021**, 8, 2003360	13.6	17
489	Energetic Barriers of Gas Permeation across Nanoporous Graphene. *ACS Applied Materials & Interfaces*, **2021**, 13, 39701-39710	9.5	1
488	Ultrathin Lubricant-Infused Vertical Graphene Nanoscaffolds for High-Performance Dropwise Condensation. *ACS Nano*, **2021**, 15, 14305-14315	16.7	5

487	Dropwise condensation freezing and frosting on bituminous surfaces at subzero temperatures. *Construction and Building Materials*, **2021**, 298, 123851	6.7	1
486	Ice adhesion behavior of heterogeneous bituminous surfaces. *Cold Regions Science and Technology*, **2021**, 192, 103405	3.8	1
485	Role of the nuclear membrane protein Emerin in front-rear polarity of the nucleus. *Nature Communications*, **2020**, 11, 2122	17.4	6
484	Bitumen surface microstructure evolution in subzero environments. *Journal of Microscopy*, **2020**, 279, 3-15	1.9	6
483	3D electrohydrodynamic printing and characterisation of highly conductive gold nanowalls. *Nanoscale*, **2020**, 12, 20158-20164	7.7	4
482	Water-Based Scalable Methods for Self-Cleaning Antibacterial ZnO-Nanostructured Surfaces. *Industrial & Engineering Chemistry Research*, **2020**, 59, 14323-14333	3.9	17
481	Lipoconstruct surface topography grating size influences vascularization onset in the dorsal skinfold chamber model. *Acta Biomaterialia*, **2020**, 106, 136-144	10.8	2
480	A Plasmonic Painter's Method of Color Mixing for a Continuous Red-Green-Blue Palette. *ACS Nano*, **2020**, 14, 1783-1791	16.7	34
479	Microengineered biosynthesized cellulose as anti-fibrotic in vivo protection for cardiac implantable electronic devices. *Biomaterials*, **2020**, 229, 119583	15.6	25
478	Superhydrophobic surfaces for extreme environmental conditions. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27188-27194	11.5	20
477	The Role of Tricellulin in Epithelial Jamming and Unjamming via Segmentation of Tricellular Junctions. *Advanced Science*, **2020**, 7, 2001213	13.6	0
476	Selective Etching of Graphene Membrane Nanopores: From Molecular Sieving to Extreme Permeance. *ACS Applied Materials & Interfaces*, **2020**, 12, 36468-36477	9.5	14
475	Droplet Self-Propulsion on Superhydrophobic Microtracks. *ACS Nano*, **2020**, 14, 12895-12904	16.7	28
474	Transparent Photothermal Metasurfaces Amplifying Superhydrophobicity by Absorbing Sunlight. *ACS Nano*, **2020**, 14, 11712-11721	16.7	13
473	Tricellulin: The Role of Tricellulin in Epithelial Jamming and Unjamming via Segmentation of Tricellular Junctions (Adv. Sci. 15/2020). *Advanced Science*, **2020**, 7, 2070085	13.6	78
472	Metals by Micro-Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. *Advanced Functional Materials*, **2020**, 30, 1910491	15.6	20
471	Wetting transitions in droplet drying on soft materials. *Nature Communications*, **2019**, 10, 4776	17.4	28
470	Cellogram: On-the-Fly Traction Force Microscopy. *Nano Letters*, **2019**, 19, 6742-6750	11.5	12

469	Transparent Metasurfaces Counteracting Fogging by Harnessing Sunlight. *Nano Letters*, **2019**, 19, 1595-1604	11.5	33
468	Optical Metasurfaces: Evolving from Passive to Adaptive. *Advanced Optical Materials*, **2019**, 7, 1801786	8.1	59
467	Nanoprinting organic molecules at the quantum level. *Nature Communications*, **2019**, 10, 1880	17.4	24
466	Multi-metal electrohydrodynamic redox 3D printing at the submicron scale. *Nature Communications*, **2019**, 10, 1853	17.4	75
465	Optimized Topological and Topographical Expansion of Epithelia. *ACS Biomaterials Science and Engineering*, **2019**, 5, 3922-3934	5.5	6
464	Nanoprinted Quantum Dot–Graphene Photodetectors. *Advanced Optical Materials*, **2019**, 7, 1900019	8.1	37
463	Defect-Tolerant Plasmonic Elliptical Resonators for Long-Range Energy Transfer. *ACS Nano*, **2019**, 13, 9048-9056	16.7	1
462	Self-Sustained Cascading Coalescence in Surface Condensation. *ACS Applied Materials & Interfaces*, **2019**, 11, 27435-27442	9.5	9
461	Superhydrophobic hemostatic nanofiber composites for fast clotting and minimal adhesion. *Nature Communications*, **2019**, 10, 5562	17.4	85
460	Self-Cleaning: Engineering Fully Organic and Biodegradable Superhydrophobic Materials (Adv. Mater. Interfaces 1/2019). *Advanced Materials Interfaces*, **2019**, 6, 1970007	4.6	3
459	Engineering Fully Organic and Biodegradable Superhydrophobic Materials. *Advanced Materials Interfaces*, **2019**, 6, 1801202	4.6	27
458	Pore Shape Defines Paths of Metastatic Cell Migration. *Nano Letters*, **2018**, 18, 2140-2147	11.5	11
457	Thermally Conductive Composite Material With Percolating Microparticles Applied as Underfill. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 840-850	1.7	2
456	Rationally 3D-Textured Copper Surfaces for Laplace Pressure Imbalance-Induced Enhancement in Dropwise Condensation. *ACS Applied Materials & Interfaces*, **2018**, 10, 29127-29135	9.5	61
455	On-Demand Laser Printing of Picoliter-Sized, Highly Viscous, Adhesive Fluids: Beyond Inkjet Limitations. *Advanced Materials Interfaces*, **2018**, 5, 1800440	4.6	15
454	Desublimation Frosting on Nanoengineered Surfaces. *ACS Nano*, **2018**, 12, 8288-8296	16.7	20
453	A micron-scale surface topography design reducing cell adhesion to implanted materials. *Scientific Reports*, **2018**, 8, 10887	4.9	56
452	Cell cycle-dependent force transmission in cancer cells. *Molecular Biology of the Cell*, **2018**, 29, 2528-2539	3.5	21

451	Honeycomb-structured metasurfaces for the adaptive nesting of endothelial cells under hemodynamic loads. *Biomaterials Science*, **2018**, 6, 2726-2737	7.4	6
450	3D-Printed Surface Architecture Enhancing Superhydrophobicity and Viscous Droplet Repellency. *ACS Applied Materials & Interfaces*, **2018**, 10, 43275-43281	9.5	25
449	Optical Metasurfaces: High-Efficiency, Extreme-Numerical-Aperture Metasurfaces Based on Partial Control of the Phase of Light (Advanced Optical Materials 22/2018). *Advanced Optical Materials*, **2018**, 6, 1870086	8.1	
448	Cascade Freezing of Supercooled Water Droplet Collectives. *ACS Nano*, **2018**, 12, 11274-11281	16.7	16
447	High-Efficiency, Extreme-Numerical-Aperture Metasurfaces Based on Partial Control of the Phase of Light. *Advanced Optical Materials*, **2018**, 6, 1800852	8.1	9
446	Two-Dimensional Drexhage Experiment for Electric- and Magnetic-Dipole Sources on Plasmonic Interfaces. *Physical Review Letters*, **2018**, 121, 113601	7.4	7
445	Acoustophoretic printing. *Science Advances*, **2018**, 4, eaat1659	14.3	88
444	Single entity resolution valving of nanoscopic species in liquids. *Nature Nanotechnology*, **2018**, 13, 578-582	38.7	9
443	Metasurfaces Leveraging Solar Energy for Icephobicity. *ACS Nano*, **2018**, 12, 7009-7017	16.7	57
442	Endocytic reawakening of motility in jammed epithelia. *Nature Materials*, **2017**, 16, 587-596	27	134
441	3D-printed fluidic networks for high-power-density heat-managing miniaturized redox flow batteries. *Energy and Environmental Science*, **2017**, 10, 780-787	35.4	48
440	Exceptional Anti-Icing Performance of Self-Impregnating Slippery Surfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 10233-10242	9.5	48
439	Contactless Transport and Mixing of Liquids on Self-Sustained Sublimating Coatings. *Langmuir*, **2017**, 33, 1799-1809	4	5
438	Growth Rates and Spontaneous Navigation of Condensate Droplets Through Randomly Structured Textures. *ACS Nano*, **2017**, 11, 1673-1682	16.7	65
437	Imparting Icephobicity with Substrate Flexibility. *Langmuir*, **2017**, 33, 6708-6718	4	45
436	Facile endothelium protection from TNF-inflammatory insult with surface topography. *Biomaterials*, **2017**, 138, 131-141	15.6	8
435	Mass transport enhancement in redox flow batteries with corrugated fluidic networks. *Journal of Power Sources*, **2017**, 359, 322-331	8.9	31
434	Detergency and Its Implications for Oil Emulsion Sieving and Separation. *Langmuir*, **2017**, 33, 4250-4259	4	9

433	Length Scale of Diffusive Phonon Transport in Suspended Thin Silicon Nanowires. *Nano Letters*, **2017**, 17, 276-283	11.5	24
432	Spontaneous self-dislodging of freezing water droplets and the role of wettability. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11040-11045	11.5	54
431	Annealing and polycrystallinity effects on the thermal conductivity of supported CVD graphene monolayers. *Nanoscale*, **2017**, 9, 15515-15524	7.7	7
430	Left Ventricular Assist Devices: Challenges Toward Sustaining Long-Term Patient Care. *Annals of Biomedical Engineering*, **2017**, 45, 1836-1851	4.7	34
429	A customizable class of colloidal-quantum-dot spasers and plasmonic amplifiers. *Science Advances*, **2017**, 3, e1700688	14.3	39
428	Ultrasound-mediated piezoelectric differentiation of neuron-like PC12 cells on PVDF membranes. *Scientific Reports*, **2017**, 7, 4028	4.9	82
427	The breakup of intravascular microbubbles and its impact on the endothelium. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 611-624	3.8	7
426	On the mass transfer performance enhancement of membraneless redox flow cells with mixing promoters. *International Journal of Heat and Mass Transfer*, **2017**, 106, 884-894	4.9	21
425	A simplified approach to hotspot alleviation in microprocessors. *Applied Thermal Engineering*, **2016**, 93, 1314-1323	5.8	11
424	Drug deposition in coronary arteries with overlapping drug-eluting stents. *Journal of Controlled Release*, **2016**, 238, 1-9	11.7	22
423	Superhydrophobicity enhancement through substrate flexibility. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13307-13312	11.5	58
422	Confocal reference free traction force microscopy. *Nature Communications*, **2016**, 7, 12814	17.4	78
421	Toward Contactless Biology: Acoustophoretic DNA Transfection. *Scientific Reports*, **2016**, 6, 20023	4.9	40
420	A Nanoprinted Model of Interstitial Cancer Migration Reveals a Link between Cell Deformability and Proliferation. *ACS Nano*, **2016**, 10, 6437-48	16.7	29
419	On the Mechanism of Hydrophilicity of Graphene. *Nano Letters*, **2016**, 16, 4447-53	11.5	102
418	Printable Nanoscopic Metamaterial Absorbers and Images with Diffraction-Limited Resolution. *ACS Applied Materials & Interfaces*, **2016**, 8, 11690-7	9.5	24
417	Significant heat transfer enhancement in microchannels with herringbone-inspired microstructures. *International Journal of Heat and Mass Transfer*, **2016**, 95, 755-764	4.9	36
416	Charge effects and nanoparticle pattern formation in electrohydrodynamic NanoDrip printing of colloids. *Nanoscale*, **2016**, 8, 6028-34	7.7	21

415	Contactless prompt tumbling rebound of drops from a sublimating slope. *Physical Review Fluids*, **2016**, 1,	2.8	20
414	Electrohydrodynamic NanoDrip Printing of High Aspect Ratio Metal Grid Transparent Electrodes. *Advanced Functional Materials*, **2016**, 26, 833-840	15.6	161
413	Enhancement of Mass and Heat Transfer Using Herringbone-Inspired Microstructures for Application in Microfluidic Redox Flow Cells **2016**,		1
412	A Novel Bioreactor System for the Assessment of Endothelialization on Deformable Surfaces. *Scientific Reports*, **2016**, 6, 38861	4.9	17
411	A Rapid Response Thin-Film Plasmonic-Thermoelectric Light Detector. *Scientific Reports*, **2016**, 6, 37564	4.9	26
410	Three-dimensional concentration of light in deeply sub-wavelength, laterally tapered gap-plasmon nanocavities. *Applied Physics Letters*, **2016**, 108, 221108	3.4	5
409	On the shedding of impaled droplets: The role of transient intervening layers. *Scientific Reports*, **2016**, 6, 18875	4.9	14
408	Full-Spectrum Flexible Color Printing at the Diffraction Limit. *ACS Photonics*, **2016**, 3, 754-757	6.3	25
407	Surface Chemical Tuning of Phonon and Electron Transport in Free-Standing Silicon Nanowire Arrays. *Nano Letters*, **2016**, 16, 6364-6370	11.5	14
406	Endothelialization of Rationally Microtextured Surfaces with Minimal Cell Seeding Under Flow. *Small*, **2016**, 12, 4113-26	11	13
405	Mixing with herringbone-inspired microstructures: overcoming the diffusion limit in co-laminar microfluidic devices. *Lab on A Chip*, **2015**, 15, 1923-33	7.2	48
404	Sub-amorphous thermal conductivity in ultrathin crystalline silicon nanotubes. *Nano Letters*, **2015**, 15, 2605-11	11.5	83
403	A high-efficiency hybrid high-concentration photovoltaic system. *International Journal of Heat and Mass Transfer*, **2015**, 89, 514-521	4.9	33
402	A novel method of energy efficient hotspot-targeted embedded liquid cooling for electronics: An experimental study. *International Journal of Heat and Mass Transfer*, **2015**, 88, 684-694	4.9	62
401	Design and packaging of a highly integrated microreactor system for high-temperature on-board hydrogen production. *Chemical Engineering Journal*, **2015**, 275, 206-219	14.7	14
400	Site-specific deposition of single gold nanoparticles by individual growth in electrohydrodynamically-printed attoliter droplet reactors. *Nanoscale*, **2015**, 7, 9510-9	7.7	17
399	Effect of washcoat diffusion resistance in foam based catalytic reactors. *Chemical Engineering Journal*, **2015**, 276, 388-397	14.7	18
398	Spontaneous droplet trampolining on rigid superhydrophobic surfaces. *Nature*, **2015**, 527, 82-5	50.4	263

397	Significant thermal conductivity reduction of silicon nanowire forests through discrete surface doping of germanium. *Applied Physics Letters*, **2015**, 106, 093102	3.4	30
396	Wedge Waveguides and Resonators for Quantum Plasmonics. *Nano Letters*, **2015**, 15, 6267-75	11.5	88
395	Surface-structured bacterial cellulose with guided assembly-based biolithography (GAB). *ACS Nano*, **2015**, 9, 206-19	16.7	91
394	Physics of icing and rational design of surfaces with extraordinary icephobicity. *Langmuir*, **2015**, 31, 4807-21	4.4	228
393	A low-temperature co-fired ceramic micro-reactor system for high-efficiency on-site hydrogen production. *Journal of Power Sources*, **2015**, 273, 1202-1217	8.9	10
392	Energy efficient hotspot-targeted embedded liquid cooling of electronics. *Applied Energy*, **2015**, 138, 414-422	10.7	104
391	Superhydrophobicity vs. Ice Adhesion: The Quandary of Robust Icephobic Surface Design. *Advanced Materials Interfaces*, **2015**, 2, 1500330	4.6	38
390	Pore scale modeling of cold-start emissions in foam based catalytic reactors. *Chemical Engineering Science*, **2015**, 138, 446-456	4.4	15
389	Sub-micron lateral topography affects endothelial migration by modulation of focal adhesion dynamics. *Biomedical Materials (Bristol)*, **2015**, 10, 035010	3.5	16
388	Analysis of conjugated heat transfer in micro-heat exchangers via integral transforms and non-intrusive optical techniques. *International Journal of Numerical Methods for Heat and Fluid Flow* , **2015**, 25, 1444-1462	4.5	15
387	In situ assembly in confined spaces of coated particle scaffolds as thermal underfills with extraordinary thermal conductivity. *ACS Applied Materials & Interfaces*, **2015**, 7, 838-44	9.5	4
386	Unraveling wetting transition through surface textures with X-rays: liquid meniscus penetration phenomena. *Scientific Reports*, **2014**, 4, 4055	4.9	42
385	Highly flexible, all solid-state micro-supercapacitors from vertically aligned carbon nanotubes. *Nanotechnology*, **2014**, 25, 055401	3.4	166
384	Hemodynamics in coronary arteries with overlapping stents. *Journal of Biomechanics*, **2014**, 47, 505-11	2.9	42
383	Synergistic integration of Ni and vertically aligned carbon nanotubes for enhanced transport properties on flexible substrates. *Carbon*, **2014**, 68, 308-318	10.4	17
382	Multifunctional superhydrophobic polymer/carbon nanocomposites: graphene, carbon nanotubes, or carbon black?. *ACS Applied Materials & Interfaces*, **2014**, 6, 8859-67	9.5	101
381	Left ventricular hypertrophy and endothelial dysfunction in chronic kidney disease. *European Heart Journal Cardiovascular Imaging*, **2014**, 15, 56-61	4.1	31
380	Acoustophoretic contactless elevation, orbital transport and spinning of matter in air. *Physical Review Letters*, **2014**, 112, 024301	7.4	79

379	Computational Modeling of Hot-Spot Identification and Control in 3-D Stacked Chips with Integrated Cooling. *Numerical Heat Transfer; Part A: Applications*, **2014**, 65, 201-215	2.3	11
378	Rational nanostructuring of surfaces for extraordinary icephobicity. *Nanoscale*, **2014**, 6, 4874-81	7.7	155
377	Hierarchically nanotextured surfaces maintaining superhydrophobicity under severely adverse conditions. *Nanoscale*, **2014**, 6, 8710-9	7.7	57
376	Proximal gap-plasmon nanoresonators in the limit of vanishing inter-cavity separation. *Nanoscale*, **2014**, 6, 10274-80	7.7	9
375	Modeling the interaction of microbubbles: Effects of proximity, confinement, and excitation amplitude. *Physics of Fluids*, **2014**, 26, 062106	4.4	7
374	On the nanoengineering of superhydrophobic and impalement resistant surface textures below the freezing temperature. *Nano Letters*, **2014**, 14, 172-82	11.5	226
373	Near-field light design with colloidal quantum dots for photonics and plasmonics. *Nano Letters*, **2014**, 14, 5827-33	11.5	55
372	Dropwise condensation on superhydrophobic nanostructured surfaces: literature review and experimental analysis. *Journal of Physics: Conference Series*, **2014**, 501, 012028	0.3	13
371	Toward a rational design of surface textures promoting endothelialization. *Nano Letters*, **2014**, 14, 1069-79	11.5	53
370	The influence of surface micro-structure on endothelialization under supraphysiological wall shear stress. *Biomaterials*, **2014**, 35, 8479-86	15.6	31
369	Supercooled water drops impacting superhydrophobic textures. *Langmuir*, **2014**, 30, 10855-61	4	115
368	Flow induced by ependymal cilia dominates near-wall cerebrospinal fluid dynamics in the lateral ventricles. *Journal of the Royal Society Interface*, **2014**, 11, 20131189	4.1	73
367	Comparison of flame-made rhodium on Al2O3 or Ce0.5Zr0.5O2 supports for the partial oxidation of methane. *Applied Catalysis A: General*, **2014**, 469, 275-283	5.1	9
366	Multi-scale modelling of mass transfer limited heterogeneous reactions in open cell foams. *International Journal of Heat and Mass Transfer*, **2014**, 75, 337-346	4.9	27
365	Three-dimensional aspects of cylinder drag reduction by suction and oscillatory blowing. *International Journal of Heat and Fluid Flow*, **2014**, 45, 109-127	2.4	23
364	Characterization of particle beds in percolating thermal underfills based on centrifugation **2014**,		3
363	Rapid-response low infrared emission broadband ultrathin plasmonic light absorber. *Scientific Reports*, **2014**, 4, 7181	4.9	26
362	Dielectrophoretic bending of directly printed free-standing ultra-soft nanowires. *Applied Physics Letters*, **2014**, 104, 073105	3.4	17

361	A thermally self-sustained micro-power plant with integrated micro-solid oxide fuel cells, micro-reformer and functional micro-fluidic carrier. *Journal of Power Sources*, **2014**, 258, 434-440	8.9	20
360	Performance of randomized Kelvin cell structures as catalytic substrates: Mass-transfer based analysis. *Chemical Engineering Science*, **2014**, 112, 143-151	4.4	45
359	Water drops dancing on ice: how sublimation leads to drop rebound. *Physical Review Letters*, **2013**, 111, 014501	7.4	82
358	Microvortex-enhanced heat transfer in 3D-integrated liquid cooling of electronic chip stacks. *International Journal of Heat and Mass Transfer*, **2013**, 65, 33-43	4.9	45
357	A novel 3D integrated platform for the high-resolution study of cell migration plasticity. *Macromolecular Bioscience*, **2013**, 13, 973-83	5.5	23
356	Thermofluidics and energetics of a manifold microchannel heat sink for electronics with recovered hot water as working fluid. *International Journal of Heat and Mass Transfer*, **2013**, 58, 135-151	4.9	47
355	An experimentally optimized model for heat and mass transfer in direct contact membrane distillation. *International Journal of Heat and Mass Transfer*, **2013**, 66, 855-867	4.9	85
354	Vortex shedding from confined micropin arrays. *Microfluidics and Nanofluidics*, **2013**, 15, 231-242	2.8	15
353	Graphene mediated thermal resistance reduction at strongly coupled interfaces. *International Journal of Heat and Mass Transfer*, **2013**, 62, 205-213	4.9	42
352	T wave morphology changes during hemodialysis. *Journal of Electrocardiology*, **2013**, 46, 492-6	1.4	12
351	Label-free detection of cell-contractile activity with lipid nanotubes. *Integrative Biology (United Kingdom)*, **2013**, 5, 423-30	3.7	6
350	Morphing surfaces enable acoustophoretic contactless transport of ultrahigh-density matter in air. *Scientific Reports*, **2013**, 3, 3176	4.9	24
349	On cell separation with topographically engineered surfaces. *Biointerphases*, **2013**, 8, 34	1.8	8
348	A robust algorithm for segmenting and tracking clustered cells in time-lapse fluorescent microscopy. *IEEE Journal of Biomedical and Health Informatics*, **2013**, 17, 862-9	7.2	13
347	Facile multifunctional plasmonic sunlight harvesting with tapered triangle nanopatterning of thin films. *Nanoscale*, **2013**, 5, 9957-62	7.7	33
346	Hybrid porous media and fluid domain modeling strategy to optimize a novel staggered fin heat sink design **2013**,		3
345	Flow condensation on copper-based nanotextured superhydrophobic surfaces. *Langmuir*, **2013**, 29, 840-8	4	120
344	Computational modeling of vortex shedding in water cooling of 3D integrated electronics. *International Journal of Heat and Fluid Flow*, **2013**, 44, 745-755	2.4	20

343	Anomalous thermal response of silicene to uniaxial stretching. *Physical Review B*, **2013**, 87,	3.3	151
342	Accelerated endothelial wound healing on microstructured substrates under flow. *Biomaterials*, **2013**, 34, 1488-97	15.6	61
341	Acoustophoretic contactless transport and handling of matter in air. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 12549-54	11.5	195
340	Assessment of intracranial dynamics in hydrocephalus: effects of viscoelasticity on the outcome of infusion tests. *Journal of Neurosurgery*, **2013**, 119, 1511-9	3.2	12
339	Advanced liquid cooling in HCPVT systems to achieve higher energy efficiencies **2013**,		4
338	Optically Stable Biocompatible Flame-made SiO2-coated Y2O3:Tb3+ Nanophosphors for Cell Imaging. *Materials Research Society Symposia Proceedings*, **2013**, 1506, 1		
337	Open-atmosphere sustenance of highly volatile attoliter-size droplets on surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13255-60	11.5	10
336	Compound ex vivo and in silico method for hemodynamic analysis of stented arteries. *PLoS ONE*, **2013**, 8, e58147	3.7	25
335	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. *Hemodialysis International*, **2012**, 16, 553-5	1.7	6
334	Phantom model of physiologic intracranial pressure and cerebrospinal fluid dynamics. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1532-8	5	21
333	Craniospinal pressure-volume dynamics in phantom models. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 3482-90	5	6
332	Choosing the optimal wall shear parameter for the prediction of plaque location-A patient-specific computational study in human left coronary arteries. *Atherosclerosis*, **2012**, 221, 432-7	3.1	71
331	A nanoparticle bed micro-reactor with high syngas yield for moderate temperature micro-scale SOFC power plants. *Chemical Engineering Science*, **2012**, 84, 469-478	4.4	15
330	Hot water cooled electronics: Exergy analysis and waste heat reuse feasibility. *International Journal of Heat and Mass Transfer*, **2012**, 55, 6391-6399	4.9	50
329	Topography-mediated apical guidance in epidermal wound healing. *Soft Matter*, **2012**, 8, 6922	3.6	27
328	Waste heat recovery in supercomputers and 3D integrated liquid cooled electronics **2012**,		11
327	Cell Image Velocimetry (CIV): boosting the automated quantification of cell migration in wound healing assays. *Integrative Biology (United Kingdom)*, **2012**, 4, 1437-47	3.7	31
326	3D micro-structures by piezoelectric inkjet printing of gold nanofluids. *Journal of Micromechanics and Microengineering*, **2012**, 22, 055022	2	58

325	A low-frequency wave motion mechanism enables efficient energy transport in carbon nanotubes at high heat fluxes. *Nano Letters*, **2012**, 12, 3410-6	11.5	42
324	Large area crystallization of amorphous Si with overlapping high repetition rate laser pulses. *Thin Solid Films*, **2012**, 520, 6724-6729	2.2	22
323	Syngas generation from n-butane with an integrated MEMS assembly for gas processing in micro-solid oxide fuel cell systems. *Lab on A Chip*, **2012**, 12, 4894-902	7.2	11
322	Acoustic levitator for contactless motion and merging of large droplets in air. *Journal of Applied Physics*, **2012**, 112, 053510	2.5	10
321	Frost halos from supercooled water droplets. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16073-8	11.5	115
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