

Dimos Poulikakos

List of Publications by Year in descending order

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537
papers

28,230
citations

4370

86
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9553

142
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554
all docs

554
docs citations

554
times ranked

23843
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring the complexity of micro and nanostructured surfaces. <i>Materials Today: Proceedings</i> , 2022, 54, 63-72.	0.9	2
2	The Effect of Additives on Water Vapor Condensation on Bituminous Surfaces. <i>Journal of Testing and Evaluation</i> , 2022, 50, 20210251.	0.4	0
3	Focusing of Micrometer-Sized Metal Particles Enabled by Reduced Acoustic Streaming via Acoustic Forces in a Round Glass Capillary. <i>Physical Review Applied</i> , 2022, 17, .	1.5	6
4	Enhanced Atmospheric Water Harvesting with Sunlight-Activated Sorption Ratcheting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2237-2245.	4.0	36
5	Microscale investigation on interfacial slippage and detachment of ice from soft materials. <i>Materials Horizons</i> , 2022, 9, 1222-1231.	6.4	12
6	Effect of Flexibility and Size of Nanofabricated Topographies on the Mechanobactericidal Efficacy of Polymeric Surfaces. <i>ACS Applied Bio Materials</i> , 2022, 5, 1564-1575.	2.3	12
7	Bistability of Dielectrically Anisotropic Nematic Crystals and the Adaptation of Endothelial Collectives to Stress Fields. <i>Advanced Science</i> , 2022, , 2102148.	5.6	3
8	Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
9	Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion (<i>Adv. Funct. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1	7.8	10
10	Patterning of colloidal droplet deposits on soft materials. <i>Journal of Fluid Mechanics</i> , 2021, 907, .	1.4	9
11	Temperature-Dependent Charge Carrier Transfer in Colloidal Quantum Dot/Graphene Infrared Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 848-856.	4.0	16
12	Sprayable Thin and Robust Carbon Nanofiber Composite Coating for Extreme Jumping Dropwise Condensation Performance. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001176.	1.9	23
13	A Novel Hybrid Membrane VAD as First Step Toward Hemocompatible Blood Propulsion. <i>Annals of Biomedical Engineering</i> , 2021, 49, 716-731.	1.3	9
14	Dropwise Condensation: Sprayable Thin and Robust Carbon Nanofiber Composite Coating for Extreme Jumping Dropwise Condensation Performance (<i>Adv. Mater. Interfaces</i> 1/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170002.	1.9	1
15	Radiative lifetime-encoded unicolour security tags using perovskite nanocrystals. <i>Nature Communications</i> , 2021, 12, 981.	5.8	67
16	Colloidal HgTe Quantum Dot/Graphene Phototransistor with a Spectral Sensitivity Beyond 3 μm . <i>Advanced Science</i> , 2021, 8, 2003360.	5.6	30
17	Leidenfrost droplet trampolining. <i>Nature Communications</i> , 2021, 12, 1727.	5.8	79
18	Mechanical Fingerprint of Senescence in Endothelial Cells. <i>Nano Letters</i> , 2021, 21, 4911-4920.	4.5	27

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19	Exploiting radiative cooling for uninterrupted 24-hour water harvesting from the atmosphere. <i>Science Advances</i> , 2021, 7, .	4.7	100
20	On-chip transporting arresting and characterizing individual nano-objects in biological ionic liquids. <i>Science Advances</i> , 2021, 7, .	4.7	2
21	<i>Ab Initio</i> Energetic Barriers of Gas Permeation across Nanoporous Graphene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39701-39710.	4.0	4
22	Ultrathin Lubricant-Infused Vertical Graphene Nanoscaffolds for High-Performance Dropwise Condensation. <i>ACS Nano</i> , 2021, 15, 14305-14315.	7.3	23
23	Dropwise condensation freezing and frosting on bituminous surfaces at subzero temperatures. <i>Construction and Building Materials</i> , 2021, 298, 123851.	3.2	9
24	Ice adhesion behavior of heterogeneous bituminous surfaces. <i>Cold Regions Science and Technology</i> , 2021, 192, 103405.	1.6	12
25	Microengineered biosynthesized cellulose as anti-fibrotic in vivo protection for cardiac implantable electronic devices. <i>Biomaterials</i> , 2020, 229, 119583.	5.7	45
26	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.	3.3	58
27	The Role of Tricellulin in Epithelial Jamming and Unjamming via Segmentation of Tricellular Junctions. <i>Advanced Science</i> , 2020, 7, 2001213.	5.6	5
28	Selective Etching of Graphene Membrane Nanopores: From Molecular Sieving to Extreme Permeance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36468-36477.	4.0	22
29	Droplet Self-Propulsion on Superhydrophobic Microtracks. <i>ACS Nano</i> , 2020, 14, 12895-12904.	7.3	59
30	Transparent Photothermal Metasurfaces Amplifying Superhydrophobicity by Absorbing Sunlight. <i>ACS Nano</i> , 2020, 14, 11712-11721.	7.3	31
31	Tricellulin: The Role of Tricellulin in Epithelial Jamming and Unjamming via Segmentation of Tricellular Junctions (<i>Adv. Sci.</i> 15/2020). <i>Advanced Science</i> , 2020, 7, 2070085.	5.6	0
32	Role of the nuclear membrane protein Emerin in front-rear polarity of the nucleus. <i>Nature Communications</i> , 2020, 11, 2122.	5.8	20
33	Bitumen surface microstructure evolution in subzero environments. <i>Journal of Microscopy</i> , 2020, 279, 3-15.	0.8	15
34	3D electrohydrodynamic printing and characterisation of highly conductive gold nanowalls. <i>Nanoscale</i> , 2020, 12, 20158-20164.	2.8	15
35	Water-Based Scalable Methods for Self-Cleaning Antibacterial ZnO-Nanostructured Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14323-14333.	1.8	32
36	Lipoconstruct surface topography grating size influences vascularization onset in the dorsal skinfold chamber model. <i>Acta Biomaterialia</i> , 2020, 106, 136-144.	4.1	2

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37	A Plasmonic Painter's Method of Color Mixing for a Continuous Red-Green-Blue Palette. ACS Nano, 2020, 14, 1783-1791.	7.3	58
38	Metals by Micro-Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. Advanced Functional Materials, 2020, 30, 1910491.	7.8	52
39	Omnidirectional droplet propulsion on surfaces with a Pac-Man coalescence mechanism. Physical Review Fluids, 2020, 5, .	1.0	1
40	Defect-Tolerant Plasmonic Elliptical Resonators for Long-Range Energy Transfer. ACS Nano, 2019, 13, 9048-9056.	7.3	4
41	Self-Sustained Cascading Coalescence in Surface Condensation. ACS Applied Materials & Interfaces, 2019, 11, 27435-27442.	4.0	18
42	Wetting transitions in droplet drying on soft materials. Nature Communications, 2019, 10, 4776.	5.8	44
43	Cellogram: On-the-Fly Traction Force Microscopy. Nano Letters, 2019, 19, 6742-6750.	4.5	20
44	Transparent Metasurfaces Counteracting Fogging by Harnessing Sunlight. Nano Letters, 2019, 19, 1595-1604.	4.5	66
45	Optical Metasurfaces: Evolving from Passive to Adaptive. Advanced Optical Materials, 2019, 7, 1801786.	3.6	95
46	Nanoprinting organic molecules at the quantum level. Nature Communications, 2019, 10, 1880.	5.8	33
47	Multi-metal electrohydrodynamic redox 3D printing at the submicron scale. Nature Communications, 2019, 10, 1853.	5.8	125
48	Optimized Topological and Topographical Expansion of Epithelia. ACS Biomaterials Science and Engineering, 2019, 5, 3922-3934.	2.6	8
49	Nanoprinted Quantum Dot-Graphene Photodetectors. Advanced Optical Materials, 2019, 7, 1900019.	3.6	53
50	Superhydrophobic hemostatic nanofiber composites for fast clotting and minimal adhesion. Nature Communications, 2019, 10, 5562.	5.8	192
51	Self-Cleaning: Engineering Fully Organic and Biodegradable Superhydrophobic Materials (Adv. Mater.) Tj ETQq1 1,0,784314,rgBT /Ove	1.9	34
52	Engineering Fully Organic and Biodegradable Superhydrophobic Materials. Advanced Materials Interfaces, 2019, 6, 1801202.	1.9	34
53	Deterministic nanoprinting of single fluorescent molecules. , 2019, , .		0
54	Pore Shape Defines Paths of Metastatic Cell Migration. Nano Letters, 2018, 18, 2140-2147.	4.5	16

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55	Thermally Conductive Composite Material With Percolating Microparticles Applied as Underfill. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 840-850.	1.4	4
56	3D-Printed Surface Architecture Enhancing Superhydrophobicity and Viscous Droplet Repellency. ACS Applied Materials & Interfaces, 2018, 10, 43275-43281.	4.0	38
57	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.	3.6	0
58	Cascade Freezing of Supercooled Water Droplet Collectives. ACS Nano, 2018, 12, 11274-11281.	7.3	26
59	High-Efficiency, Extreme-Numerical-Aperture Metasurfaces Based on Partial Control of the Phase of Light. Advanced Optical Materials, 2018, 6, 1800852.	3.6	11
60	Two-Dimensional Drexhage Experiment for Electric- and Magnetic-Dipole Sources on Plasmonic Interfaces. Physical Review Letters, 2018, 121, 113601.	2.9	14
61	Acoustophoretic printing. Science Advances, 2018, 4, eaat1659.	4.7	133
62	Single entity resolution valving of nanoscopic species in liquids. Nature Nanotechnology, 2018, 13, 578-582.	15.6	15
63	Metasurfaces Leveraging Solar Energy for Icephobicity. ACS Nano, 2018, 12, 7009-7017.	7.3	93
64	Rationally 3D-Textured Copper Surfaces for Laplace Pressure Imbalance-Induced Enhancement in Dropwise Condensation. ACS Applied Materials & Interfaces, 2018, 10, 29127-29135.	4.0	100
65	On-Demand Laser Printing of Picoliter-Sized, Highly Viscous, Adhesive Fluids: Beyond Inkjet Limitations. Advanced Materials Interfaces, 2018, 5, 1800440.	1.9	19
66	Desublimation Frosting on Nanoengineered Surfaces. ACS Nano, 2018, 12, 8288-8296.	7.3	26
67	A micron-scale surface topography design reducing cell adhesion to implanted materials. Scientific Reports, 2018, 8, 10887.	1.6	85
68	Cell cycle-dependent force transmission in cancer cells. Molecular Biology of the Cell, 2018, 29, 2528-2539.	0.9	27
69	Honeycomb-structured metasurfaces for the adaptive nesting of endothelial cells under hemodynamic loads. Biomaterials Science, 2018, 6, 2726-2737.	2.6	10
70	Endocytic reawakening of motility in jammed epithelia. Nature Materials, 2017, 16, 587-596.	13.3	207
71	3D-printed fluidic networks for high-power-density heat-managing miniaturized redox flow batteries. Energy and Environmental Science, 2017, 10, 780-787.	15.6	58
72	Exceptional Anti-Icing Performance of Self-Impregnating Slippery Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 10233-10242.	4.0	66

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73	Contactless Transport and Mixing of Liquids on Self-Sustained Sublimating Coatings. <i>Langmuir</i> , 2017, 33, 1799-1809.	1.6	7
74	Growth Rates and Spontaneous Navigation of Condensate Droplets Through Randomly Structured Textures. <i>ACS Nano</i> , 2017, 11, 1673-1682.	7.3	96
75	Imparting Icephobicity with Substrate Flexibility. <i>Langmuir</i> , 2017, 33, 6708-6718.	1.6	62
76	Facile endothelium protection from TNF- α inflammatory insult with surface topography. <i>Biomaterials</i> , 2017, 138, 131-141.	5.7	17
77	Mass transport enhancement in redox flow batteries with corrugated fluidic networks. <i>Journal of Power Sources</i> , 2017, 359, 322-331.	4.0	40
78	Detergency and Its Implications for Oil Emulsion Sieving and Separation. <i>Langmuir</i> , 2017, 33, 4250-4259.	1.6	11
79	Length Scale of Diffusive Phonon Transport in Suspended Thin Silicon Nanowires. <i>Nano Letters</i> , 2017, 17, 276-283.	4.5	28
80	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.	3.3	73
81	Annealing and polycrystallinity effects on the thermal conductivity of supported CVD graphene monolayers. <i>Nanoscale</i> , 2017, 9, 15515-15524.	2.8	9
82	A customizable class of colloidal-quantum-dot metallic lasers and amplifiers. <i>Science Advances</i> , 2017, 3, e1700688.	4.7	50
83	Ultrasound-mediated piezoelectric differentiation of neuron-like PC12 cells on PVDF membranes. <i>Scientific Reports</i> , 2017, 7, 4028.	1.6	131
84	The breakup of intravascular microbubbles and its impact on the endothelium. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 611-624.	1.4	9
85	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.	2.5	29
86	Left Ventricular Assist Devices: Challenges Toward Sustaining Long-Term Patient Care. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1836-1851.	1.3	42
87	Electrohydrodynamic NanoDrip Printing of High Aspect Ratio Metal Grid Transparent Electrodes. <i>Advanced Functional Materials</i> , 2016, 26, 833-840.	7.8	223
88	Enhancement of Mass and Heat Transfer Using Herringbone-Inspired Microstructures for Application in Microfluidic Redox Flow Cells. , 2016, , .		1
89	A Novel Bioreactor System for the Assessment of Endothelialization on Deformable Surfaces. <i>Scientific Reports</i> , 2016, 6, 38861.	1.6	21
90	A Rapid Response Thin-Film Plasmonic-Thermoelectric Light Detector. <i>Scientific Reports</i> , 2016, 6, 37564.	1.6	30

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91	Three-dimensional concentration of light in deeply sub-wavelength, laterally tapered gap-plasmon nanocavities. <i>Applied Physics Letters</i> , 2016, 108, 221108.	1.5	5
92	On the shedding of impaled droplets: The role of transient intervening layers. <i>Scientific Reports</i> , 2016, 6, 18875.	1.6	14
93	Full-Spectrum Flexible Color Printing at the Diffraction Limit. <i>ACS Photonics</i> , 2016, 3, 754-757.	3.2	29
94	Surface Chemical Tuning of Phonon and Electron Transport in Free-Standing Silicon Nanowire Arrays. <i>Nano Letters</i> , 2016, 16, 6364-6370.	4.5	16
95	Endothelialization of Rationally Microtextured Surfaces with Minimal Cell Seeding Under Flow. <i>Small</i> , 2016, 12, 4113-4126.	5.2	15
96	Drug deposition in coronary arteries with overlapping drug-eluting stents. <i>Journal of Controlled Release</i> , 2016, 238, 1-9.	4.8	27
97	Superhydrophobicity enhancement through substrate flexibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13307-13312.	3.3	85
98	Confocal reference free traction force microscopy. <i>Nature Communications</i> , 2016, 7, 12814.	5.8	109
99	Toward Contactless Biology: Acoustophoretic DNA Transfection. <i>Scientific Reports</i> , 2016, 6, 20023.	1.6	58
100	A Nanoprinted Model of Interstitial Cancer Migration Reveals a Link between Cell Deformability and Proliferation. <i>ACS Nano</i> , 2016, 10, 6437-6448.	7.3	34
101	On the Mechanism of Hydrophilicity of Graphene. <i>Nano Letters</i> , 2016, 16, 4447-4453.	4.5	148
102	Printable Nanoscopic Metamaterial Absorbers and Images with Diffraction-Limited Resolution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11690-11697.	4.0	30
103	Significant heat transfer enhancement in microchannels with herringbone-inspired microstructures. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 755-764.	2.5	61
104	Charge effects and nanoparticle pattern formation in electrohydrodynamic NanoDrip printing of colloids. <i>Nanoscale</i> , 2016, 8, 6028-6034.	2.8	25
105	A simplified approach to hotspot alleviation in microprocessors. <i>Applied Thermal Engineering</i> , 2016, 93, 1314-1323.	3.0	20
106	Contactless prompt tumbling rebound of drops from a sublimating slope. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	22
107	Superhydrophobicity vs. Ice Adhesion: The Quandary of Robust Icephobic Surface Design. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500330.	1.9	51
108	Pore scale modeling of cold-start emissions in foam based catalytic reactors. <i>Chemical Engineering Science</i> , 2015, 138, 446-456.	1.9	18

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109	Sub-micron lateral topography affects endothelial migration by modulation of focal adhesion dynamics. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 035010.	1.7	19
110	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.	1.6	16
111	Rapid-Response Low Infrared Emission Broadband Ultrathin Plasmonic Light Absorber. <i>Scientific Reports</i> , 2015, 4, 7181.	1.6	33
112	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, 838-844.	4.0	4
113	Mixing with herringbone-inspired microstructures: overcoming the diffusion limit in co-laminar microfluidic devices. <i>Lab on A Chip</i> , 2015, 15, 1923-1933.	3.1	66
114	Sub-amorphous Thermal Conductivity in Ultrathin Crystalline Silicon Nanotubes. <i>Nano Letters</i> , 2015, 15, 2605-2611.	4.5	94
115	A high-efficiency hybrid high-concentration photovoltaic system. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 514-521.	2.5	48
116	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.	2.5	91
117	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.	6.6	16
118	Site-specific deposition of single gold nanoparticles by individual growth in electrohydrodynamically-printed attoliter droplet reactors. <i>Nanoscale</i> , 2015, 7, 9510-9519.	2.8	20
119	Effect of washcoat diffusion resistance in foam based catalytic reactors. <i>Chemical Engineering Journal</i> , 2015, 276, 388-397.	6.6	22
120	Spontaneous droplet trampolining on rigid superhydrophobic surfaces. <i>Nature</i> , 2015, 527, 82-85.	13.7	349
121	Significant thermal conductivity reduction of silicon nanowire forests through discrete surface doping of germanium. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	34
122	Wedge Waveguides and Resonators for Quantum Plasmonics. <i>Nano Letters</i> , 2015, 15, 6267-6275.	4.5	107
123	Surface-Structured Bacterial Cellulose with Guided Assembly-Based Biolithography (GAB). <i>ACS Nano</i> , 2015, 9, 206-219.	7.3	110
124	Physics of Icing and Rational Design of Surfaces with Extraordinary Icephobicity. <i>Langmuir</i> , 2015, 31, 4807-4821.	1.6	292
125	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.	4.0	15
126	Energy efficient hotspot-targeted embedded liquid cooling of electronics. <i>Applied Energy</i> , 2015, 138, 414-422.	5.1	157

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127	Dielectrophoretic bending of directly printed free-standing ultra-soft nanowires. Applied Physics Letters, 2014, 104, .	1.5	17
128	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.	4.0	22
129	Performance of randomized Kelvin cell structures as catalytic substrates: Mass-transfer based analysis. Chemical Engineering Science, 2014, 112, 143-151.	1.9	55
130	Highly flexible, all solid-state micro-supercapacitors from vertically aligned carbon nanotubes. Nanotechnology, 2014, 25, 055401.	1.3	191
131	Hemodynamics in coronary arteries with overlapping stents. Journal of Biomechanics, 2014, 47, 505-511.	0.9	48
132	Synergistic integration of Ni and vertically aligned carbon nanotubes for enhanced transport properties on flexible substrates. Carbon, 2014, 68, 308-318.	5.4	19
133	Multifunctional Superhydrophobic Polymer/Carbon Nanocomposites: Graphene, Carbon Nanotubes, or Carbon Black?. ACS Applied Materials & Interfaces, 2014, 6, 8859-8867.	4.0	116
134	Left ventricular hypertrophy and endothelial dysfunction in chronic kidney disease. European Heart Journal Cardiovascular Imaging, 2014, 15, 56-61.	0.5	36
135	Acoustophoretic Contactless Elevation, Orbital Transport and Spinning of Matter in Air. Physical Review Letters, 2014, 112, 024301.	2.9	101
136	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.	1.2	12
137	Rational nanostructuring of surfaces for extraordinary icephobicity. Nanoscale, 2014, 6, 4874-4881.	2.8	203
138	Hierarchically nanotextured surfaces maintaining superhydrophobicity under severely adverse conditions. Nanoscale, 2014, 6, 8710-8719.	2.8	72
139	Proximal gap-plasmon nanoresonators in the limit of vanishing inter-cavity separation. Nanoscale, 2014, 6, 10274-10280.	2.8	9
140	Modeling the interaction of microbubbles: Effects of proximity, confinement, and excitation amplitude. Physics of Fluids, 2014, 26, .	1.6	9
141	On the Nanoengineering of Superhydrophobic and Impalement Resistant Surface Textures below the Freezing Temperature. Nano Letters, 2014, 14, 172-182.	4.5	276
142	Near-Field Light Design with Colloidal Quantum Dots for Photonics and Plasmonics. Nano Letters, 2014, 14, 5827-5833.	4.5	70
143	Dropwise condensation on superhydrophobic nanostructured surfaces: literature review and experimental analysis. Journal of Physics: Conference Series, 2014, 501, 012028.	0.3	19
144	Toward a Rational Design of Surface Textures Promoting Endothelialization. Nano Letters, 2014, 14, 1069-1079.	4.5	61

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145	The influence of surface micro-structure on endothelialization under supraphysiological wall shear stress. <i>Biomaterials</i> , 2014, 35, 8479-8486.	5.7	40
146	Supercooled Water Drops Impacting Superhydrophobic Textures. <i>Langmuir</i> , 2014, 30, 10855-10861.	1.6	157
147	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.	1.5	93
148	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.	2.2	12
149	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.	2.5	31
150	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.	1.1	30
151	Characterization of particle beds in percolating thermal underfills based on centrifugation. , 2014, , .		5
152	Unraveling wetting transition through surface textures with X-rays: Liquid meniscus penetration phenomena. <i>Scientific Reports</i> , 2014, 4, 4055.	1.6	56
153	Water Drops Dancing on Ice: How Sublimation Leads to Drop Rebound. <i>Physical Review Letters</i> , 2013, 111, 014501.	2.9	97
154	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.	2.5	62
155	A Novel 3D Integrated Platform for the High-Resolution Study of Cell Migration Plasticity. <i>Macromolecular Bioscience</i> , 2013, 13, 973-983.	2.1	25
156	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.	2.5	64
157	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.	2.5	111
158	Vortex shedding from confined micropin arrays. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 231-242.	1.0	19
159	Graphene mediated thermal resistance reduction at strongly coupled interfaces. <i>International Journal of Heat and Mass Transfer</i> , 2013, 62, 205-213.	2.5	57
160	T wave morphology changes during hemodialysis. <i>Journal of Electrocardiology</i> , 2013, 46, 492-496.	0.4	12
161	Label-free detection of cell-contractile activity with lipid nanotubes. <i>Integrative Biology (United Kingdom)</i> 11, 07, 1073-1080. doi:10.1039/c3ib27006a	0.6	7
162	Morphing Surfaces Enable Acoustophoretic Contactless Transport of Ultrahigh-Density Matter in Air. <i>Scientific Reports</i> , 2013, 3, 3176.	1.6	32

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163	On cell separation with topographically engineered surfaces. <i>Biointerphases</i> , 2013, 8, 34.	0.6	8
164	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, 862-869.	3.9	18
165	Facile multifunctional plasmonic sunlight harvesting with tapered triangle nanopatterning of thin films. <i>Nanoscale</i> , 2013, 5, 9957.	2.8	36
166	Hybrid porous media and fluid domain modeling strategy to optimize a novel staggered fin heat sink design. , 2013, , .		4
167	Flow Condensation on Copper-Based Nanotextured Superhydrophobic Surfaces. <i>Langmuir</i> , 2013, 29, 840-848.	1.6	143
168	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.	1.1	27
169	Synthetic Lipid Nanotubes as Cell-Cell Junctions for Inter-Cellular Ca ⁺ Propagation and for Cell Contraction Monitoring. <i>Biophysical Journal</i> , 2013, 104, 548a-549a.	0.2	0
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