Liqiu Wang

List of Publications by Citations

224 papers	7,397 citations	39 h-index	80 g-index
247 ext. papers	8,627 ext. citations	6 avg, IF	6.37 L-index

#	Paper	IF	Citations
224	First result from the Alpha Magnetic Spectrometer on the International Space Station: precision measurement of the positron fraction in primary cosmic rays of 0.5-350 GeV. *Physical Review Letters*, **2013**, 110, 141102	7.4	694
223	Passive and active droplet generation with microfluidics: a review. *Lab on A Chip*, **2016**, 17, 34-75	7.2	547
222	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1 GV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. *Physical Review Letters*, **2015**, 114, 171103	7.4	491
221	High statistics measurement of the positron fraction in primary cosmic rays of 0.5-500 GeV with the alpha magnetic spectrometer on the international space station. *Physical Review Letters*, **2014**, 113, 121101	7.4	341
220	Electron and positron fluxes in primary cosmic rays measured with the alpha magnetic spectrometer on the international space station. *Physical Review Letters*, **2014**, 113, 121102	7.4	311
219	Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9 GV to 3 TV with the Alpha Magnetic Spectrometer on the International Space Station. *Physical Review Letters*, **2015**, 115, 211101	7.4	287
218	Review of Heat Conduction in Nanofluids. *Journal of Heat Transfer*, **2011**, 133,	1.8	230
217	Precision Measurement of the (e^{+}+e^{-}) Flux in Primary Cosmic Rays from 0.5 GeV to 1 TeV with the Alpha Magnetic Spectrometer on the International Space Station. *Physical Review Letters*, **2014**, 113, 221102	7.4	198
216	Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9 GV to 2.6 TV with the Alpha Magnetic Spectrometer on the International Space Station. *Physical Review Letters*, **2016**, 117, 231102	7.4	178
215	Observation of the Identical Rigidity Dependence of He, C, and O Cosmic Rays at High Rigidities by the Alpha Magnetic Spectrometer on the International Space Station. *Physical Review Letters*, **2017**, 119, 251101	7.4	140
214	Fabrication and characterization of monodisperse PLGA-alginate core-shell microspheres with monodisperse size and homogeneous shells for controlled drug release. *Acta Biomaterialia*, **2013**, 9, 7410-9	7.8	127
213	Well-defined porous membranes for robust omniphobic surfaces via microfluidic emulsion templating. *Nature Communications*, **2017**, 8, 15823	17.4	114
212	Critical Issues in Nanofluids Preparation, Characterization and Thermal Conductivity. *Current Nanoscience*, **2009**, 5, 103-112	1.4	113
211	Nanofluids research: key issues. *Nanoscale Research Letters*, **2010**, 5, 1241-52	5	107
210	Synthesis and thermal conductivity of Cu2O nanofluids. *International Journal of Heat and Mass Transfer*, **2009**, 52, 4371-4374	4.9	104
209	Large-scale water collection of bioinspired cavity-microfibers. *Nature Communications*, **2017**, 8, 1080	17.4	101
208	Thermal oscillation and resonance in dual-phase-lagging heat conduction. *International Journal of Heat and Mass Transfer*, **2002**, 45, 1055-1061	4.9	75

207	Synthesis and thermal conductivity of microfluidic copper nanofluids. *Particuology*, **2010**, 8, 262-271	2.8	73
206	Mechano-regulated surface for manipulating liquid droplets. *Nature Communications*, **2017**, 8, 14831	17.4	70
205	Dual-phase-lagging heat conduction based on Boltzmann transport equation. *International Journal of Heat and Mass Transfer*, **2005**, 48, 5616-5624	4.9	70
204	Droplet Microfluidics for the Production of Microparticles and Nanoparticles. *Micromachines*, **2017**, 8, 22	3.3	68
203	Well-posedness and solution structure of dual-phase-lagging heat conduction. *International Journal of Heat and Mass Transfer*, **2001**, 44, 1659-1669	4.9	62
202	Well-posedness of dual-phase-lagging heat conduction equation: higher dimensions. *International Journal of Heat and Mass Transfer*, **2002**, 45, 1165-1171	4.9	54
201	Flow transitions and combined free and forced convective heat transfer in rotating curved channels: The case of positive rotation. *Physics of Fluids*, **1996**, 8, 1553-1573	4.4	54
200	Towards Understanding the Origin of Cosmic-Ray Electrons. *Physical Review Letters*, **2019**, 122, 101101	7.4	53
199	Droplet generation in co-flow microfluidic channels with vibration. *Microfluidics and Nanofluidics*, **2016**, 20, 1	2.8	53
198	Forced convection in slightly curved microchannels. *International Journal of Heat and Mass Transfer*, **2007**, 50, 881-896	4.9	52
197	Nanofluids: Synthesis, Heat Conduction, and Extension. *Journal of Heat Transfer*, **2009**, 131,	1.8	51
196	Engineering Micromotors with Droplet Microfluidics. *ACS Nano*, **2019**, 13, 6319-6329	16.7	50
195	Thermal wave interference as the origin of the overshooting phenomenon in dual-phase-lagging heat conduction. *International Journal of Thermal Sciences*, **2011**, 50, 825-830	4.1	49
194	Three-dimensional capillary ratchet-induced liquid directional steering. *Science*, **2021**, 373, 1344-1348	33.3	49
193	Solution structure of hyperbolic heat-conduction equation. *International Journal of Heat and Mass Transfer*, **2000**, 43, 365-373	4.9	43
192	Scalable and Automated Fabrication of Conductive Tough-Hydrogel Microfibers with Ultrastretchability, 3D Printability, and Stress Sensitivity. *ACS Applied Materials & Interfaces*, **2018**, 10, 11204-11212	9.5	42
191	Loss-Free Photo-Manipulation of Droplets by Pyroelectro-Trapping on Superhydrophobic Surfaces. *ACS Nano*, **2018**, 12, 8994-9004	16.7	42
190	Microfluidic fabrication of polymeric core-shell microspheres for controlled release applications. *Biomicrofluidics*, **2013**, 7, 44128	3.2	41

189	Heat conduction in nanofluids. *Chaos, Solitons and Fractals*, **2009**, 39, 2211-2215	9.3	41
188	Stability of Dynamical Systems. *Monograph Series on Nonlinear Science and Complexity*, **2007**, i-706		41
187	Bifurcation and stability of forced convection in curved ducts of square cross-section. *International Journal of Heat and Mass Transfer*, **2004**, 47, 2971-2987	4.9	40
186	Droplet based microfluidic fabrication of designer microparticles for encapsulation applications. *Biomicrofluidics*, **2012**, 6, 34104	3.2	39
185	Equivalence between dual-phase-lagging and two-phase-system heat conduction processes. *International Journal of Heat and Mass Transfer*, **2008**, 51, 1751-1756	4.9	39
184	Engineering Microstructure with Evaporation-Induced Self-Assembly of Microdroplets. *Small Methods*, **2018**, 2, 1800017	12.8	38
183	Microfluidic generation of aqueous two-phase-system (ATPS) droplets by oil-droplet choppers. *Lab on A Chip*, **2017**, 17, 3310-3317	7.2	37
182	From Boltzmann transport equation to single-phase-lagging heat conduction. *International Journal of Heat and Mass Transfer*, **2008**, 51, 6018-6023	4.9	37
181	Tip-multi-breaking in Capillary Microfluidic Devices. *Scientific Reports*, **2015**, 5, 11102	4.9	36
180	Bioinspired Nanostructured Surfaces for On-Demand Bubble Transportation. *ACS Applied Materials & Interfaces*, **2018**, 10, 3029-3038	9.5	35
179	Engineering polymeric composite particles by emulsion-templating: thermodynamics versus kinetics. *Soft Matter*, **2013**, 9, 9780	3.6	35
178	Brownian micro-engines and refrigerators in a spatially periodic temperature field: Heat flow and performances. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 352, 286-290	2.3	35
177	Effects of nanoparticle shapes on laminar forced convective heat transfer in curved ducts using two-phase model. *International Journal of Heat and Mass Transfer*, **2018**, 116, 292-305	4.9	34
176	Periodic oscillation in curved duct flows. *Physica D: Nonlinear Phenomena*, **2005**, 200, 296-302	3.3	34
175	Selective Electroless Metallization of Micro- and Nanopatterns via Poly(dopamine) Modification and Palladium Nanoparticle Catalysis for Flexible and Stretchable Electronic Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 28754-28763	9.5	33
174	Nanofluids of the Future. *Advances in Transport Phenomena*, **2009**, 179-243		33
173	Hydrogen production from steam reforming of kerosene over Ni□a and Ni□aK/cordierite catalysts. *Fuel*, **2006**, 85, 1708-1713	7.1	33
172	A new C2 rational interpolation based on function values and constrained control of the interpolant curves. *Applied Mathematics and Computation*, **2005**, 161, 311-322	2.7	33

171	Synthesis and characterization of a mesoporous silica (MCM-48) membrane on a large-pore □Al2O3 ceramic tube. *Microporous and Mesoporous Materials*, **2007**, 106, 35-39	5.3	31
170	Photopyroelectric microfluidics. *Science Advances*, **2020**, 6,	14.3	31
169	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. *Physical Review Letters*, **2020**, 124, 211102	7.4	29
168	Passive Mixing inside Microdroplets. *Micromachines*, **2018**, 9,	3.3	27
167	Multiplicity and Stability of Convection in Curved Ducts: Review and Progress. *Advances in Heat Transfer*, **2004**, 38, 203-255	1.9	27
166	Generalized Fourier law. *International Journal of Heat and Mass Transfer*, **1994**, 37, 2627-2634	4.9	27
165	Buoyancy-force-driven transitions in flow structures and their effects on heat transfer in a rotating curved channel. *International Journal of Heat and Mass Transfer*, **1997**, 40, 223-235	4.9	26
164	Capillary micromechanics for core-shell particles. *Soft Matter*, **2014**, 10, 3271-6	3.6	25
163	Evolution of core□shell structure: From emulsions to ultrafine emulsion electrospun fibers. *Materials Letters*, **2014**, 124, 192-196	3.3	25
162	Microfluidic synthesis of copper nanofluids. *Microfluidics and Nanofluidics*, **2010**, 9, 727-735	2.8	25
161	Pinch-off of microfluidic droplets with oscillatory velocity of inner phase flow. *Scientific Reports*, **2016**, 6, 31436	4.9	24
160	Monodisperse magnetite nanofluids: Synthesis, aggregation, and thermal conductivity. *Journal of Applied Physics*, **2010**, 108, 114311	2.5	24
159	A general bioheat model at macroscale. *International Journal of Heat and Mass Transfer*, **2011**, 54, 722-726	4.9	23
158	Constructal Design of Particle Volume Fraction in Nanofluids. *Journal of Heat Transfer*, **2009**, 131,	1.8	23
157	CuS/Cu2S nanofluids: Synthesis and thermal conductivity. *International Journal of Heat and Mass Transfer*, **2010**, 53, 1841-1843	4.9	23
156	Bioinspired Fibers with Controlled Wettability: From Spinning to Application. *ACS Nano*, **2021**, 15, 7907-7930	15.9	23
155	Constructal Allocation of Nanoparticles in Nanofluids. *Journal of Heat Transfer*, **2010**, 132,	1.8	22
154	Constructal design of nanofluids. *International Journal of Heat and Mass Transfer*, **2010**, 53, 4238-4247	4.9	22

153	Bifurcation and stability of combined free and forced convection in rotating curved ducts of square cross-section. *International Journal of Heat and Mass Transfer*, **2003**, 46, 613-629	4.9	22
152	Preparation and performance of Fe3O4@hydrophilic graphene composites with excellent Photo-Fenton activity for photocatalysis. *Materials Letters*, **2016**, 183, 61-64	3.3	22
151	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. *Physical Review Letters*, **2019**, 123, 181102	7.4	21
150	Flows Through Porous Media: A Theoretical Development at Macroscale. *Transport in Porous Media*, **2000**, 39, 1-24	3.1	21
149	Flow transitions and combined free and forced convective heat transfer in a rotating curved circular tube. *International Journal of Heat and Mass Transfer*, **1996**, 39, 3381-3400	4.9	21
148	Droplet Breakup in Expansion-contraction Microchannels. *Scientific Reports*, **2016**, 6, 21527	4.9	21
147	Flow in curved channels with a low negative rotation speed. *Physical Review E*, **1995**, 51, 1155-1161	2.4	20
146	Dynamic regimes of electrified liquid filaments. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6159-6164	11.5	20
145	Microfluidic Fabrication of Bioinspired Cavity-Microfibers for 3D Scaffolds. *ACS Applied Materials & Interfaces*, **2018**, 10, 29219-29226	9.5	19
144	Toward nanofluids of ultra-high thermal conductivity. *Nanoscale Research Letters*, **2011**, 6, 153	5	19
143	Transport reversal in a thermal ratchet. *Physical Review E*, **2005**, 72, 031101	2.4	19
142	Bioinspired microfibers for water collection. *Journal of Materials Chemistry A*, **2018**, 6, 18766-18781	13	19
141	Contributions of international cooperation projects to the HIV/AIDS response in China. *International Journal of Epidemiology*, **2010**, 39 Suppl 2, ii14-20	7.8	18
140	Analysis on multiplicity and stability of convective heat transfer in tightly curved rectangular ducts. *International Journal of Heat and Mass Transfer*, **2009**, 52, 5849-5866	4.9	18
139	Asymmetric fibers for efficient fog harvesting. *Chemical Engineering Journal*, **2021**, 415, 128944	14.7	18
138	Sandwiched nets for efficient direction-independent fog collection. *Journal of Colloid and Interface Science*, **2021**, 581, 545-551	9.3	18
137	Boiling heat transfer on surfaces with 3D-printing microstructures. *Experimental Thermal and Fluid Science*, **2018**, 93, 165-170	3	17
136	Topography-Directed Hot-Water Super-Repellent Surfaces. *Advanced Science*, **2019**, 6, 1900798	13.6	17

135	Constructal structure of nanofluids. *Journal of Applied Physics*, **2010**, 108, 074317	2.5	17
134	CePO4 Nanofluids: Synthesis and Thermal Conductivity. *Journal of Thermophysics and Heat Transfer*, **2009**, 23, 219-222	1.3	17
133	Experimental Investigation of Bubble Formation in a Microfluidic T-Shaped Junction. *Nanoscale and Microscale Thermophysical Engineering*, **2009**, 13, 228-242	3.7	17
132	REMOVED: Chapter 4 Multiscale Theorems. *Advances in Chemical Engineering*, **2008**, 34, 175-468	0.6	17
131	Flashing motor at high transition rate. *Chaos, Solitons and Fractals*, **2007**, 34, 1265-1271	9.3	17
130	Analytical theory of bioheat transport. *Journal of Applied Physics*, **2011**, 109, 104702	2.5	16
129	Universality of design and its evolution: comment on "The constructal law and the evolution of design in nature". *Physics of Life Reviews*, **2011**, 8, 257-8; discussion 261-3	2.1	16
128	Heat conduction in nanofluids: Structure□roperty correlation. *International Journal of Heat and Mass Transfer*, **2011**, 54, 4349-4359	4.9	16
127	Design of multi-scale textured surfaces for unconventional liquid harnessing. *Materials Today*, **2021**, 43, 62-83	21.8	16
126	Superwettability with antithetic states: fluid repellency in immiscible liquids. *Materials Horizons*, **2018**, 5, 1156-1165	14.4	16
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124	Frame-indifferent and positive-definite Reynolds stress□train relation. *Journal of Fluid Mechanics*, **1997**, 352, 341-358	3.7	15
123	A novel approach to the convexity control of interpolant curves. *Communications in Numerical Methods in Engineering*, **2003**, 19, 833-845		15
122	Spreading-induced dewetting for monolayer colloidosomes with responsive permeability. *Journal of Materials Chemistry B*, **2017**, 5, 6034-6041	7.3	14
121	Modeling Bioheat Transport at Macroscale. *Journal of Heat Transfer*, **2011**, 133,	1.8	14
120	Effective thermal conductivity of nanofluids: the effects of microstructure. *Journal Physics D: Applied Physics*, **2010**, 43, 165501	3	14
119	A rare variant in MLKL confers susceptibility to ApoE e4-negative Alzheimer□s disease in Hong Kong Chinese population. *Neurobiology of Aging*, **2018**, 68, 160.e1-160.e7	5.6	13
118	A method for predicting thermal waves in dual-phase-lag heat conduction. *International Journal of Heat and Mass Transfer*, **2017**, 115, 250-257	4.9	13

117	Slippery damper of an overlay for arresting and manipulating droplets on nonwetting surfaces. *Nature Communications*, **2021**, 12, 3154	17.4	13
116	Effect of Thermal-Electric Cross Coupling on Heat Transport in Nanofluids. *Energies*, **2017**, 10, 123	3.1	12
115	Furcated droplet motility on crystalline surfaces. *Nature Nanotechnology*, **2021**, 16, 1106-1112	28.7	12
114	Microfluidic Encapsulation of Phase-Change Materials for High Thermal Performance. *Langmuir*, **2020**, 36, 8165-8173	4	11
113	Microfluidics-Based Systems in Diagnosis of Alzheimer's Disease and Biomimetic Modeling. *Micromachines*, **2020**, 11,	3.3	11
112	Superhydrophobicity preventing surface contamination as a novel strategy against COVID-19. *Journal of Colloid and Interface Science*, **2021**, 600, 613-619	9.3	11
111	Magic microfluidic T-junctions: Valving and bubbling. *Chaos, Solitons and Fractals*, **2009**, 39, 1530-1537	9.3	10
110	A new weighted rational cubic interpolation and its approximation. *Applied Mathematics and Computation*, **2005**, 168, 990-1003	2.7	10
109	Property of period-doubling bifurcations. *Chaos, Solitons and Fractals*, **2005**, 24, 527-532	9.3	10
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105	Engineering particle morphology with microfluidic droplets. *Journal of Micromechanics and Microengineering*, **2016**, 26, 075011	2	10
104	Photosensitizers from Spirulina for Solar Cell. *Journal of Chemistry*, **2014**, 2014, 1-5	2.3	9
103	Vector-field theory of heat flux in convective heat transfer. *Nonlinear Analysis: Theory, Methods & Applications*, **2001**, 47, 5009-5020	1.3	9
102	Formation of Nanoliter Droplets in a Confined Microfluidic T-Shaped Junction: Formation Time and Droplet Volume. *Current Nanoscience*, **2009**, 5, 519-526	1.4	9
101	A Dewetting Model for Double-Emulsion Droplets. *Micromachines*, **2016**, 7,	3.3	9
100	Rapid mixing of viscous liquids by electrical coiling. *Scientific Reports*, **2016**, 6, 19606	4.9	9

99	Non-Fourier heat conduction in oil-in-water emulsions. *International Journal of Heat and Mass Transfer*, **2019**, 135, 323-330	4.9	8
98	MICROSTRUCTURAL EFFECTS ON MACROSCALE THERMAL PROPERTIES IN NANOFLUIDS. *Nano*, **2010**, 05, 117-125	1.1	8
97	Microfluidics-Enabled Soft Manufacture of Materials with Tailorable Wettability.. *Chemical Reviews*, **2021**,	68.1	8
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95	Heat conduction in cylinders: Entropy generation and mathematical inequalities. *International Journal of Heat and Mass Transfer*, **2018**, 121, 1137-1145	4.9	7
94	Self-Assembly of TiO Nanofiber-Based Microcapsules by Spontaneously Evolved Multiple Emulsions. *Langmuir*, **2018**, 34, 8785-8791	4	7
93	A novel method to synthesize well-dispersed MgTiO3 nanoplatelets. *Materials Letters*, **2015**, 155, 91-93	3.3	7
92	Microfluidic Method for Synthesizing Cu2O Nanofluids. *Journal of Thermophysics and Heat Transfer*, **2010**, 24, 445-448	1.3	7
91	Effect of spanwise rotation on centrifugal instability in rotating curved non-isothermal flows. *Computational Mechanics*, **1997**, 19, 420-433	4	7
90	Single- and Dual-Phase-Lagging Heat Conduction Models in Moving Media. *Journal of Heat Transfer*, **2008**, 130,	1.8	7
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88	Bifurcation and stability of forced convection in tightly coiled ducts: multiplicity. *Chaos, Solitons and Fractals*, **2005**, 26, 337-352	9.3	7
87	Self-similarity of fluid flows. *Applied Physics Letters*, **1998**, 73, 1329-1330	3.4	7
86	AN APPROACH FOR THERMODYNAMIC REASONING. *International Journal of Modern Physics B*, **1996**, 10, 2531-2551	1.1	7
85	Droplet pinch-off with pressure fluctuations. *Chemical Engineering Science*, **2019**, 196, 333-343	4.4	7
84	Multiplicity of forced convective heat transfer of nanofluids in curved ducts. *International Journal of Heat and Mass Transfer*, **2019**, 129, 534-546	4.9	7
83	Nonspecular Reflection of Droplets. *Small*, **2021**, 17, e2006695	11	7
82	Citrus-peel-like durable slippery surfaces. *Chemical Engineering Journal*, **2021**, 420, 129599	14.7	7

81	Droplet Bouncing: Fundamentals, Regulations, and Applications.. *Small*, **2022**, e2200277	11	7
80	Coalescence-induced transition between unidirectional and bidirectional propagation of droplets. *Materials Horizons*, **2020**, 7, 2078-2084	14.4	6
79	Suppressing the Folding of Flowing Viscous Jets Using an Electric Field. *Physical Review Applied*, **2015**, 3,	4.3	6
78	Copper Nanofluids: Synthesis and Thermal Conductivity. *Current Nanoscience*, **2010**, 6, 512-519	1.4	6
77	Forced convection in tightly coiled ducts: Bifurcation in a high Dean number region. *International Journal of Non-Linear Mechanics*, **2007**, 42, 1018-1034	2.8	6
76	Chaotic Oscillations of Forced Convection in Tightly Coiled Ducts. *Numerical Heat Transfer; Part A: Applications*, **2007**, 51, 179-194	2.3	6
75	Solution Structure and Stability of Viscous Flow in Curved Square Ducts. *Journal of Fluids Engineering, Transactions of the ASME*, **2001**, 123, 863-868	2.1	6
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70	Hourglass-Shaped Microfibers. *ACS Applied Materials & Interfaces*, **2020**, 12, 29747-29756	9.5	5
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62	Minimum heat to environment and entropy. *International Journal of Heat and Mass Transfer*, **1998**, 41, 1869-1871	4.9	4
61	Dual-Phase-Lagging and Porous-Medium Heat Conduction Processes **2008**, 1-37		4
60	Bifurcation and stability of forced convection in tightly coiled ducts: stability. *Chaos, Solitons and Fractals*, **2006**, 27, 991-1005	9.3	4
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58	Optimization of laminar convective heat transfer of oil-in-water nanoemulsion fluids in a toroidal duct. *International Journal of Heat and Mass Transfer*, **2020**, 150, 119332	4.9	4
57	Two nanofluid configurations for heat conduction systems: performance comparison. *International Journal of Heat and Mass Transfer*, **2013**, 66, 632-641	4.9	3
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54	Microfluidics: Fabrication, Droplets, Bubbles and Nanofluids Synthesis. *Advances in Transport Phenomena*, **2011**, 171-294		3
53	Multifunctional Nanofluids: Synthesis, Aggregation and Thermal Conductivity. *Current Nanoscience*, **2011**, 7, 480-488	1.4	3
52	FORMATION OF NANOLITER BUBBLES IN MICROFLUIDIC T-JUNCTIONS. *Nano*, **2010**, 05, 175-184	1.1	3
51	Thermodynamics of moving Gibbs dividing surfaces. *Physical Review E*, **1997**, 55, 1732-1738	2.4	3
50	Numerical Simulation of Multiplicity and Stability of Mixed Convection in Rotating Curved Ducts. *International Journal of Rotating Machinery*, **2005**, 2005, 168-178	1.3	3
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48	Aqueous Drop-on-Drop Impact on Super-Repellent Surface. *Advanced Materials Interfaces*,2101565	4.6	3
47	Gradient wettability induced by deterministically patterned nanostructures. *Microsystems and Nanoengineering*, **2020**, 6, 106	7.7	3
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