

Chun Yang

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.

295
papers

11,020
citations

49
h-index

96
g-index

347
ext. papers

12,542
ext. citations

4.5
avg, IF

6.63
L-index

#	Paper	IF	Citations
295	Membrane-based indirect power generation technologies for harvesting salinity gradient energy - A review. <i>Desalination</i> , 2022 , 525, 115485	10.3	1
294	Freezing characteristics of deposited water droplets on hydrophilic and hydrophobic cold surfaces. <i>International Journal of Thermal Sciences</i> , 2022 , 171, 107241	4.1	3
293	Characteristics of a freezing nanosuspension drop in two different schemes. <i>Applied Physics Letters</i> , 2022 , 120, 091602	3.4	1
292	Current commercial dPCR platforms: technology and market review.. <i>Critical Reviews in Biotechnology</i> , 2022 , 1-32	9.4	2
291	Combined Anomaly Detection Framework for Digital Twins of Water Treatment Facilities. <i>Water (Switzerland)</i> , 2022 , 14, 1001	3	1
290	A More Biomimetic Cell Migration Assay with High Reliability and Its Applications. <i>Pharmaceuticals</i> , 2022 , 15, 695	5.2	1
289	Modelling of Melting in Packed Media due to Forced Air Convection with Higher Temperature using Euler-Euler-Lagrangian approach. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 194, 123055	4.9	1
288	Fibrinogen improves liver function via promoting cell aggregation and fibronectin assembly in hepatic spheroids. <i>Biomaterials</i> , 2021 , 280, 121266	15.6	1
287	A low-Reynolds-number actuator driven by instability: rotating or oscillating. <i>Nonlinear Dynamics</i> , 2021 , 106, 2005	5	
286	Bacterial inactivation via microfluidic electroporation device with insulating micropillars. <i>Electrophoresis</i> , 2021 , 42, 1093-1101	3.6	2
285	Freezing of a nanofluid droplet: From a pointy tip to flat plateau. <i>Applied Physics Letters</i> , 2021 , 118, 141602	4.9	5
284	Promote anti- /de- frosting by suppressing directional ice bridging. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 165, 120609	4.9	11
283	How different freezing morphologies of impacting droplets form. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 403-410	9.3	10
282	Analytical analysis of anisotropic thermophoresis of a charged spheroidal colloid in aqueous media for extremely thin EDL cases. <i>Electrophoresis</i> , 2021 , 42, 2391-2400	3.6	1
281	Simulations of Melting in Fluid-filled Packed Media due to Forced Convection with Higher Temperature. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 175, 121358	4.9	2
280	Evaporation of a sessile droplet on flat surfaces: An axisymmetric lattice Boltzmann model with consideration of contact angle hysteresis. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 178, 121577	4.9	5
279	An immersed boundary-lattice Boltzmann model for simulation of deposited particle patterns in an evaporating sessile droplet with dispersed particles. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121905	4.9	2

278	Freezing morphologies of impact water droplets on an inclined subcooled surface. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121843	4.9	5
277	Active control of the freezing process of a ferrofluid droplet with magnetic fields. <i>Applied Thermal Engineering</i> , 2020 , 176, 115444	5.8	6
276	Kinetics of colloidal particle deposition in microfluidic systems under temperature gradients: experiment and modelling. <i>Soft Matter</i> , 2020 , 16, 3649-3656	3.6	1
275	Water condensate morphologies on a cantilevered microfiber. <i>Journal of Applied Physics</i> , 2020 , 127, 244902	4.2	1
274	An Electroporation Device with Microbead-Enhanced Electric Field for Bacterial Inactivation. <i>Inventions</i> , 2020 , 5, 2	2.9	7
273	Axisymmetric lattice Boltzmann model for simulating the freezing process of a sessile water droplet with volume change. <i>Physical Review E</i> , 2020 , 101, 023314	2.4	13
272	A numerical study on ion concentration polarization and electric circuit performance of an electrokinetic battery. <i>Electrophoresis</i> , 2020 , 41, 811-820	3.6	0
271	Freezing process of ferrofluid droplets: Numerical and scaling analyses. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	4
270	Pore scale investigations on melting of phase change materials considering the interfacial thermal resistance. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 115, 104631	5.8	6
269	Rapid pre-concentration of Escherichia coli in a microfluidic paper-based device using ion concentration polarization. <i>Electrophoresis</i> , 2020 , 41, 867-874	3.6	17
268	Progressive Pulmonary Fibrosis Is Caused by Elevated Mechanical Tension on Alveolar Stem Cells. <i>Cell</i> , 2020 , 180, 107-121.e17	56.2	93
267	Numerical simulations of the liquid-vapor phase change dynamic processes in a flat micro heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 147, 119022	4.9	11
266	Enhanced sample pre-concentration by ion concentration polarization on a paraffin coated converging microfluidic paper based analytical platform. <i>Biomicrofluidics</i> , 2020 , 14, 014103	3.2	5
265	Thermal comfort analysis of radiant cooling panels with dedicated fresh-air system. <i>Indoor and Built Environment</i> , 2020 , 1420326X2096114	1.8	5
264	Reduced contact time of a droplet impacting on a moving superhydrophobic surface. <i>Applied Physics Letters</i> , 2020 , 117, 151602	3.4	22
263	Dielectrophoretic trapping and impedance detection of , , and bacteria. <i>Biomicrofluidics</i> , 2020 , 14, 054105	5.2	2
262	Chemical screening identifies ROCK1 as a regulator of migrasome formation. <i>Cell Discovery</i> , 2020 , 6, 51	22.3	6
261	Breakup of ultra-thin liquid films on vertical fiber enhanced by Marangoni effect. <i>Chemical Engineering Science</i> , 2019 , 199, 342-348	4.4	20

260	Back Cover: Biotechnology Journal 5/2019. <i>Biotechnology Journal</i> , 2019 , 14, 1970054	5.6	
259	Continuous flow microfluidic cell inactivation with the use of insulating micropillars for multiple electroporation zones. <i>Electrophoresis</i> , 2019 , 40, 2522-2529	3.6	10
258	Triple condensate halo from a single water droplet impacting upon a cold surface. <i>Applied Physics Letters</i> , 2019 , 114, 183703	3.4	7
257	Thermocapillary effect on the dynamics of liquid films coating the interior surface of a tube. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 524-533	4.9	4
256	Microfluidics-based fundamental characterization of external concentration polarization in forward osmosis. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	4
255	Perspectives for low-temperature waste heat recovery. <i>Energy</i> , 2019 , 176, 1037-1043	7.9	99
254	Scaled-Up Inertial Microfluidics: Retention System for Microcarrier-Based Suspension Cultures. <i>Biotechnology Journal</i> , 2019 , 14, e1800674	5.6	8
253	Enzymatic in situ synthesis of graphene oxide/polypyrrole composites by peroxidase and their electrical capacitance. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 869-875	2.3	2
252	Numerical analysis of thermal conductivity effect on thermophoresis of a charged colloidal particle in aqueous media. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 142, 118421	4.9	5
251	Adsorptive removal of heavy metal ions in water using poly(m-phenylenediamine) synthesized by laccase. <i>Chemical Papers</i> , 2019 , 73, 1705-1711	1.9	1
250	Thermal analysis of conjugated cooling configurations using phase change material and liquid cooling techniques for a battery module. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 827-841	4.9	80
249	Inertial particle focusing dynamics in a trapezoidal straight microchannel: application to particle filtration. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	28
248	Absolute instability induced by Marangoni effect in thin liquid film flows on vertical cylindrical surfaces. <i>Chemical Engineering Science</i> , 2018 , 177, 261-269	4.4	15
247	Continuous-flow trapping and localized enrichment of micro- and nano-particles using induced-charge electrokinetics. <i>Soft Matter</i> , 2018 , 14, 1056-1066	3.6	8
246	Enhanced cell trapping throughput using DC-biased AC electric field in a dielectrophoresis-based fluidic device with densely packed silica beads. <i>Electrophoresis</i> , 2018 , 39, 878-886	3.6	6
245	Continuous hypergravity alters the cytoplasmic elasticity of MC3T3-E1 osteoblasts via actin filaments. <i>Journal of Biomechanics</i> , 2018 , 72, 222-227	2.9	5
244	Numerical analysis and experimental visualization of phase change material melting process for thermal management of cylindrical power battery. <i>Applied Thermal Engineering</i> , 2018 , 128, 489-499	5.8	42
243	On-chip generation of microbubbles in photoacoustic contrast agents for dual modal ultrasound/photoacoustic in vivo animal imaging. <i>Scientific Reports</i> , 2018 , 8, 6401	4.9	27

242	Inertial-Based Filtration Method for Removal of Microcarriers from Mesenchymal Stem Cell Suspensions. <i>Scientific Reports</i> , 2018 , 8, 12481	4.9	18
241	Wetting transition of sessile and condensate droplets on copper-based superhydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 280-288	4.9	9
240	Comparison of direct numerical simulation with volume-averaged method on composite phase change materials for thermal energy storage. <i>Applied Energy</i> , 2018 , 229, 700-714	10.7	45
239	Hydrodynamic Effects on Particle Deposition in Microchannel Flows at Elevated Temperatures. <i>Journal of Heat Transfer</i> , 2018 , 140,	1.8	3
238	Transient characteristics of electric double layer charging and the associated induced-charge electrokinetic flow. <i>Physics of Fluids</i> , 2018 , 30, 122005	4.4	4
237	Interdroplet freezing wave propagation of condensation frosting on micropillar patterned superhydrophobic surfaces of varying pitches. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 1048-1056	4.9	36
236	Permeability model of micro-metal foam with surface micro-roughness. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	3
235	Quantitative Analyses of Dynamic Features of Fibroblasts on Different Protein-Coated Compliant Substrates. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2987-2998	5.5	3
234	Frost spreading on microscale wettability/morphology patterned surfaces. <i>Applied Thermal Engineering</i> , 2017 , 121, 136-145	5.8	25
233	Rapid prototyping of single-layer microfluidic PDMS devices with abrupt depth variations under non-clean-room conditions by using laser ablation and UV-curable polymer. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	9
232	A human thermal balance based evaluation of thermal comfort subject to radiant cooling system and sedentary status. <i>Applied Thermal Engineering</i> , 2017 , 122, 461-472	5.8	19
231	Numerical Investigation on the Relationship between Human Thermal Comfort and Thermal Balance under Radiant Cooling System. <i>Energy Procedia</i> , 2017 , 105, 2879-2884	2.3	10
230	Induced charge effects on electrokinetic entry flow. <i>Physics of Fluids</i> , 2017 , 29, 062001	4.4	33
229	Lab-on-chip microfluidic impedance measurement for laminar flow ratio sensing and differential conductivity difference detection. <i>Applied Physics Letters</i> , 2017 , 110, 233501	3.4	6
228	A multi-module microfluidic platform for continuous pre-concentration of water-soluble ions and separation of oil droplets from oil-in-water (O/W) emulsions using a DC-biased AC electrokinetic technique. <i>Electrophoresis</i> , 2017 , 38, 645-652	3.6	11
227	Confined wetting of water on CNT web patterned surfaces. <i>Applied Physics Letters</i> , 2017 , 111, 161604	3.4	6
226	Pairing of integrins with ECM proteins determines migrasome formation. <i>Cell Research</i> , 2017 , 27, 1397-1409	4.9	36
225	Electrokinetically driven continuous-flow enrichment of colloidal particles by Joule heating induced temperature gradient focusing in a convergent-divergent microfluidic structure. <i>Scientific Reports</i> , 2017 , 7, 10803	4.9	2

224	Design method of radiant cooling area based on the relationship between human thermal comfort and thermal balance. <i>Energy Procedia</i> , 2017 , 143, 100-105	2.3	1
223	Dynamic Electroosmotic Flows of Power-Law Fluids in Rectangular Microchannels. <i>Micromachines</i> , 2017 , 8, 34	3.3	18
222	Microfluidic Techniques for Analytes Concentration. <i>Micromachines</i> , 2017 , 8, 28	3.3	31
221	Sample concentration in a microfluidic paper-based analytical device using ion concentration polarization. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 735-740	8.5	68
220	A membrane-free micro-fluidic microbial fuel cell for rapid characterization of exoelectrogenic bacteria. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	4
219	Integrin endocytosis on elastic substrates mediates mechanosensing. <i>Journal of Biomechanics</i> , 2016 , 49, 2644-2654	2.9	7
218	Thermophoresis of charged colloidal particles in aqueous media [Effect of particle size. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 1283-1291	4.9	14
217	Combinational concentration gradient confinement through stagnation flow. <i>Lab on A Chip</i> , 2016 , 16, 368-76	7.2	8
216	Bubble dynamics in a microfluidic chamber under low-frequency actuation. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	4
215	Cells Sensing Mechanical Cues: Stiffness Influences the Lifetime of Cell-Extracellular Matrix Interactions by Affecting the Loading Rate. <i>ACS Nano</i> , 2016 , 10, 207-17	16.7	41
214	Freezing of sessile water droplet for various contact angles. <i>International Journal of Thermal Sciences</i> , 2016 , 101, 59-67	4.1	69
213	Particulate Fouling and Mitigation Approach in Microchannel Heat Exchanger 2016 ,		1
212	Extracellular matrix stiffness dictates Wnt expression through integrin pathway. <i>Scientific Reports</i> , 2016 , 6, 20395	4.9	96
211	Substrate stiffness of endothelial cells directs LFA-1/ICAM-1 interaction: A physical trigger of immune-related diseases?. <i>Clinical Hemorheology and Microcirculation</i> , 2016 , 61, 633-43	2.5	5
210	Vortex generation and control in a microfluidic chamber with actuations. <i>Physics of Fluids</i> , 2016 , 28, 122001	4.1	20
209	Retarded condensate freezing propagation on superhydrophobic surfaces patterned with micropillars. <i>Applied Physics Letters</i> , 2016 , 108, 061605	3.4	46
208	Solidification of fluid saturated in open-cell metallic foams with graded morphologies. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 98, 60-69	4.9	57
207	MAPK-Mediated YAP Activation Controls Mechanical-Tension-Induced Pulmonary Alveolar Regeneration. <i>Cell Reports</i> , 2016 , 16, 1810-9	10.6	100

206	Deposition of colloidal particles in a microchannel at elevated temperatures. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 403-414	2.8	11
205	Superhydrophobic carbon nanotube/polydimethylsiloxane composite coatings. <i>Materials Science and Technology</i> , 2015 , 31, 1745-1748	1.5	11
204	Hypergravity-induced enrichment of α integrin on the cell membranes of osteoblast-like cells via caveolae-dependent endocytosis. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 463, 928-334	3.4	9
203	Continuous Droplet-Based Liquid-Liquid Extraction of Phenol from Oil. <i>Separation Science and Technology</i> , 2015 , 50, 1023-1029	2.5	11
202	Induced-charge electrokinetics in a conducting nanochannel with broken geometric symmetry: Towards a flexible control of ionic transport. <i>Physics of Fluids</i> , 2015 , 27, 012003	4.4	9
201	Three dimensional features of convective heat transfer in droplet-based microchannel heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 86, 455-464	4.9	27
200	Binding of integrin β to bone morphogenetic protein receptor IA suggests a novel role of integrin β in bone morphogenetic protein 2 signalling. <i>Journal of Biomechanics</i> , 2015 , 48, 3950-4	2.9	7
199	Continuous detection of trace level concentration of oil droplets in water using microfluidic AC electroosmosis (ACEO). <i>RSC Advances</i> , 2015 , 5, 70197-70203	3.7	7
198	Rapid concentration of deoxyribonucleic acid via Joule heating induced temperature gradient focusing in poly-dimethylsiloxane microfluidic channel. <i>Analytica Chimica Acta</i> , 2015 , 858, 91-7	6.6	11
197	. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 394-403	5.4	29
196	Bubble Translation at Low-frequency Actuation in a Resonator-shaped Microfluidic Chamber. <i>Procedia Engineering</i> , 2015 , 126, 711-715		
195	Enhancement of electrophoretic mobility of microparticles near a solid wall--experimental verification. <i>Electrophoresis</i> , 2015 , 36, 731-6	3.6	16
194	Effects of Hypergravity on Osteopontin Expression in Osteoblasts. <i>PLoS ONE</i> , 2015 , 10, e0128846	3.7	17
193	Thermal Effect on Microchannel Electro-osmotic Flow With Consideration of Thermodiffusion. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	9
192	Fabrication of nanoporous junctions using off-the-shelf Nafion membrane. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 115019	2	8
191	Translational thermophoresis and rotational movement of peanut-like colloids under temperature gradient. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 805-811	2.8	16
190	Experimental study on thermophoresis of colloids in aqueous surfactant solutions. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 495102	1.8	7
189	Microfluidic concentration of sample solutes using Joule heating effects under a combined AC and DC electric field. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 158-165	4.9	7

188	Ion transport and selection through DCGC-based electroosmosis in a conducting nanofluidic channel. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 785-794	2.8	7
187	Mixing enhancement by the vortex in a microfluidic mixer with actuation. <i>Experimental Thermal and Fluid Science</i> , 2015 , 67, 57-61	3	12
186	Dish-Stirling Solar Power Plants: Modeling, Analysis, and Control of Receiver Temperature. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 398-407	8.2	22
185	Saturated pool boiling from carbon nanotube coated surfaces at different orientations. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 893-904	4.9	32
184	Continuous separation of multiple particles by negative and positive dielectrophoresis in a modified H-filter. <i>Electrophoresis</i> , 2014 , 35, 714-20	3.6	12
183	Energy Conversion from Salinity Gradients by Forward Osmosis Electrokinetics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10574-10583	3.8	14
182	Stress fiber response to mechanics: a free energy dependent statistical model. <i>Soft Matter</i> , 2014 , 10, 4603-8	3.6	4
181	An average-value model of kinematic Stirling engine for the study of variable-speed operations of dish-stirling solar-thermal generating system 2014 ,		5
180	Vortex generation in a microfluidic chamber with actuations. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	2
179	Asymmetric heat transfer in liquid-liquid segmented flow in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 385-394	4.9	3
178	Flow Boiling Heat Transfer Enhancement from Carbon Nanotube-Enhanced Surfaces. <i>Defect and Diffusion Forum</i> , 2014 , 348, 20-26	0.7	
177	Integrin activation and internalization mediated by extracellular matrix elasticity: a biomechanical model. <i>Journal of Biomechanics</i> , 2014 , 47, 1479-84	2.9	28
176	Engineering microfluidic concentration gradient generators for biological applications. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 1-18	2.8	124
175	Trapping of submicron and micron-sized particles using innovative induced-charge electrokinetic flow 2014 ,		2
174	Dielectrophoresis Field-Flow Fractionation for Continuous-Flow Separation of Particles and Cells in Microfluidic Devices. <i>Advances in Transport Phenomena</i> , 2014 , 29-62		8
173	Electroosmotic flows of non-Newtonian power-law fluids in a cylindrical microchannel. <i>Electrophoresis</i> , 2013 , 34, 662-7	3.6	43
172	Collective effects on thermophoresis of colloids: a microfluidic study within the framework of DLVO theory. <i>Soft Matter</i> , 2013 , 9, 7726	3.6	36
171	On the Anomalous Convective Heat Transfer Enhancement in Nanofluids: A Theoretical Answer to the Nanofluids Controversy. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	75

170	Convective heat transfer of nanofluids in a concentric annulus. <i>International Journal of Thermal Sciences</i> , 2013 , 71, 249-257	4.1	80
169	Dynamic contact angle of water-based titanium oxide nanofluid. <i>Nanoscale Research Letters</i> , 2013 , 8, 282	5	23
168	Electrokinetics of non-Newtonian fluids: a review. <i>Advances in Colloid and Interface Science</i> , 2013 , 201-202, 94-108	14.3	99
167	A dual-scale model for the caveolin-mediated vesiculation. <i>Soft Matter</i> , 2013 , 9, 7981	3.6	6
166	New Flutter-Suppression Method for a Missile Fin with an Actuator. <i>Journal of Aircraft</i> , 2013 , 50, 989-994	1.6	9
165	Electrokinetic Transport of Microparticles in the Microfluidic Enclosure Domain 2013 , 319-326		
164	Visco-elastic traffic flow model. <i>Journal of Advanced Transportation</i> , 2013 , 47, 635-649	1.9	16
163	A multi-point laser Doppler vibrometer with fiber-based configuration. <i>Review of Scientific Instruments</i> , 2013 , 84, 121702	1.7	13
162	Dielectrophoretic Characterization and Continuous Separation of Cells in a PDMS Microfluidic Device with Sidewall Conducting PDMS Composite Electrodes 2013 , 171-185		
161	Cyclic deformation-induced injury and differentiation of rat alveolar epithelial type II cells. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 180, 237-46	2.8	8
160	Advances in electrokinetics and their applications in micro/nano fluidics. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 179-203	2.8	91
159	Electro-osmotic flows in a microchannel with patterned hydrodynamic slip walls. <i>Electrophoresis</i> , 2012 , 33, 899-980	3.6	14
158	Electrokinetically driven concentration of particles and cells by dielectrophoresis with DC-offset AC electric field. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 723-733	2.8	47
157	Joule heating induced heat transfer for electroosmotic flow of power-law fluids in a microcapillary. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2044-2051	4.9	28
156	AC-dielectrophoretic characterization and separation of submicron and micron particles using sidewall AgPDMS electrodes. <i>Biomicrofluidics</i> , 2012 , 6, 12807-128079	3.2	24
155	Preface to special topic: selected papers from the second conference on advances in microfluidics and nanofluidics and Asia-pacific international symposium on lab on chip. <i>Biomicrofluidics</i> , 2012 , 6, 12701-127012	3.2	127012
154	A method of producing electrokinetic power through forward osmosis. <i>Applied Physics Letters</i> , 2012 , 101, 143902	3.4	13
153	Fabrication and Experimental Characterization of Nanochannels. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	8

152	Microfluidic Bubble Generation by Acoustic Field for Mixing Enhancement. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	11
151	Effects of Cyclic Uniaxial Stretch on Mammalian Cell Division Direction*. <i>Progress in Biochemistry and Biophysics</i> , 2012 , 39, 59-67		
150	Towards high concentration enhancement of microfluidic temperature gradient focusing of sample solutes using combined AC and DC field induced Joule heating. <i>Lab on A Chip</i> , 2011 , 11, 1396-402	7.2	24
149	Mixing enhancement for high viscous fluids in a microfluidic chamber. <i>Lab on A Chip</i> , 2011 , 11, 2081-7	7.2	53
148	Capillary Filling in Nanochannels Modeling, Fabrication, and Experiments. <i>Heat Transfer Engineering</i> , 2011 , 32, 624-635	1.7	16
147	Effects of stress fiber contractility on uniaxial stretch guiding mitosis orientation and stress fiber alignment. <i>Journal of Biomechanics</i> , 2011 , 44, 2388-94	2.9	17
146	Alveolar type II cells escape stress failure caused by tonic stretch through transient focal adhesion disassembly. <i>International Journal of Biological Sciences</i> , 2011 , 7, 588-99	11.2	7
145	An exact solution for electroosmosis of non-Newtonian fluids in microchannels. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011 , 166, 1076-1079	2.7	71
144	On the competition between streaming potential effect and hydrodynamic slip effect in pressure-driven microchannel flows. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 386, 191-194	5.1	13
143	Electro-osmotic mobility of non-Newtonian fluids. <i>Biomicrofluidics</i> , 2011 , 5, 14110	3.2	46
142	AC field induced-charge electroosmosis over leaky dielectric blocks embedded in a microchannel. <i>Electrophoresis</i> , 2011 , 32, 629-37	3.6	34
141	Adsorption kinetics of methane on a template-synthesized carbon powder and its pellet. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 294-300	1.3	5
140	Microfluidic characterization and continuous separation of cells and particles using conducting poly(dimethyl siloxane) electrode induced alternating current-dielectrophoresis. <i>Analytical Chemistry</i> , 2011 , 83, 9579-85	7.8	93
139	Methane storage in carbon pellets prepared via a binderless method. <i>Energy Conversion and Management</i> , 2011 , 52, 1258-1262	10.6	23
138	ac Electrokinetic phenomena over semiconductive surfaces: effective electric boundary conditions and their applications. <i>Physical Review E</i> , 2011 , 83, 066304	2.4	17
137	Integrin activation and internalization on soft ECM as a mechanism of induction of stem cell differentiation by ECM elasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9466-71	11.5	248
136	Epimorphin regulates bile duct formation via effects on mitosis orientation in rat liver epithelial stem-like cells. <i>PLoS ONE</i> , 2010 , 5, e9732	3.7	15
135	Mixing enhancement in microfluidic channel with a constriction under periodic electro-osmotic flow. <i>Biomicrofluidics</i> , 2010 , 4, 14101	3.2	67

134	Capillary filling in closed end nanochannels. <i>Langmuir</i> , 2010 , 26, 13251-5	4	60
133	On-demand droplet release for droplet-based microfluidic system. <i>Lab on A Chip</i> , 2010 , 10, 559-62	7.2	55
132	Capillary filling with the effect of pneumatic pressure of trapped air. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 65-75	2.8	18
131	Valveless micropump with acoustically featured pumping chamber. <i>Microfluidics and Nanofluidics</i> , 2010 , 8, 549-555	2.8	42
130	Droplet microfluidic preparation of au nanoparticles-coated chitosan microbeads for flow-through surface-enhanced Raman scattering detection. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 1175-1183	2.8	22
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