Chun Yang

List of Publications by Year
in descending order

335 papers	14,044 citations	28190 55 h-index	26548 107 g-index
347 all docs	347 docs citations	347 times ranked	10679 citing authors

#	Article	IF	Citations
1	Enhanced thermal conductivity of TiO2â€"water based nanofluids. International Journal of Thermal Sciences, 2005, 44, 367-373.	2.6	1,164
2	Investigations of thermal conductivity and viscosity of nanofluids. International Journal of Thermal Sciences, 2008, 47, 560-568.	2.6	914
3	A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, .	1.1	897
4	Thermophysical and electrokinetic properties of nanofluids â€" A critical review. Applied Thermal Engineering, 2008, 28, 2109-2125.	3.0	553
5	A model for the thermal conductivity of nanofluids â€" the effect of interfacial layer. Journal of Nanoparticle Research, 2006, 8, 245-254.	0.8	324
6	Integrin activation and internalization on soft ECM as a mechanism of induction of stem cell differentiation by ECM elasticity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9466-9471.	3.3	302
7	Modeling forced liquid convection in rectangular microchannels with electrokinetic effects. International Journal of Heat and Mass Transfer, 1998, 41, 4229-4249.	2.5	280
8	Analysis of electroosmotic flow of power-law fluids in a slit microchannel. Journal of Colloid and Interface Science, 2008, 326, 503-510.	5.0	254
9	Measurement of the Zeta Potential of Gas Bubbles in Aqueous Solutions by Microelectrophoresis Method. Journal of Colloid and Interface Science, 2001, 243, 128-135.	5.0	245
10	Progressive Pulmonary Fibrosis Is Caused by Elevated Mechanical Tension on Alveolar Stem Cells. Cell, 2020, 180, 107-121.e17.	13.5	233
11	A combined model for the effective thermal conductivity of nanofluids. Applied Thermal Engineering, 2009, 29, 2477-2483.	3.0	203
12	Perspectives for low-temperature waste heat recovery. Energy, 2019, 176, 1037-1043.	4.5	189
13	MAPK-Mediated YAP Activation Controls Mechanical-Tension-Induced Pulmonary Alveolar Regeneration. Cell Reports, 2016, 16, 1810-1819.	2.9	178
14	Analysis of electrokinetic effects on the liquid flow in rectangular microchannels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 143, 339-353.	2.3	171
15	Joule heating effect on electroosmotic flow and mass species transport in a microcapillary. International Journal of Heat and Mass Transfer, 2004, 47, 215-227.	2.5	170
16	Dynamic aspects of electroosmotic flow in a cylindrical microcapillary. International Journal of Engineering Science, 2002, 40, 2203-2221.	2.7	163
17	Electroosmotic Flow in a Capillary Annulus with High Zeta Potentials. Journal of Colloid and Interface Science, 2002, 253, 285-294.	5.0	155
18	Extracellular matrix stiffness dictates Wnt expression through integrin pathway. Scientific Reports, 2016, 6, 20395.	1.6	155

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19	Engineering microfluidic concentration gradient generators for biological applications. Microfluidics and Nanofluidics, 2014, 16, 1-18.	1.0	152
20	DC-biased AC-electroosmotic and AC-electrothermal flow mixing in microchannels. Lab on A Chip, 2009, 9, 802-809.	3.1	141
21	Thermal analysis of conjugated cooling configurations using phase change material and liquid cooling techniques for a battery module. International Journal of Heat and Mass Transfer, 2019, 133, 827-841.	2.5	137
22	Electrokinetics of non-Newtonian fluids: A review. Advances in Colloid and Interface Science, 2013, 201-202, 94-108.	7.0	131
23	Electrokinetic Effects on Pressure-Driven Liquid Flows in Rectangular Microchannels. Journal of Colloid and Interface Science, 1997, 194, 95-107.	5.0	124
24	Microfluidic Characterization and Continuous Separation of Cells and Particles Using Conducting Poly(dimethyl siloxane) Electrode Induced Alternating Current-Dielectrophoresis. Analytical Chemistry, 2011, 83, 9579-9585.	3.2	115
25	Advances in electrokinetics and their applications in micro/nano fluidics. Microfluidics and Nanofluidics, 2012, 13, 179-203.	1.0	115
26	On-demand microfluidic droplet trapping and fusion for on-chip static droplet assays. Lab on A Chip, 2009, 9, 1504.	3.1	108
27	Two-fluid electroosmotic flow in microchannels. Journal of Colloid and Interface Science, 2005, 284, 306-314.	5.0	103
28	Continuous sorting and separation of microparticles by size using AC dielectrophoresis in a PDMS microfluidic device with 3â€Đ conducting PDMS composite electrodes. Electrophoresis, 2010, 31, 2622-2631.	1.3	103
29	Freezing of sessile water droplet for various contact angles. International Journal of Thermal Sciences, 2016, 101, 59-67.	2.6	97
30	Convective heat transfer of nanofluids in a concentric annulus. International Journal of Thermal Sciences, 2013, 71, 249-257.	2.6	96
31	Exact solutions for electro-osmotic flow of viscoelastic fluids in rectangular micro-channels. Applied Mathematics and Computation, 2009, 211, 502-509.	1.4	95
32	Assessment of Joule heating and its effects on electroosmotic flow and electrophoretic transport of solutes in microfluidic channels. Electrophoresis, 2006, 27, 628-639.	1.3	88
33	An exact solution for electroosmosis of non-Newtonian fluids in microchannels. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1076-1079.	1.0	88
34	On the Anomalous Convective Heat Transfer Enhancement in Nanofluids: A Theoretical Answer to the Nanofluids Controversy. Journal of Heat Transfer, 2013, 135, .	1.2	88
35	Sample concentration in a microfluidic paper-based analytical device using ion concentration polarization. Sensors and Actuators B: Chemical, 2016, 222, 735-740.	4.0	84
36	Dielectrophoretic manipulation of particles in a modified microfluidic H filter with multi-insulating blocks. Biomicrofluidics, 2008, 2, 34105.	1.2	83

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37	Pairing of integrins with ECM proteins determines migrasome formation. Cell Research, 2017, 27, 1397-1400.	5.7	83
38	Determination of the effective thermal diffusivity of nanofluids by the double hot-wire technique. Journal Physics D: Applied Physics, 2006, 39, 5316-5322.	1.3	81
39	Solidification of fluid saturated in open-cell metallic foams with graded morphologies. International Journal of Heat and Mass Transfer, 2016, 98, 60-69.	2.5	80
40	Numerical analysis of the thermal effect on electroosmotic flow and electrokinetic mass transport in microchannels. Analytica Chimica Acta, 2004, 507, 27-37.	2.6	79
41	Acoustically induced bubbles in a microfluidic channel for mixing enhancement. Microfluidics and Nanofluidics, 2009, 6, 847-852.	1.0	77
42	Nonlinear Smoluchowski velocity for electroosmosis of Powerâ€law fluids over a surface with arbitrary zeta potentials. Electrophoresis, 2010, 31, 973-979.	1.3	74
43	Transient Analysis of Electroosmotic Flow in a Slit Microchannel. Journal of Colloid and Interface Science, 2002, 248, 524-527.	5.0	73
44	Mixing enhancement in microfluidic channel with a constriction under periodic electro-osmotic flow. Biomicrofluidics, 2010, 4, 014101.	1.2	73
45	Numerical analysis and experimental visualization of phase change material melting process for thermal management of cylindrical power battery. Applied Thermal Engineering, 2018, 128, 489-499.	3.0	70
46	Capillary Filling in Closed End Nanochannels. Langmuir, 2010, 26, 13251-13255.	1.6	69
47	Characterization of a zeolite-templated carbon for H2 storage application. Microporous and Mesoporous Materials, 2009, 118, 503-507.	2.2	68
48	Comparison of direct numerical simulation with volume-averaged method on composite phase change materials for thermal energy storage. Applied Energy, 2018, 229, 700-714.	5.1	67
49	Mixing enhancement for high viscous fluids in a microfluidic chamber. Lab on A Chip, 2011, 11, 2081.	3.1	65
50	Determination of the diffusivity of point defects in passive films on carbon steel. Thin Solid Films, 2002, 416, 169-173.	0.8	64
51	Electro-osmotic mobility of non-Newtonian fluids. Biomicrofluidics, 2011, 5, 14110.	1.2	62
52	Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. Microfluidics and Nanofluidics, 2006, 3, 101-108.	1.0	59
53	On-demand droplet release for droplet-based microfluidic system. Lab on A Chip, 2010, 10, 559.	3.1	59
54	Retarded condensate freezing propagation on superhydrophobic surfaces patterned with micropillars. Applied Physics Letters, 2016, 108, .	1.5	59

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55	Transient two-liquid electroosmotic flow with electric charges at the interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 266, 117-128.	2.3	57
56	Modeling of Electroosmotic Flow and Capillary Electrophoresis with the Joule Heating Effect:Â The Nernstâ€"Planck Equation versus the Boltzmann Distribution. Langmuir, 2003, 19, 10975-10984.	1.6	55
57	Electroosmotic flows of nonâ€<scp>N</scp>ewtonian powerâ€law fluids in a cylindrical microchannel. Electrophoresis, 2013, 34, 662-667.	1.3	55
58	Cells Sensing Mechanical Cues: Stiffness Influences the Lifetime of Cellâ€"Extracellular Matrix Interactions by Affecting the Loading Rate. ACS Nano, 2016, 10, 207-217.	7.3	54
59	Dynamic Cell Fractionation and Transportation Using Moving Dielectrophoresis. Analytical Chemistry, 2007, 79, 6975-6987.	3.2	52
60	Electrokinetically driven concentration of particles and cells by dielectrophoresis with DC-offset AC electric field. Microfluidics and Nanofluidics, 2012, 12, 723-733.	1.0	52
61	Frequency-dependent laminar electroosmotic flow in a closed-end rectangular microchannel. Journal of Colloid and Interface Science, 2004, 275, 679-698.	5.0	51
62	Interdroplet freezing wave propagation of condensation frosting on micropillar patterned superhydrophobic surfaces of varying pitches. International Journal of Heat and Mass Transfer, 2017, 108, 1048-1056.	2.5	51
63	Valveless micropump with acoustically featured pumping chamber. Microfluidics and Nanofluidics, 2010, 8, 549-555.	1.0	50
64	Saturated pool boiling from carbon nanotube coated surfaces at different orientations. International Journal of Heat and Mass Transfer, 2014, 79, 893-904.	2.5	48
65	Developing pressure-driven liquid flow in microchannels under the electrokinetic effect. International Journal of Engineering Science, 2004, 42, 609-622.	2.7	47
66	Simulation of droplet formation and coalescence using lattice Boltzmann-based single-phase model. Journal of Colloid and Interface Science, 2007, 311, 609-618.	5.0	45
67	Enhancement of electrokinetically driven microfluidic Tâ€mixer using frequency modulated electric field and channel geometry effects. Electrophoresis, 2009, 30, 3144-3152.	1.3	45
68	Effect of finite reservoir size on electroosmotic flow in microchannels. Microfluidics and Nanofluidics, 2007, 3, 333-340.	1.0	43
69	Collective effects on thermophoresis of colloids: a microfluidic study within the framework of DLVO theory. Soft Matter, 2013, 9, 7726.	1.2	43
70	Reduced contact time of a droplet impacting on a moving superhydrophobic surface. Applied Physics Letters, 2020, 117, .	1.5	43
71	Surface-tension-driven liquidâ€"liquid displacement in a capillary. Journal of Micromechanics and Microengineering, 2005, 15, 1722-1728.	1.5	42
72	Electro-osmotic control of the interface position of two-liquid flow through a microchannel. Journal of Micromechanics and Microengineering, 2007, 17, 358-366.	1.5	42

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73	Microfluidic Techniques for Analytes Concentration. Micromachines, 2017, 8, 28.	1.4	42
74	Kinetics of Particle Transport to a Solid Surface from an Impinging Jet under Surface and External Force Fields. Journal of Colloid and Interface Science, 1998, 208, 226-240.	5.0	41
75	Electrical double layer potential distribution in a rectangular microchannel. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 135, 109-116.	2.3	41
76	Dynamic aspects of electroosmotic flow in rectangular microchannels. International Journal of Engineering Science, 2004, 42, 1459-1481.	2.7	41
77	A MODEL FOR PREDICTING THE EFFECTIVE THERMAL CONDUCTIVITY OF NANOPARTICLE-FLUID SUSPENSIONS. International Journal of Nanoscience, 2006, 05, 23-33.	0.4	41
78	Characterization of electroosmotic flow in rectangular microchannels. International Journal of Heat and Mass Transfer, 2007, 50, 3115-3121.	2.5	41
79	Design of Variable-Speed Dish-Stirling Solarâ€“Thermal Power Plant for Maximum Energy Harness. IEEE Transactions on Energy Conversion, 2015, 30, 394-403.	3.7	41
80	Joule heating and its effects on electrokinetic transport of solutes in rectangular microchannels. Sensors and Actuators A: Physical, 2007, 139, 221-232.	2.0	40
81	Cell Motion Model for Moving Dielectrophoresis. Analytical Chemistry, 2008, 80, 5454-5461.	3.2	40
82	Interface control of pressure-driven two-fluid flow in microchannels using electroosmosis. Journal of Micromechanics and Microengineering, 2005, 15, 2289-2297.	1.5	39
83	Inertial particle focusing dynamics in a trapezoidal straight microchannel: application to particle filtration. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	39
84	Visualizing the transient electroosmotic flow and measuring the zeta potential of microchannels with a micro-PIV technique. Journal of Chemical Physics, 2006, 124, 021103.	1.2	38
85	Analysis of electrokinetic transport of a spherical particle in a microchannel. Electrophoresis, 2007, 28, 658-664.	1.3	37
86	CONVECTIVE HEAT TRANSFER CHARACTERISTICS OF AQUEOUS TiO₂ NANOFLUID UNDER LAMINAR FLOW CONDITIONS. International Journal of Nanoscience, 2008, 07, 325-331.	0.4	37
87	Analysis of capillary filling in nanochannels with electroviscous effects. Microfluidics and Nanofluidics, 2009, 7, 519-530.	1.0	37
88	AC field inducedâ€charge electroosmosis over leaky dielectric blocks embedded in a microchannel. Electrophoresis, 2011, 32, 629-637.	1.3	36
89	How different freezing morphologies of impacting droplets form. Journal of Colloid and Interface Science, 2021, 584, 403-410.	5.0	36
90	Induced charge effects on electrokinetic entry flow. Physics of Fluids, 2017, 29, .	1.6	35

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91	On-chip generation of microbubbles in photoacoustic contrast agents for dual modal ultrasound/photoacoustic in vivo animal imaging. Scientific Reports, 2018, 8, 6401.	1.6	35
92	Brownian dynamics simulation and experimental study of colloidal particle deposition in a microchannel flow. Journal of Colloid and Interface Science, 2005, 291, 28-36.	5.0	34
93	Modeling of dielectrophoretic force for moving dielectrophoresis electrodes. Journal of Electrostatics, 2008, 66, 514-525.	1.0	34
94	AC-dielectrophoretic characterization and separation of submicron and micron particles using sidewall AgPDMS electrodes. Biomicrofluidics, 2012, 6, 12807-128079.	1.2	34
95	Three dimensional features of convective heat transfer in droplet-based microchannel heat sinks. International Journal of Heat and Mass Transfer, 2015, 86, 455-464.	2.5	34
96	Frost spreading on microscale wettability/morphology patterned surfaces. Applied Thermal Engineering, 2017, 121, 136-145.	3.0	34
97	A method for simultaneously determining the zeta potentials of the channel surface and the tracer particles using microparticle image velocimetry technique. Electrophoresis, 2006, 27, 620-627.	1.3	33
98	Investigation of H2 storage in a templated carbon derived from zeolite Y and PFA. Separation and Purification Technology, 2009, 66, 565-569.	3.9	33
99	Current commercial dPCR platforms: technology and market review. Critical Reviews in Biotechnology, 2023, 43, 433-464.	5.1	33
100	Joule heating induced heat transfer for electroosmotic flow of power-law fluids in a microcapillary. International Journal of Heat and Mass Transfer, 2012, 55, 2044-2051.	2.5	32
101	Dish-Stirling Solar Power Plants: Modeling, Analysis, and Control of Receiver Temperature. IEEE Transactions on Sustainable Energy, 2014, 5, 398-407.	5.9	32
102	A human thermal balance based evaluation of thermal comfort subject to radiant cooling system and sedentary status. Applied Thermal Engineering, 2017, 122, 461-472.	3.0	32
103	Numerical simulation of two-fluid electroosmotic flow in microchannels. International Journal of Heat and Mass Transfer, 2005, 48, 5103-5111.	2.5	31
104	Depthwise averaging approach to cross-stream mixing in a pressure-driven microchannel flow. Microfluidics and Nanofluidics, 2005, 1, 218-226.	1.0	31
105	Integrin activation and internalization mediated by extracellular matrix elasticity: A biomechanical model. Journal of Biomechanics, 2014, 47, 1479-1484.	0.9	31
106	Concentration enhancement of sample solutes in a sudden expansion microchannel with Joule heating. International Journal of Heat and Mass Transfer, 2010, 53, 2722-2731.	2.5	30
107	Efficient Onâ€Demand Compound Droplet Formation: From Microfluidics to Microdroplets as Miniaturized Laboratories. Small, 2009, 5, 1149-1152.	5.2	29
108	Dynamic contact angle of water-based titanium oxide nanofluid. Nanoscale Research Letters, 2013, 8, 282.	3.1	29

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109	Electrokinetic pumping using packed microcapillary. Sensors and Actuators A: Physical, 2007, 133, 375-382.	2.0	28
110	Evaporation of a sessile droplet on flat surfaces: An axisymmetric lattice Boltzmann model with consideration of contact angle hysteresis. International Journal of Heat and Mass Transfer, 2021, 178, 121577.	2.5	28
111	Interfacial Tension Measurement With an Optofluidic Sensor. IEEE Sensors Journal, 2007, 7, 692-697.	2.4	27
112	Towards high concentration enhancement of microfluidic temperature gradient focusing of sample solutes using combined AC and DC field induced Joule heating. Lab on A Chip, 2011, 11, 1396.	3.1	27
113	Axisymmetric lattice Boltzmann model for simulating the freezing process of a sessile water droplet with volume change. Physical Review E, 2020, 101, 023314.	0.8	27
114	Methane storage in carbon pellets prepared via a binderless method. Energy Conversion and Management, 2011, 52, 1258-1262.	4.4	26
115	Absolute instability induced by Marangoni effect in thin liquid film flows on vertical cylindrical surfaces. Chemical Engineering Science, 2018, 177, 261-269.	1.9	26
116	Inertial-Based Filtration Method for Removal of Microcarriers from Mesenchymal Stem Cell Suspensions. Scientific Reports, 2018, 8, 12481.	1.6	26
117	Rapid preâ€concentration of <i>Escherichia coli</i> in a microfluidic paperâ€based device using ion concentration polarization. Electrophoresis, 2020, 41, 867-874.	1.3	26
118	Numerical simulations of the liquid-vapor phase change dynamic processes in a flat micro heat pipe. International Journal of Heat and Mass Transfer, 2020, 147, 119022.	2.5	26
119	Influences of substrate wettability and liquid viscosity on isothermal spreading of liquid droplets on solid surfaces. Experiments in Fluids, 2002, 33, 728-731.	1.1	25
120	Vortex generation and control in a microfluidic chamber with actuations. Physics of Fluids, 2016, 28, .	1.6	25
121	A method of determining the thickness of liquid-liquid interfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 113, 51-59.	2.3	24
122	Molecular dynamics study on the liquidâ€"vapor interfacial profiles. Fluid Phase Equilibria, 2001, 183-184, 321-329.	1.4	24
123	Analysis of the electroosmotic flow in a microchannel packed with homogeneous microspheres under electrokinetic wall effect. International Journal of Engineering Science, 2004, 42, 2011-2027.	2.7	24
124	Developing electro-osmotic flow in closed-end micro-channels. International Journal of Engineering Science, 2005, 43, 1349-1362.	2.7	24
125	Numerical modeling of Joule heatingâ€induced temperature gradient focusing in microfluidic channels. Electrophoresis, 2008, 29, 1006-1012.	1.3	24
126	Freezing morphologies of impact water droplets on an inclined subcooled surface. International Journal of Heat and Mass Transfer, 2021, 181, 121843.	2.5	24

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127	Diagnosis of transient electrokinetic flow in microfluidic channels. Physics of Fluids, 2007, 19, 017114.	1.6	23
128	Analysis of induced-charge electro-osmotic flow in a microchannel embedded with polarizable dielectric blocks. Physical Review E, 2009, 80, 046312.	0.8	23
129	Viscoâ€elastic traffic flow model. Journal of Advanced Transportation, 2013, 47, 635-649.	0.9	23
130	Dynamic Electroosmotic Flows of Power-Law Fluids in Rectangular Microchannels. Micromachines, 2017, 8, 34.	1.4	23
131	Breakup of ultra-thin liquid films on vertical fiber enhanced by Marangoni effect. Chemical Engineering Science, 2019, 199, 342-348.	1.9	23
132	Frequency-dependent velocity and vorticity fields of electro-osmotic flow in a closed-end cylindrical microchannel. Journal of Micromechanics and Microengineering, 2005, 15, 301-312.	1.5	22
133	Droplet microfluidic preparation of au nanoparticles-coated chitosan microbeads for flow-through surface-enhanced Raman scattering detection. Microfluidics and Nanofluidics, 2010, 9, 1175-1183.	1.0	22
134	Promote anti- /de- frosting by suppressing directional ice bridging. International Journal of Heat and Mass Transfer, 2021, 165, 120609.	2.5	22
135	Electroosmotic flow in irregular shape microchannels. International Journal of Engineering Science, 2005, 43, 1450-1463.	2.7	21
136	Capillary filling with the effect of pneumatic pressure of trapped air. Microfluidics and Nanofluidics, 2010, 9, 65-75.	1.0	21
137	A method of producing electrokinetic power through forward osmosis. Applied Physics Letters, 2012, 101, .	1.5	21
138	Energy Conversion from Salinity Gradients by Forward Osmosisâ€"Electrokinetics. Journal of Physical Chemistry C, 2014, 118, 10574-10583.	1.5	21
139	Thermophoresis of charged colloidal particles in aqueous media â€" Effect of particle size. International Journal of Heat and Mass Transfer, 2016, 101, 1283-1291.	2.5	21
140	Effects of stress fiber contractility on uniaxial stretch guiding mitosis orientation and stress fiber alignment. Journal of Biomechanics, 2011, 44, 2388-2394.	0.9	20
141	Effects of Hypergravity on Osteopontin Expression in Osteoblasts. PLoS ONE, 2015, 10, e0128846.	1.1	20
142	Numerical simulation of Joule heating effect on sample band transport in capillary electrophoresis. Analytica Chimica Acta, 2006, 561, 138-149.	2.6	19
143	Translational thermophoresis and rotational movement of peanut-like colloids under temperature gradient. Microfluidics and Nanofluidics, 2015, 19, 805-811.	1.0	19
144	Numerical Computation of Hydrodynamically and Thermally Developing Liquid Flow in Microchannels With Electrokinetics Effects. Journal of Heat Transfer, 2004, 126, 70-75.	1.2	18

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145	Joule Heating Induced Transient Temperature Field and Its Effects on Electroosmosis in a Microcapillary Packed with Microspheres. Langmuir, 2005, 21, 7598-7607.	1.6	18
146	Lattice Boltzmann-based single-phase method for free surface tracking of droplet motions. International Journal for Numerical Methods in Fluids, 2007, 53, 333-351.	0.9	18
147	Superhydrophobic carbon nanotube/polydimethylsiloxane composite coatings. Materials Science and Technology, 2015, 31, 1745-1748.	0.8	18
148	AC electroosmosis in microchannels packed with a porous medium. Journal of Micromechanics and Microengineering, 2004, 14, 1249-1257.	1.5	17
149	Characterization of surface tension and contact angle of nanofluids. Proceedings of SPIE, 2009, , .	0.8	17
150	Capillary Filling in Nanochannelsâ€"Modeling, Fabrication, and Experiments. Heat Transfer Engineering, 2011, 32, 624-635.	1.2	17
151	On the competition between streaming potential effect and hydrodynamic slip effect in pressure-driven microchannel flows. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 386, 191-194.	2.3	17
152	ac electrokinetic phenomena over semiconductive surfaces: Effective electric boundary conditions and their applications. Physical Review E, 2011, 83, 066304.	0.8	17
153	Electroâ€osmotic flows in a microchannel with patterned hydrodynamic slip walls. Electrophoresis, 2012, 33, 899-905.	1.3	17
154	A multi-point laser Doppler vibrometer with fiber-based configuration. Review of Scientific Instruments, 2013, 84, 121702.	0.6	17
155	Enhancement of electrophoretic mobility of microparticles near a solid wallâ€"Experimental verification. Electrophoresis, 2015, 36, 731-736.	1.3	17
156	Deposition of colloidal particles in a microchannel at elevated temperatures. Microfluidics and Nanofluidics, 2015, 18, 403-414.	1.0	17
157	Membrane-based indirect power generation technologies for harvesting salinity gradient energy - A review. Desalination, 2022, 525, 115485.	4.0	17
158	Kinetics of microbubbleâ€"solid surface interaction and attachment. AIChE Journal, 2003, 49, 1024-1037.	1.8	16
159	Joule heating and its effects on electroosmotic flow in microfluidic channels. Journal of Physics: Conference Series, 2006, 34, 925-930.	0.3	16
160	Microfluidic Bubble Generation by Acoustic Field for Mixing Enhancement. Journal of Heat Transfer, 2012, 134, .	1.2	16
161	Rapid concentration of deoxyribonucleic acid via Joule heating induced temperature gradient focusing in poly-dimethylsiloxane microfluidic channel. Analytica Chimica Acta, 2015, 858, 91-97.	2.6	16
162	A multiâ€module microfluidic platform for continuous preâ€concentration of waterâ€soluble ions and separation of oil droplets from oilâ€inâ€water (O/W) emulsions using a DCâ€biased AC electrokinetic technique. Electrophoresis, 2017, 38, 645-652.	1.3	16

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163	Wetting transition of sessile and condensate droplets on copper-based superhydrophobic surfaces. International Journal of Heat and Mass Transfer, 2018, 127, 280-288.	2.5	16
164	Freezing characteristics of deposited water droplets on hydrophilic and hydrophobic cold surfaces. International Journal of Thermal Sciences, 2022, 171, 107241.	2.6	16
165	Rapid solidification of highly undercooled Niâ€"Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 307, 35-41.	2.6	15
166	Analysis of electroosmotic flow in a microchannel packed with microspheres. Microfluidics and Nanofluidics, 2005, 1, 168-176.	1.0	15
167	Microfluidic sensor for dynamic surface tension measurement. IET Nanobiotechnology, 2006, 153, 102.	2.1	15
168	Contact line mobility in liquid droplet spreading on rough surface. Journal of Colloid and Interface Science, 2008, 323, 126-132.	5.0	15
169	Colloidal particle deposition from electrokinetic flow in a microfluidic channel. Electrophoresis, 2009, 30, 732-741.	1.3	15
170	A study of capillary flow from a pendant droplet. Microfluidics and Nanofluidics, 2009, 7, 697-707.	1.0	15
171	Epimorphin Regulates Bile Duct Formation via Effects on Mitosis Orientation in Rat Liver Epithelial Stem-Like Cells. PLoS ONE, 2010, 5, e9732.	1.1	15
172	Continuous-flow trapping and localized enrichment of micro- and nano-particles using induced-charge electrokinetics. Soft Matter, 2018, 14, 1056-1066.	1.2	15
173	An Electroporation Device with Microbead-Enhanced Electric Field for Bacterial Inactivation. Inventions, 2020, 5, 2.	1.3	15
174	Freezing process of ferrofluid droplets: Numerical and scaling analyses. Physical Review Fluids, 2020, 5, .	1.0	15
175	Analysis of Fine Bubble Attachment onto a Solid Surface within the Framework of Classical DLVO Theory. Journal of Colloid and Interface Science, 1999, 219, 69-80.	5.0	14
176	A Monte Carlo simulation on surface tension of liquid nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 292, 203-206.	2.6	14
177	A Visualizing Method for Study of Micron Bubble Attachment onto a Solid Surface under Varying Physicochemical Conditions. Industrial & Engineering Chemistry Research, 2000, 39, 4949-4955.	1.8	14
178	Continuous separation of multiple particles by negative and positive dielectrophoresis in a modified Hâ€filter. Electrophoresis, 2014, 35, 714-720.	1.3	14
179	Continuous flow microfluidic cell inactivation with the use of insulating micropillars for multiple electroporation zones. Electrophoresis, 2019, 40, 2522-2529.	1.3	14
180	Chemical screening identifies ROCK1 as a regulator of migrasome formation. Cell Discovery, 2020, 6, 51.	3.1	14

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