Chun Yang

List of Publications by Citations

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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	Enhanced thermal conductivity of TiO2 water based nanofluids. *International Journal of Thermal Sciences*, **2005**, 44, 367-373	4.1	970
294	Investigations of thermal conductivity and viscosity of nanofluids. *International Journal of Thermal Sciences*, **2008**, 47, 560-568	4.1	768
293	A benchmark study on the thermal conductivity of nanofluids. *Journal of Applied Physics*, **2009**, 106, 094312	2.5	766
292	Thermophysical and electrokinetic properties of nanofluids A critical review. *Applied Thermal Engineering*, **2008**, 28, 2109-2125	5.8	460
291	A model for the thermal conductivity of nanofluids the effect of interfacial layer. *Journal of Nanoparticle Research*, **2006**, 8, 245-254	2.3	264
290	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, 9466-71	11.5	248
289	Modeling forced liquid convection in rectangular microchannels with electrokinetic effects. *International Journal of Heat and Mass Transfer*, **1998**, 41, 4229-4249	4.9	232
288	Analysis of electroosmotic flow of power-law fluids in a slit microchannel. *Journal of Colloid and Interface Science*, **2008**, 326, 503-10	9.3	209
287	Measurement of the Zeta Potential of Gas Bubbles in Aqueous Solutions by Microelectrophoresis Method. *Journal of Colloid and Interface Science*, **2001**, 243, 128-135	9.3	198
286	A combined model for the effective thermal conductivity of nanofluids. *Applied Thermal Engineering*, **2009**, 29, 2477-2483	5.8	172
285	Analysis of electrokinetic effects on the liquid flow in rectangular microchannels. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1998**, 143, 339-353	5.1	155
284	Joule heating effect on electroosmotic flow and mass species transport in a microcapillary. *International Journal of Heat and Mass Transfer*, **2004**, 47, 215-227	4.9	137
283	Dynamic aspects of electroosmotic flow in a cylindrical microcapillary. *International Journal of Engineering Science*, **2002**, 40, 2203-2221	5.7	130
282	Engineering microfluidic concentration gradient generators for biological applications. *Microfluidics and Nanofluidics*, **2014**, 16, 1-18	2.8	124
281	Electroosmotic flow in a capillary annulus with high zeta potentials. *Journal of Colloid and Interface Science*, **2002**, 253, 285-94	9.3	124
280	DC-biased AC-electroosmotic and AC-electrothermal flow mixing in microchannels. *Lab on A Chip*, **2009**, 9, 802-9	7.2	121
279	Electrokinetic Effects on Pressure-Driven Liquid Flows in Rectangular Microchannels. *Journal of Colloid and Interface Science*, **1997**, 194, 95-107	9.3	112

278	MAPK-Mediated YAP Activation Controls Mechanical-Tension-Induced Pulmonary Alveolar Regeneration. *Cell Reports*, **2016**, 16, 1810-9	10.6	100
277	Perspectives for low-temperature waste heat recovery. *Energy*, **2019**, 176, 1037-1043	7.9	99
276	Electrokinetics of non-Newtonian fluids: a review. *Advances in Colloid and Interface Science*, **2013**, 201-202, 94-108	14.3	99
275	Extracellular matrix stiffness dictates Wnt expression through integrin pathway. *Scientific Reports*, **2016**, 6, 20395	4.9	96
274	On-demand microfluidic droplet trapping and fusion for on-chip static droplet assays. *Lab on A Chip*, **2009**, 9, 1504-6	7.2	94
273	Microfluidic characterization and continuous separation of cells and particles using conducting poly(dimethyl siloxane) electrode induced alternating current-dielectrophoresis. *Analytical Chemistry*, **2011**, 83, 9579-85	7.8	93
272	Progressive Pulmonary Fibrosis Is Caused by Elevated Mechanical Tension on Alveolar Stem Cells. *Cell*, **2020**, 180, 107-121.e17	56.2	93
271	Advances in electrokinetics and their applications in micro/nano fluidics. *Microfluidics and Nanofluidics*, **2012**, 13, 179-203	2.8	91
270	Two-fluid electroosmotic flow in microchannels. *Journal of Colloid and Interface Science*, **2005**, 284, 306-14	3.3	89
269	Continuous sorting and separation of microparticles by size using AC dielectrophoresis in a PDMS microfluidic device with 3-D conducting PDMS composite electrodes. *Electrophoresis*, **2010**, 31, 2622-31	3.6	82
268	Convective heat transfer of nanofluids in a concentric annulus. *International Journal of Thermal Sciences*, **2013**, 71, 249-257	4.1	80
267	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	4.9	80
266	Exact solutions for electro-osmotic flow of viscoelastic fluids in rectangular micro-channels. *Applied Mathematics and Computation*, **2009**, 211, 502-509	2.7	78
265	On the Anomalous Convective Heat Transfer Enhancement in Nanofluids: A Theoretical Answer to the Nanofluids Controversy. *Journal of Heat Transfer*, **2013**, 135,	1.8	75
264	Dielectrophoretic manipulation of particles in a modified microfluidic H filter with multi-insulating blocks. *Biomicrofluidics*, **2008**, 2, 34105	3.2	74
263	Assessment of Joule heating and its effects on electroosmotic flow and electrophoretic transport of solutes in microfluidic channels. *Electrophoresis*, **2006**, 27, 628-39	3.6	73
262	An exact solution for electroosmosis of non-Newtonian fluids in microchannels. *Journal of Non-Newtonian Fluid Mechanics*, **2011**, 166, 1076-1079	2.7	71
261	Freezing of sessile water droplet for various contact angles. *International Journal of Thermal Sciences*, **2016**, 101, 59-67	4.1	69

260	Sample concentration in a microfluidic paper-based analytical device using ion concentration polarization. *Sensors and Actuators B: Chemical*, **2016**, 222, 735-740	8.5	68
259	Mixing enhancement in microfluidic channel with a constriction under periodic electro-osmotic flow. *Biomicrofluidics*, **2010**, 4, 14101	3.2	67
258	Acoustically induced bubbles in a microfluidic channel for mixing enhancement. *Microfluidics and Nanofluidics*, **2009**, 6, 847-852	2.8	67
257	Nonlinear Smoluchowski velocity for electroosmosis of Power-law fluids over a surface with arbitrary zeta potentials. *Electrophoresis*, **2010**, 31, 973-9	3.6	67
256	Numerical analysis of the thermal effect on electroosmotic flow and electrokinetic mass transport in microchannels. *Analytica Chimica Acta*, **2004**, 507, 27-37	6.6	63
255	Determination of the effective thermal diffusivity of nanofluids by the double hot-wire technique. *Journal Physics D: Applied Physics*, **2006**, 39, 5316-5322	3	61
254	Capillary filling in closed end nanochannels. *Langmuir*, **2010**, 26, 13251-5	4	60
253	Transient analysis of electroosmotic flow in a slit microchannel. *Journal of Colloid and Interface Science*, **2002**, 248, 524-7	9.3	60
252	Solidification of fluid saturated in open-cell metallic foams with graded morphologies. *International Journal of Heat and Mass Transfer*, **2016**, 98, 60-69	4.9	57
251	On-demand droplet release for droplet-based microfluidic system. *Lab on A Chip*, **2010**, 10, 559-62	7.2	55
250	Characterization of a zeolite-templated carbon for H2 storage application. *Microporous and Mesoporous Materials*, **2009**, 118, 503-507	5.3	55
249	Mixing enhancement for high viscous fluids in a microfluidic chamber. *Lab on A Chip*, **2011**, 11, 2081-7	7.2	53
248	Determination of the diffusivity of point defects in passive films on carbon steel. *Thin Solid Films*, **2002**, 416, 169-173	2.2	52
247	Transient two-liquid electroosmotic flow with electric charges at the interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 266, 117-128	5.1	49
246	Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. *Microfluidics and Nanofluidics*, **2006**, 3, 101-108	2.8	48
245	Electrokinetically driven concentration of particles and cells by dielectrophoresis with DC-offset AC electric field. *Microfluidics and Nanofluidics*, **2012**, 12, 723-733	2.8	47
244	Electro-osmotic mobility of non-Newtonian fluids. *Biomicrofluidics*, **2011**, 5, 14110	3.2	46
243	Retarded condensate freezing propagation on superhydrophobic surfaces patterned with micropillars. *Applied Physics Letters*, **2016**, 108, 061605	3.4	46

242	Comparison of direct numerical simulation with volume-averaged method on composite phase change materials for thermal energy storage. *Applied Energy*, **2018**, 229, 700-714	10.7	45
241	Dynamic cell fractionation and transportation using moving dielectrophoresis. *Analytical Chemistry*, **2007**, 79, 6975-87	7.8	45
240	Electroosmotic flows of non-Newtonian power-law fluids in a cylindrical microchannel. *Electrophoresis*, **2013**, 34, 662-7	3.6	43
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238	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	5.8	42
237	Valveless micropump with acoustically featured pumping chamber. *Microfluidics and Nanofluidics*, **2010**, 8, 549-555	2.8	42
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235	Developing pressure-driven liquid flow in microchannels under the electrokinetic effect. *International Journal of Engineering Science*, **2004**, 42, 609-622	5.7	40
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233	Simulation of droplet formation and coalescence using lattice Boltzmann-based single-phase model. *Journal of Colloid and Interface Science*, **2007**, 311, 609-18	9.3	39
232	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	9.3	38
231	Electrical double layer potential distribution in a rectangular microchannel. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1998**, 135, 109-116	5.1	37
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201	Three dimensional features of convective heat transfer in droplet-based microchannel heat sinks. *International Journal of Heat and Mass Transfer*, **2015**, 86, 455-464	4.9	27
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197	A method for simultaneously determining the zeta potentials of the channel surface and the tracer particles using microparticle image velocimetry technique. *Electrophoresis*, **2006**, 27, 620-7	3.6	26
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195	Efficient on-demand compound droplet formation: from microfluidics to microdroplets as miniaturized laboratories. *Small*, **2009**, 5, 1149-52	11	25
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177	Numerical modeling of Joule heating-induced temperature gradient focusing in microfluidic channels. *Electrophoresis*, **2008**, 29, 1006-12	3.6	19
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173	Dynamic Electroosmotic Flows of Power-Law Fluids in Rectangular Microchannels. *Micromachines*, **2017**, 8, 34	3.3	18
172	Analysis of induced-charge electro-osmotic flow in a microchannel embedded with polarizable dielectric blocks. *Physical Review E*, **2009**, 80, 046312	2.4	18
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169	Electroosmotic flow in irregular shape microchannels. *International Journal of Engineering Science*, **2005**, 43, 1450-1463	5.7	18
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166	ac Electrokinetic phenomena over semiconductive surfaces: effective electric boundary conditions and their applications. *Physical Review E*, **2011**, 83, 066304	2.4	17
165	Numerical simulation of Joule heating effect on sample band transport in capillary electrophoresis. *Analytica Chimica Acta*, **2006**, 561, 138-149	6.6	17
164	Rapid pre-concentration of Escherichia coli in a microfluidic paper-based device using ion concentration polarization. *Electrophoresis*, **2020**, 41, 867-874	3.6	17
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162	Translational thermophoresis and rotational movement of peanut-like colloids under temperature gradient. *Microfluidics and Nanofluidics*, **2015**, 19, 805-811	2.8	16
161	Visco-elastic traffic flow model. *Journal of Advanced Transportation*, **2013**, 47, 635-649	1.9	16
160	Capillary Filling in Nanochannels—Modeling, Fabrication, and Experiments. *Heat Transfer Engineering*, **2011**, 32, 624-635	1.7	16
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137	Continuous separation of multiple particles by negative and positive dielectrophoresis in a modified H-filter. *Electrophoresis*, **2014**, 35, 714-20	3.6	12
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135	Static stretch induces active morphological remodeling and functional impairment of alveolar epithelial cells. *Respiration*, **2009**, 78, 301-11	3.7	12

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