

Arman Sadeghi

List of Publications by Year in descending order

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54
papers

1,198
citations

361413

20
h-index

414414

32
g-index

54
all docs

54
docs citations

54
times ranked

512
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamic dispersion by electroosmotic flow in soft microchannels: Consideration of different properties for electrolyte and polyelectrolyte layer. <i>Chemical Engineering Science</i> , 2021, 229, 116058.	3.8	18
2	Tripling the reverse electrodialysis power generation in conical nanochannels utilizing soft surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2211-2221.	2.8	35
3	A new method for analytical modeling of microfluidic extraction. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	2.2	3
4	Augmentation of the reverse electrodialysis power generation in soft nanochannels via tailoring the soft layer properties. <i>Electrochimica Acta</i> , 2021, 395, 139221.	5.2	40
5	Electrophoresis of spherical soft particles in electrolyte solutions: A review. <i>Electrophoresis</i> , 2020, 41, 81-103.	2.4	28
6	Covering the conical nanochannels with dense polyelectrolyte layers significantly improves the ionic current rectification. <i>Analytica Chimica Acta</i> , 2020, 1122, 48-60.	5.4	55
7	Electroosmotic flow and heat transfer in a heterogeneous circular microchannel. <i>Applied Mathematical Modelling</i> , 2020, 87, 640-654.	4.2	20
8	Unsteady solute dispersion by electrokinetic flow in a polyelectrolyte layer-grafted rectangular microchannel with wall absorption. <i>Journal of Fluid Mechanics</i> , 2020, 887, .	3.4	21
9	Liquid Flow Forced Convection in Rectangular Microchannels With Nonuniform Heating: Toward Analytical Modeling of Hotspots. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	4
10	Effect of ion partitioning on electrophoresis of soft particles. <i>Colloid and Polymer Science</i> , 2019, 297, 191-200.	2.1	20
11	Significant alteration in DNA electrophoretic translocation velocity through soft nanopores by ion partitioning. <i>Analytica Chimica Acta</i> , 2019, 1080, 66-74.	5.4	13
12	Graetz problem for combined pressure-driven and electroosmotic flow in microchannels with distributed wall heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 150-160.	4.8	22
13	Analytical solutions for mass transport in hydrodynamic focusing by considering different diffusivities for sample and sheath flows. <i>Journal of Fluid Mechanics</i> , 2019, 862, 517-551.	3.4	11
14	Electroosmotic flow in soft microchannels at high grafting densities. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	30
15	Theoretical modeling of electroosmotic flow in soft microchannels: A variational approach applied to the rectangular geometry. <i>Physics of Fluids</i> , 2018, 30, .	4.0	30
16	Solute dispersion by electroosmotic flow through soft microchannels. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3585-3600.	7.8	30
17	Hydrodynamic dispersion by electroosmotic flow of viscoelastic fluids within a slit microchannel. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	13
18	Effect of ion partitioning on electrostatics of soft particles with volumetrically charged inner core coated with pH-regulated polyelectrolyte layer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 129-135.	5.0	22

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19	Mass transport characteristics of diffusioosmosis: Potential applications for liquid phase transportation and separation. <i>Physics of Fluids</i> , 2017, 29, .	4.0	20
20	Electroosmotic flow and ionic conductance in a pH-regulated rectangular nanochannel. <i>Physics of Fluids</i> , 2017, 29, .	4.0	19
21	Effect of ion partitioning on the electrostatics of soft particles with a volumetrically charged core. <i>Electrochemistry Communications</i> , 2017, 84, 19-23.	4.7	39
22	H2 forced convection in rectangular microchannels under a mixed electroosmotic and pressure-driven flow. <i>International Journal of Thermal Sciences</i> , 2017, 122, 162-171.	4.9	12
23	Reduction of production rate in Y-shaped microreactors in the presence of viscoelasticity. <i>Analytica Chimica Acta</i> , 2017, 990, 121-134.	5.4	2
24	Enhancement of surface adsorption-desorption rates in microarrays invoking surface charge heterogeneity. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 956-964.	7.8	8
25	Geometry effect on electrokinetic flow and ionic conductance in pH-regulated nanochannels. <i>Physics of Fluids</i> , 2017, 29, .	4.0	14
26	Analytical solutions for species transport in a Tâ€ sensor at low peclet numbers. <i>AIChE Journal</i> , 2016, 62, 4119-4130.	3.6	13
27	Diffusioosmotic flow in rectangular microchannels. <i>Electrophoresis</i> , 2016, 37, 809-817.	2.4	23
28	Bounded amplification of diffusioosmosis utilizing hydrophobicity. <i>RSC Advances</i> , 2016, 6, 49517-49526.	3.6	6
29	Electroosmotic Flow in Hydrophobic Microchannels of General Cross Section. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	1.5	25
30	Analytical solutions for thermo-fluidic transport in electroosmotic flow through rough microtubes. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 244-251.	4.8	45
31	Depletion of crossâ€ stream diffusion in the presence of viscoelasticity. <i>AIChE Journal</i> , 2015, 61, 4533-4541.	3.6	9
32	Shearâ€rateâ€dependent rheology effects on mass transport and surface reactions in biomicrofluidic devices. <i>AIChE Journal</i> , 2015, 61, 1912-1924.	3.6	72
33	A depthwise averaging solution for cross-stream diffusion in a Y-micromixer by considering thick electrical double layers and nonlinear rheology. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1297-1308.	2.2	13
34	Drastic alteration of diffusioosmosis due to steric effects. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29193-29200.	2.8	25
35	Electrokinetic mixing at high zeta potentials: Ionic size effects on cross stream diffusion. <i>Journal of Colloid and Interface Science</i> , 2015, 442, 8-14.	9.4	35
36	Gaseous Slip-Flow Mixed Convection Through Ordered Microcylinders. <i>Journal of Thermophysics and Heat Transfer</i> , 2014, 28, 105-117.	1.6	3

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37	Gaseous Slip Flow Mixed Convection in Vertical Microducts With Constant Axial Energy Input. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	8
38	Pressure effects on electroosmotic flow of power-law fluids in rectangular microchannels. <i>Theoretical and Computational Fluid Dynamics</i> , 2014, 28, 409-426.	2.2	12
39	Gaseous Slip Flow Forced Convection in Microducts of Arbitrary but Constant Cross Section. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014, 18, 354-372.	2.6	9
40	Gaseous Slip Flow Mixed Convection in Vertical Microducts of Constant but Arbitrary Geometry. <i>Journal of Thermophysics and Heat Transfer</i> , 2014, 28, 771-784.	1.6	10
41	Numerical modeling of surface reaction kinetics in electrokinetically actuated microfluidic devices. <i>Analytica Chimica Acta</i> , 2014, 838, 64-75.	5.4	70
42	Rheology effects on cross-stream diffusion in a Y-shaped micromixer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 456, 296-306.	4.7	24
43	Buoyancy effects on gaseous slip flow in a vertical rectangular microchannel. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 207-224.	2.2	6
44	Electrophoretic velocity of spherical particles in Quemada fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 225-230.	4.7	0
45	Continuous size-based focusing and bifurcating microparticle streams using a negative dielectrophoretic system. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 265-276.	2.2	8
46	Gaseous slip flow forced convection through ordered microcylinders. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 73-85.	2.2	9
47	Variational formulation on Joule heating in combined electroosmotic and pressure driven microflows. <i>International Journal of Heat and Mass Transfer</i> , 2013, 61, 254-265.	4.8	20
48	Joule Heating Effects In Electrokinetically Driven Flow Through Rectangular Microchannels: An Analytical Approach. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2013, 17, 173-193.	2.6	21
49	Graetz Problem Extended to Mixed Electroosmotically and Pressure Driven Flow. <i>Journal of Thermophysics and Heat Transfer</i> , 2012, 26, 123-133.	1.6	20
50	Hydrodynamic and Thermal Characteristics of Combined Electroosmotic and Pressure Driven Flow in a Microannulus. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	11
51	Combined influences of viscous dissipation, non-uniform Joule heating and variable thermophysical properties on convective heat transfer in microtubes. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 762-772.	4.8	39
52	Mixed Electroosmotically and Pressure-Driven Flow with Temperature-Dependent Properties. <i>Journal of Thermophysics and Heat Transfer</i> , 2011, 25, 432-442.	1.6	33
53	Viscous dissipation effects on thermal transport characteristics of combined pressure and electroosmotically driven flow in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3782-3791.	4.8	85
54	Second Law Analysis of Slip Flow Forced Convection Through a Parallel Plate Microchannel. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2010, 14, 209-228.	2.6	15