Seyed Nezameddin Ashrafizadeh

List of Publications by Year
in descending order

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22 papers	535 citations	516710 16 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	164 citing authors

#	Article	IF	Citations
1	Impact of asymmetry soft layers and ion partitioning on ionic current rectification in bipolar nanochannels. Journal of Molecular Liquids, 2022, 347, 118324.	4.9	25
2	Ionic-size dependent electroosmotic flow in ion-selective biomimetic nanochannels. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112545.	5.0	13
3	Electrified lab on disc systems: A comprehensive review on electrokinetic applications. Biosensors and Bioelectronics, 2022, 214, 114381.	10.1	10
4	Hydrodynamic dispersion by electroosmotic flow in soft microchannels: Consideration of different properties for electrolyte and polyelectrolyte layer. Chemical Engineering Science, 2021, 229, 116058.	3.8	18
5	Tripling the reverse electrodialysis power generation in conical nanochannels utilizing soft surfaces. Physical Chemistry Chemical Physics, 2021, 23, 2211-2221.	2.8	35
6	DNA translocation through pH-dependent soft nanopores. European Biophysics Journal, 2021, 50, 905-914.	2.2	3
7	Augmentation of the reverse electrodialysis power generation in soft nanochannels via tailoring the soft layer properties. Electrochimica Acta, 2021, 395, 139221.	5.2	40
8	Impacts of the shape of soft nanochannels on their ion selectivity and current rectification. Electrochimica Acta, 2021, 399, 139376.	5.2	41
9	Impacts of the temperature-dependent properties on ion transport behavior in soft nanochannels. International Communications in Heat and Mass Transfer, 2021, 129, 105728.	5.6	26
10	A variational approach applied to reduce fouling with the electroosmotic flow in porous-wall microchannels. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	22
11	Electrophoresis of spherical soft particles in electrolyte solutions: A review. Electrophoresis, 2020, 41, 81-103.	2.4	28
12	Covering the conical nanochannels with dense polyelectrolyte layers significantly improves the ionic current rectification. Analytica Chimica Acta, 2020, 1122, 48-60.	5.4	55
13	Effect of ion partitioning on electrophoresis of soft particles. Colloid and Polymer Science, 2019, 297, 191-200.	2.1	20
14	Enhanced electrokinetic energy harvesting from soft nanochannels by the inclusion of ionic size. Journal Physics D: Applied Physics, 2019, 52, 155502.	2.8	14
15	Significant alteration in DNA electrophoretic translocation velocity through soft nanopores by ion partitioning. Analytica Chimica Acta, 2019, 1080, 66-74.	5.4	13
16	Solute dispersion by electroosmotic flow through soft microchannels. Sensors and Actuators B: Chemical, 2018, 255, 3585-3600.	7.8	30
17	Hydrodynamic dispersion by electroosmotic flow of viscoelastic fluids within a slit microchannel. Microfluidics and Nanofluidics, 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. Colloids and Surfaces B: Biointerfaces, 2018, 170, 129-135.	5.0	22

#	Article	IF	Citations
19	Mass transport characteristics of diffusioosmosis: Potential applications for liquid phase transportation and separation. Physics of Fluids, 2017, 29, .	4.0	20
20	Effect of ion partitioning on the electrostatics of soft particles with a volumetrically charged core. Electrochemistry Communications, 2017, 84, 19-23.	4.7	39
21	Diffusioosmotic flow in rectangular microchannels. Electrophoresis, 2016, 37, 809-817.	2.4	23
22	Drastic alteration of diffusioosmosis due to steric effects. Physical Chemistry Chemical Physics, 2015, 17, 29193-29200.	2.8	25