Seyed Nezameddin Ashrafizadeh

List of Publications by Year
in descending order

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	Covering the conical nanochannels with dense polyelectrolyte layers significantly improves the ionic current rectification. Analytica Chimica Acta, 2020, 1122, 48-60.	5.4	55
2	Impacts of the shape of soft nanochannels on their ion selectivity and current rectification. Electrochimica Acta, 2021, 399, 139376.	5.2	41
3	Augmentation of the reverse electrodialysis power generation in soft nanochannels via tailoring the soft layer properties. Electrochimica Acta, 2021, 395, 139221.	5.2	40
4	Effect of ion partitioning on the electrostatics of soft particles with a volumetrically charged core. Electrochemistry Communications, 2017, 84, 19-23.	4.7	39
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	Solute dispersion by electroosmotic flow through soft microchannels. Sensors and Actuators B: Chemical, 2018, 255, 3585-3600.	7.8	30
7	Electrophoresis of spherical soft particles in electrolyte solutions: A review. Electrophoresis, 2020, 41, 81-103.	2.4	28
8	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
9	Drastic alteration of diffusioosmosis due to steric effects. Physical Chemistry Chemical Physics, 2015, 17, 29193-29200.	2.8	25
10	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
11	Diffusioosmotic flow in rectangular microchannels. Electrophoresis, 2016, 37, 809-817.	2.4	23
12	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
13	A variational approach applied to reduce fouling with the electroosmotic flow in porous-wall microchannels. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	22
14	Mass transport characteristics of diffusioosmosis: Potential applications for liquid phase transportation and separation. Physics of Fluids, 2017, 29, .	4.0	20
15	Effect of ion partitioning on electrophoresis of soft particles. Colloid and Polymer Science, 2019, 297, 191-200.	2.1	20
16	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
17	Enhanced electrokinetic energy harvesting from soft nanochannels by the inclusion of ionic size. Journal Physics D: Applied Physics, 2019, 52, 155502.	2.8	14
18	Hydrodynamic dispersion by electroosmotic flow of viscoelastic fluids within a slit microchannel. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	13

#	Article	IF	Citations
19	Significant alteration in DNA electrophoretic translocation velocity through soft nanopores by ion partitioning. Analytica Chimica Acta, 2019, 1080, 66-74.	5.4	13
20	Ionic-size dependent electroosmotic flow in ion-selective biomimetic nanochannels. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112545.	5.0	13
21	Electrified lab on disc systems: A comprehensive review on electrokinetic applications. Biosensors and Bioelectronics, 2022, 214, 114381.	10.1	10
22	DNA translocation through pH-dependent soft nanopores. European Biophysics Journal, 2021, 50, 905-914.	2.2	3