Van-Sang Pham

List of Publications by Year
in descending order

11 papers	548 citations	1040056 9 h-index	1125743 13 g-index
14 all docs	14 docs citations	14 times ranked	420 citing authors

#	ARTICLE	IF	CITATIONS
1	Ions transport in electromembrane desalination: A numerical modeling for the return flow ion-concentration-polarization desalination system. Chemical Engineering Research and Design, 2022, 184, 366-377.	5.6	6
2	A numerical modeling study on inertial focusing of microparticle in spiral microchannel. AIP Advances, 2020, 10, .	1.3	12
3	Microfluidic Electrokinetic Preconcentration Chips: Enhancing the detection of nucleic acids and exosomes. IEEE Nanotechnology Magazine, 2020, 14, 18-34.	1.3	9
4	An OpenFOAM solver for multiphase and turbulent flow. Physics of Fluids, 2020, 32, .	4.0	36
5	Return flow ion concentration polarization desalination: A new way to enhance electromembrane desalination. Water Research, 2019, 159, 501-510.	11.3	24
6	Energy efficiency enhancement of electromembrane desalination systems by local flow redistribution optimized for the asymmetry of cation/anion diffusivity. Journal of Membrane Science, 2017, 524, 280-287.	8.2	33
7	Sheltering the perturbed vortical layer of electroconvection under shear flow. Journal of Fluid Mechanics, 2017, 813, 799-823.	3.4	27
8	Enhanced Salt Removal by Unipolar Ion Conduction in Ion Concentration Polarization Desalination. Scientific Reports, 2016, 6, 25349.	3.3	65
9	Purification of High Salinity Brine by Multi-Stage Ion Concentration Polarization Desalination. Scientific Reports, 2016, 6, 31850.	3.3	67
10	Shear Flow of an Electrically Charged Fluid by Ion Concentration Polarization: Scaling Laws for Electroconvective Vortices. Physical Review Letters, 2013, 110, 114501.	7.8	134
11	Direct numerical simulation of electroconvective instability and hysteretic current-voltage response of a permselective membrane. Physical Review E, 2012, 86, 046310.	2.1	132