Dolfred Vijay Fernandes

List of Publications by Year in Descending Order

10 papers	87 citations	6 h-index	9 g-index
14 ext. papers	111 ext. citations	1.8 avg, IF	2.24 L-index

#	Paper	IF	Citations
10	Numerical simulation and design optimization of an electrohydrodynamic pump for dielectric liquids. *International Journal of Heat and Fluid Flow*, **2016**, 57, 1-10	2.4	15
9	Electrohydrodynamic flow of dielectric liquid around a wire electrode - effect of truncation of onsager function. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2014**, 21, 194-200	2.3	8
8	Electrohydrodynamic flow of dielectric liquid around a wire electrode - effect of truncation of onsager function. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2014**, 21, 194-200	2.3	4
7	Electrohydrodynamic instability of dielectric liquid between concentric circular cylinders subjected to unipolar charge injection. *Journal of Mechanical Science and Technology*, **2013**, 27, 461-467	1.6	14
6	Computation of the electrostatic force on a cylindrical colloidal particle: Comparison of the Poisson-Nernst-Planck model and the Poisson-Boltzmann model. *Journal of the Korean Physical Society*, **2012**, 60, 1102-1113	0.6	1
5	Numerical simulation of the electro-convective onset and complex flows of dielectric liquid in an annulus. *Journal of Mechanical Science and Technology*, **2012**, 26, 3785-3793	1.6	16
4	Numerical simulation of the electrophoretic transport of a biopolymer through a synthetic nano-pore. *Molecular Simulation*, **2011**, 37, 466-477	2	8
3	Enhancement of mixing within a micro cavity by use of transient induced-charge electro-osmotic flow around micro electrodes. *Journal of Mechanical Science and Technology*, **2011**, 25, 1495-1499	1.6	5
2	Numerical and theoretical study on the mechanism of biopolymer translocation process through a nano-pore. *Journal of Chemical Physics*, **2011**, 135, 055103	3.9	13
1	Numerical estimation of ion transport and electroosmotic flow around a pair of cylindrical electrodes in a microchannel using immersed boundary method. *Journal of Mechanical Science and Technology*, **2010**, 24, 2467-2477	1.6	3