Mohammad Mirzadeh

List of Publications by Year
in descending order

16 papers	416 citations	933447 10 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	473 citing authors

#	Article	IF	Citations
1	Theory of freezing point depression in charged porous media. Physical Review E, 2021, 104, 045102.	2.1	4
2	Dielectric Breakdown by Electric-field Induced Phase Separation. Journal of the Electrochemical Society, 2020, 167, 113504.	2.9	9
3	Physics of Electrostatic Projection Revealed by High-Speed Video Imaging. Physical Review Applied, 2020, 13, .	3.8	3
4	Vortices of electro-osmotic flow in heterogeneous porous media. Physical Review Fluids, 2020, 5, .	2.5	10
5	Freezing point depression and freeze-thaw damage by nanofluidic salt trapping. Physical Review Fluids, 2020, 5, .	2.5	15
6	Active control of viscous fingering using electric fields. Nature Communications, 2019, 10, 4002.	12.8	40
7	Capillary Stress and Structural Relaxation in Moist Granular Materials. Langmuir, 2019, 35, 4397-4402.	3.5	17
8	Electrokinetic Control of Viscous Fingering. Physical Review Letters, 2017, 119, 174501.	7.8	37
9	Parallel level-set methods on adaptive tree-based grids. Journal of Computational Physics, 2016, 322, 345-364.	3.8	57
10	A conservative discretization of the Poisson–Nernst–Planck equations on adaptive Cartesian grids. Journal of Computational Physics, 2014, 274, 633-653.	3.8	36
11	Enhanced Charging Kinetics of Porous Electrodes: Surface Conduction as a Short-Circuit Mechanism. Physical Review Letters, 2014, 113, 097701.	7.8	63
12	Minimum energy desynchronizing control for coupled neurons. Journal of Computational Neuroscience, 2013, 34, 259-271.	1.0	59
13	An Adaptive, Finite Difference Solver for the Nonlinear Poisson-Boltzmann Equation with Applications to Biomolecular Computations. Communications in Computational Physics, 2013, 13, 150-173.	1.7	26
14	A second-order discretization of the nonlinear Poisson–Boltzmann equation over irregular geometries using non-graded adaptive Cartesian grids. Journal of Computational Physics, 2011, 230, 2125-2140.	3.8	35
15	CREEPING FLOW OF VISCOELASTIC FLUIDS THROUGH TAPERED SLIT DIES: AN ANALYTICAL SOLUTION. Chemical Engineering Communications, 2009, 197, 466-480.	2.6	2
16	On the Role Played by the Extensional Behavior of Giesekus Fluids in Plane Stagnation Flow. Nihon Reoroji Gakkaishi, 2009, 37, 31-38.	1.0	3