

Mohammad Mirzadeh

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

416
citations

933447

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940533

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all docs

16
docs citations

16
times ranked

473
citing authors

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