

Dimitrios Fraggedakis

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,387
citations

471509

17
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

2343
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven prediction of battery cycle life before capacity degradation. <i>Nature Energy</i> , 2019, 4, 383-391.	39.5	1,237
2	Revealing electrolyte oxidation <i>via</i> carbonate dehydrogenation on Ni-based oxides in Li-ion batteries by <i>in situ</i> Fourier transform infrared spectroscopy. <i>Energy and Environmental Science</i> , 2020, 13, 183-199.	30.8	202
3	Interplay of Lithium Intercalation and Plating on a Single Graphite Particle. <i>Joule</i> , 2021, 5, 393-414.	24.0	168
4	Fluid-enhanced surface diffusion controls intraparticle phase transformations. <i>Nature Materials</i> , 2018, 17, 915-922.	27.5	104
5	Yielding the yield-stress analysis: a study focused on the effects of elasticity on the settling of a single spherical particle in simple yield-stress fluids. <i>Soft Matter</i> , 2016, 12, 5378-5401.	2.7	91
6	Electrochemical ion insertion from the atomic to the device scale. <i>Nature Reviews Materials</i> , 2021, 6, 847-867.	48.7	84
7	On the velocity discontinuity at a critical volume of a bubble rising in a viscoelastic fluid. <i>Journal of Fluid Mechanics</i> , 2016, 789, 310-346.	3.4	75
8	Theory of coupled ion-electron transfer kinetics. <i>Electrochimica Acta</i> , 2021, 367, 137432.	5.2	64
9	Yielding the yield stress analysis: A thorough comparison of recently proposed elasto-visco-plastic (EVP) fluid models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 236, 104-122.	2.4	49
10	Lithium-Battery Anode Gains Additional Functionality for Neuromorphic Computing through Metal-Insulator Phase Separation. <i>Advanced Materials</i> , 2020, 32, e1907465.	21.0	43
11	A scaling law to determine phase morphologies during ion intercalation. <i>Energy and Environmental Science</i> , 2020, 13, 2142-2152.	30.8	43
12	Modeling the Metal-Insulator Phase Transition in Li_xCoO_2 for Energy and Information Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1902821.	14.9	40
13	Cation-Dependent Interfacial Structures and Kinetics for Outer-Sphere Electron-Transfer Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4397-4411.	3.1	38
14	Interplay of phase boundary anisotropy and electro-auto-catalytic surface reactions on the lithium intercalation dynamics in Li_xX_z plateletlike nanoparticles. <i>Physical Review Materials</i> , 2018, 2, .	2.4	28
15	Correlative image learning of chemo-mechanics in phase-transforming solids. <i>Nature Materials</i> , 2022, 21, 547-554.	27.5	27
16	Tuning the stability of electrochemical interfaces by electron transfer reactions. <i>Journal of Chemical Physics</i> , 2020, 152, 184703.	3.0	19
17	Discretization of three-dimensional free surface flows and moving boundary problems via elliptic grid methods based on variational principles. <i>Journal of Computational Physics</i> , 2017, 344, 127-150.	3.8	18
18	Yielding the yield stress analysis: A thorough comparison of recently proposed elasto-visco-plastic (EVP) fluid models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 238, 170-188.	2.4	16

#	ARTICLE	IF	CITATIONS
19	Flow of two immiscible fluids in a periodically constricted tube: Transitions to stratified, segmented, churn, spray, or segregated flow. <i>Physics of Fluids</i> , 2015, 27, .	4.0	14
20	Vortices of electro-osmotic flow in heterogeneous porous media. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	10
21	Dielectric Breakdown by Electric-field Induced Phase Separation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 113504.	2.9	9
22	The first open channel for yield-stress fluids in porous media. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	4
23	Theory of freezing point depression in charged porous media. <i>Physical Review E</i> , 2021, 104, 045102.	2.1	4
24	Theory of Coupled Ion-Electron Transfer Kinetics in Ion Intercalation Materials. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 183-183.	0.0	0
25	Electric Field-Induced Metal-Insulator Phase Separation in Lithium Titanates: Tuning Symmetry By Lithiation. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2061-2061.	0.0	0