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List of Publications by Year
in descending order

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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	Correlative image learning of chemo-mechanics in phase-transforming solids. Nature Materials, 2022, 21, 547-554.	27.5	27
2	Theory of coupled ion-electron transfer kinetics. Electrochimica Acta, 2021, 367, 137432.	5.2	64
3	The first open channel for yield-stress fluids in porous media. Journal of Fluid Mechanics, 2021, 911, .	3.4	4
4	Cation-Dependent Interfacial Structures and Kinetics for Outer-Sphere Electron-Transfer Reactions. Journal of Physical Chemistry C, 2021, 125, 4397-4411.	3.1	38
5	Interplay of Lithium Intercalation and Plating on a Single Graphite Particle. Joule, 2021, 5, 393-414.	24.0	168
6	Electrochemical ion insertion from the atomic to the device scale. Nature Reviews Materials, 2021, 6, 847-867.	48.7	84
7	Theory of freezing point depression in charged porous media. Physical Review E, 2021, 104, 045102.	2.1	4
8	Revealing electrolyte oxidation via carbonate dehydrogenation on Ni-based oxides in Li-ion batteries by in situ Fourier transform infrared spectroscopy. Energy and Environmental Science, 2020, 13, 183-199.	30.8	202
9	Dielectric Breakdown by Electric-field Induced Phase Separation. Journal of the Electrochemical Society, 2020, 167, 113504.	2.9	9
10	Tuning the stability of electrochemical interfaces by electron transfer reactions. Journal of Chemical Physics, 2020, 152, 184703.	3.0	19
11	Lithiumâ€Battery Anode Gains Additional Functionality for Neuromorphic Computing through Metalâ€“Insulator Phase Separation. Advanced Materials, 2020, 32, e1907465.	21.0	43
12	A scaling law to determine phase morphologies during ion intercalation. Energy and Environmental Science, 2020, 13, 2142-2152.	30.8	43
13	Vortices of electro-osmotic flow in heterogeneous porous media. Physical Review Fluids, 2020, 5, .	2.5	10
14	Theory of Coupled Ion-Electron Transfer Kinetics in Ion Intercalation Materials. ECS Meeting Abstracts, 2020, MA2020-01, 183-183.	0.0	0
15	Electric Field-Induced Metal-Insulator Phase Separation in Lithium Titanates: Tuning Symmetry By Lithiation. ECS Meeting Abstracts, 2020, MA2020-02, 2061-2061.	0.0	0
16	Modeling the Metalâ€“Insulator Phase Transition in Li_xCoO₂ for Energy and Information Storage. Advanced Functional Materials, 2019, 29, 1902821.	14.9	40
17	Data-driven prediction of battery cycle life before capacity degradation. Nature Energy, 2019, 4, 383-391.	39.5	1,237
18	Fluid-enhanced surface diffusion controls intraparticle phase transformations. Nature Materials, 2018, 17, 915-922.	27.5	104

#	Article	IF	Citations
19	Interplay of phase boundary anisotropy and electro-auto-catalytic surface reactions on the lithium intercalation dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mi>X</mml:mi></mml:ms plateletlike nanoparticles. Physical Review Materials, 2018, 2, .	2.4	28
20	Discretization of three-dimensional free surface flows and moving boundary problems via elliptic grid methods based on variational principles. Journal of Computational Physics, 2017, 344, 127-150.	3.8	18
21	Yielding the yield stress analysis: A thorough comparison of recently proposed elasto-visco-plastic (EVP) fluid models. Journal of Non-Newtonian Fluid Mechanics, 2016, 238, 170-188.	2.4	16
22	On the velocity discontinuity at a critical volume of a bubble rising in a viscoelastic fluid. Journal of Fluid Mechanics, 2016, 789, 310-346.	3.4	75
23	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. Soft Matter, 2016, 12, 5378-5401.	2.7	91
24	Yielding the yield stress analysis: A thorough comparison of recently proposed elasto-visco-plastic (EVP) fluid models. Journal of Non-Newtonian Fluid Mechanics, 2016, 236, 104-122.	2.4	49
25	Flow of two immiscible fluids in a periodically constricted tube: Transitions to stratified, segmented, churn, spray, or segregated flow. Physics of Fluids, 2015, 27, .	4.0	14