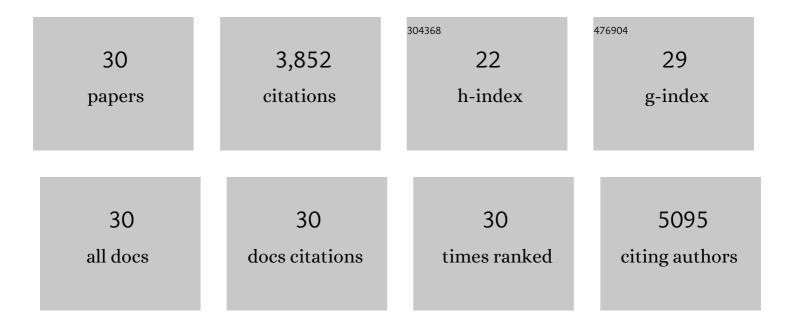
Feifei Fan

List of Publications by Year in descending order

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FEIEEL EAN

#	Article	IF	CITATIONS
1	Effect of lattice defects on the plastic Poisson's ratio of nanoporous gold. Scripta Materialia, 2020, 185, 175-180.	2.6	2
2	Deformation and instability of three-dimensional graphene honeycombs under in-plane compression: Atomistic simulations. Extreme Mechanics Letters, 2020, 39, 100861.	2.0	10
3	Stress generation during anisotropic lithiation in silicon nanopillar electrodes: A reactive force field study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125955.	0.9	11
4	In Situ TEM of Phosphorus-Dopant-Induced Nanopore Formation in Delithiated Silicon Nanowires. ACS Applied Materials & Interfaces, 2019, 11, 17313-17320.	4.0	11
5	High capacity 3D structured tin-based electroplated Li-ion battery anodes. Energy Storage Materials, 2019, 17, 151-156.	9.5	36
6	An atomistic perspective on lithiation-induced stress in silicon nanopillars. Scripta Materialia, 2018, 152, 74-78.	2.6	19
7	Cybersecurity for digital manufacturing. Journal of Manufacturing Systems, 2018, 48, 3-12.	7.6	83
8	Ultrahigh Malleability of the Lithiation-Induced Li _{<i>x</i>} Si Phase. ACS Applied Energy Materials, 2018, 1, 4211-4220.	2.5	16
9	Modeling of Lithiation in Silicon Electrodes. Springer Series in Materials Science, 2016, , 489-506.	0.4	0
10	Tuning the Outward to Inward Swelling in Lithiated Silicon Nanotubes via Surface Oxide Coating. Nano Letters, 2016, 16, 5815-5822.	4.5	45
11	In situ observation of shear-driven amorphization in silicon crystals. Nature Nanotechnology, 2016, 11, 866-871.	15.6	74
12	Lithium Sulfide Cathodes: A Hierarchical Particle-Shell Architecture for Long-Term Cycle Stability of Li2 S Cathodes (Adv. Mater. 37/2015). Advanced Materials, 2015, 27, 5578-5578.	11.1	1
13	A Hierarchical Particle–Shell Architecture for Longâ€∓erm Cycle Stability of Li ₂ S Cathodes. Advanced Materials, 2015, 27, 5579-5586.	11.1	111
14	Nanoscale Deformation Analysis With High-Resolution Transmission Electron Microscopy and Digital Image Correlation. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	1.1	26
15	Griffith Criterion for Brittle Fracture in Graphene. Nano Letters, 2015, 15, 1918-1924.	4.5	180
16	High damage tolerance of electrochemically lithiated silicon. Nature Communications, 2015, 6, 8417.	5.8	96
17	A Phase-Field Model Coupled with Large Elasto-Plastic Deformation: Application to Lithiated Silicon Electrodes. Journal of the Electrochemical Society, 2014, 161, F3164-F3172.	1.3	99
18	Structural Evolution and Pulverization of Tin Nanoparticles during Lithiation-Delithiation Cycling. Journal of the Electrochemical Society, 2014, 161, F3019-F3024.	1.3	96

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#	Article	IF	CITATIONS
19	A chemo-mechanical model of lithiation in silicon. Journal of the Mechanics and Physics of Solids, 2014, 70, 349-361.	2.3	181
20	Fracture toughness of graphene. Nature Communications, 2014, 5, 3782.	5.8	567
21	In Situ Transmission Electron Microscopy Study of Electrochemical Sodiation and Potassiation of Carbon Nanofibers. Nano Letters, 2014, 14, 3445-3452.	4.5	263
22	Mechanical properties of amorphous Li _{<i>x</i>} Si alloys: a reactive force field study. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 074002.	0.8	103
23	Stress generation during lithiation of high-capacity electrode particles in lithium ion batteries. Acta Materialia, 2013, 61, 4354-4364.	3.8	183
24	Tough Germanium Nanoparticles under Electrochemical Cycling. ACS Nano, 2013, 7, 3427-3433.	7.3	184
25	Self-Limiting Lithiation in Silicon Nanowires. ACS Nano, 2013, 7, 1495-1503.	7.3	212
26	Two-Phase Electrochemical Lithiation in Amorphous Silicon. Nano Letters, 2013, 13, 709-715.	4.5	377
27	Nanovoid Formation and Annihilation in Gallium Nanodroplets under Lithiation–Delithiation Cycling. Nano Letters, 2013, 13, 5212-5217.	4.5	96
28	In situ atomic-scale imaging of electrochemical lithiation in silicon. Nature Nanotechnology, 2012, 7, 749-756.	15.6	533
29	Orientation-Dependent Interfacial Mobility Governs the Anisotropic Swelling in Lithiated Silicon Nanowires. Nano Letters, 2012, 12, 1953-1958.	4.5	212
30	Modeling of fatigue crack growth of stainless steel 304L. Mechanics of Materials, 2008, 40, 961-973.	1.7	25