

Lei Fan

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

4,881
citations

257101

24
h-index

552369

26
g-index

27
all docs

27
docs citations

27
times ranked

6042
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress of the Solidâ€State Electrolytes for Highâ€Energy Metalâ€Based Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702657.	10.2	851
2	Direct electrosynthesis of pure aqueous H ₂ O ₂ solutions up to 20% by weight using a solid electrolyte. <i>Science</i> , 2019, 366, 226-231.	6.0	573
3	Strategies in catalysts and electrolyzer design for electrochemical CO ₂ reduction toward C ₂₊ products. <i>Science Advances</i> , 2020, 6, eaay3111.	4.7	477
4	Progress in electrolytes for rechargeable Li-based batteries and beyond. <i>Green Energy and Environment</i> , 2016, 1, 18-42.	4.7	400
5	Electrochemical CO ₂ reduction to high-concentration pure formic acid solutions in an all-solid-state reactor. <i>Nature Communications</i> , 2020, 11, 3633.	5.8	294
6	Regulating Li deposition at artificial solid electrolyte interphases. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3483-3492.	5.2	258
7	A â€œcation-anion regulationâ€ synergistic anode host for dendrite-free lithium metal batteries. <i>Science Advances</i> , 2018, 4, eaar4410.	4.7	241
8	Synergistic Dualâ€Additive Electrolyte Enables Practical Lithiumâ€Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14935-14941.	7.2	210
9	Stable Lithium Electrodeposition at Ultraâ€High Current Densities Enabled by 3D PMF/Li Composite Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1703360.	10.2	194
10	Colossal Granular Lithium Deposits Enabled by the Grainâ€Coarsening Effect for Highâ€Efficiency Lithium Metal Full Batteries. <i>Advanced Materials</i> , 2020, 32, e2001740.	11.1	157
11	1D SnO ₂ with Wireâ€inâ€Tube Architectures for Highly Selective Electrochemical Reduction of CO ₂ to C ₁ Products. <i>Advanced Functional Materials</i> , 2018, 28, 1706289.	7.8	153
12	Enabling Stable Lithium Metal Anode via 3D Inorganic Skeleton with Superlithiophilic Interphase. <i>Advanced Energy Materials</i> , 2018, 8, 1802350.	10.2	147
13	Hierarchical Co ₃ O ₄ Nanofiberâ€Carbon Sheet Skeleton with Superior Na/Liâ€Philic Property Enabling Highly Stable Alkali Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808847.	7.8	147
14	Tuning the LUMO Energy of an Organic Interphase to Stabilize Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019, 4, 644-650.	8.8	129
15	Rational design of robust-flexible protective layer for safe lithium metal battery. <i>Energy Storage Materials</i> , 2019, 18, 205-212.	9.5	116
16	Dynamic interphaseâ€mediated assembly for deep cycling metal batteries. <i>Science Advances</i> , 2021, 7, eabl3752.	4.7	81
17	Chlorideâ€Reinforced Carbon Nanofiber Host as Effective Polysulfide Traps in Lithiumâ€Sulfur Batteries. <i>Advanced Science</i> , 2016, 3, 1600175.	5.6	68
18	Engineering Wavyâ€Nanostructured Anode Interphases with Fast Ion Transfer Kinetics: Toward Practical Liâ€Metal Full Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003800.	7.8	63

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19	Proton sponge promotion of electrochemical CO ₂ reduction to multi-carbon products. <i>Joule</i> , 2022, 6, 205-220.	11.7	57
20	CO ₂ /carbonate-mediated electrochemical water oxidation to hydrogen peroxide. <i>Nature Communications</i> , 2022, 13, 2668.	5.8	44
21	Enhanced Lithium Storage Capability in Li-Ion Batteries Using Porous 3D Co ₃ O ₄ Nanofiber Anodes. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2046-2053.	1.8	42
22	Stable Li-Metal Deposition via a 3D Nanodiamond Matrix with Ultrahigh Young's Modulus. <i>Small Methods</i> , 2019, 3, 1900325.	4.6	40
23	High Efficacy and Polymeric Solid Electrolyte Interphase for Closely Packed Li Electrodeposition. <i>Advanced Science</i> , 2021, 8, 2003240.	5.6	39
24	Highly uniform Fe ₃ O ₄ nanoparticle-rGO composites as anode materials for high performance lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 54939-54946.	1.7	35
25	Synergistic Dual-Additive Electrolyte Enables Practical Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 15045-15051.	1.6	26
26	Ionic liquid-reinforced carbon nanofiber matrix enabled lean-electrolyte Li-S batteries via electrostatic attraction. <i>Energy Storage Materials</i> , 2020, 26, 378-384.	9.5	25
27	Constructing a Phosphating-Nitriding Interface for Practically Used Lithium Metal Anode. , 2020, 2, 1-8.		14