

# Lei Fan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3597305/publications.pdf>

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	Proton sponge promotion of electrochemical CO <sub>2</sub> reduction to multi-carbon products. <i>Joule</i> , 2022, 6, 205-220.	11.7	57
2	CO <sub>2</sub> /carbonate-mediated electrochemical water oxidation to hydrogen peroxide. <i>Nature Communications</i> , 2022, 13, 2668.	5.8	44
3	High Efficacy and Polymeric Solid Electrolyte Interphase for Closely Packed Li Electrodeposition. <i>Advanced Science</i> , 2021, 8, 2003240.	5.6	39
4	Dynamic interphase-mediated assembly for deep cycling metal batteries. <i>Science Advances</i> , 2021, 7, eabl3752.	4.7	81
5	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
6	Constructing a Phosphating-Nitriding Interface for Practically Used Lithium Metal Anode. , 2020, 2, 1-8.		14
7	Electrochemical CO <sub>2</sub> reduction to high-concentration pure formic acid solutions in an all-solid-state reactor. <i>Nature Communications</i> , 2020, 11, 3633.	5.8	294
8	Engineering Wavy Nanostructured Anode Interphases with Fast Ion Transfer Kinetics: Toward Practical Li-Metal Full Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003800.	7.8	63
9	Colossal Granular Lithium Deposits Enabled by the Grain Coarsening Effect for High Efficiency Lithium Metal Full Batteries. <i>Advanced Materials</i> , 2020, 32, e2001740.	11.1	157
10	Synergistic Dual-Additive Electrolyte Enables Practical Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 15045-15051.	1.6	26
11	Synergistic Dual-Additive Electrolyte Enables Practical Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14935-14941.	7.2	210
12	Strategies in catalysts and electrolyzer design for electrochemical CO <sub>2</sub> reduction toward C <sub>2+</sub> products. <i>Science Advances</i> , 2020, 6, eaay3111.	4.7	477
13	Direct electrosynthesis of pure aqueous H <sub>2</sub> O <sub>2</sub> solutions up to 20% by weight using a solid electrolyte. <i>Science</i> , 2019, 366, 226-231.	6.0	573
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	Stable Li-Metal Deposition via a 3D Nanodiamond Matrix with Ultrahigh Young's Modulus. <i>Small Methods</i> , 2019, 3, 1900325.	4.6	40
16	Hierarchical Co <sub>3</sub> O <sub>4</sub> Nanofiber-Carbon Sheet Skeleton with Superior Na/Li-Philic Property Enabling Highly Stable Alkali Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808847.	7.8	147
17	Rational design of robust-flexible protective layer for safe lithium metal battery. <i>Energy Storage Materials</i> , 2019, 18, 205-212.	9.5	116
18	A cation-anion regulation synergistic anode host for dendrite-free lithium metal batteries. <i>Science Advances</i> , 2018, 4, eaar4410.	4.7	241

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19	1D SnO <sub>2</sub> with Wire-in-Tube Architectures for Highly Selective Electrochemical Reduction of CO <sub>2</sub> to C <sub>1</sub> Products. <i>Advanced Functional Materials</i> , 2018, 28, 1706289.	7.8	153
20	Recent Progress of the Solid-State Electrolytes for High-Energy Metal-Based Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702657.	10.2	851
21	Stable Lithium Electrodeposition at Ultra-High Current Densities Enabled by 3D PMF/Li Composite Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1703360.	10.2	194
22	Enabling Stable Lithium Metal Anode via 3D Inorganic Skeleton with Superlithiophilic Interphase. <i>Advanced Energy Materials</i> , 2018, 8, 1802350.	10.2	147
23	Enhanced Lithium Storage Capability in Li-Ion Batteries Using Porous 3D Co <sub>3</sub> O <sub>4</sub> Nanofiber Anodes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 2046-2053.	1.8	42
24	Regulating Li deposition at artificial solid electrolyte interphases. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3483-3492.	5.2	258
25	Highly uniform Fe <sub>3</sub> O <sub>4</sub> nanoparticle-rGO composites as anode materials for high performance lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 54939-54946.	1.7	35
26	Progress in electrolytes for rechargeable Li-based batteries and beyond. <i>Green Energy and Environment</i> , 2016, 1, 18-42.	4.7	400
27	Chloride-Reinforced Carbon Nanofiber Host as Effective Polysulfide Traps in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016, 3, 1600175.	5.6	68