

Xuejie Gao

List of Publications by Year in descending order

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25
papers

2,195
citations

361413

20
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

2687
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining the limiting factor of the electrochemical stability window for PEO-based solid polymer electrolytes: main chain or terminal "OH group?. Energy and Environmental Science, 2020, 13, 1318-1325.	30.8	342
2	Promoting the Transformation of Li_2S to Li_2S_2 : Significantly Increasing Utilization of Active Materials for High-Sulfur Loading Li-S Batteries. Advanced Materials, 2019, 31, e1901220.	21.0	303
3	Recent advances and perspectives on thin electrolytes for high-energy-density solid-state lithium batteries. Energy and Environmental Science, 2021, 14, 643-671.	30.8	200
4	Cobalt-Doped SnS_2 with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-Sulfur Loading Li-S Batteries. Advanced Functional Materials, 2019, 29, 1806724.	14.9	186
5	Bifunctional composite separator with a solid-state-battery strategy for dendrite-free lithium metal batteries. Energy Storage Materials, 2020, 29, 361-366.	18.0	157
6	Toward High Areal Energy and Power Density Electrode for Li-Ion Batteries via Optimized 3D Printing Approach. ACS Applied Materials & Interfaces, 2018, 10, 39794-39801.	8.0	126
7	High-areal-capacity all-solid-state lithium batteries enabled by rational design of fast ion transport channels in vertically-aligned composite polymer electrodes. Nano Energy, 2019, 61, 567-575.	16.0	126
8	Toward a remarkable Li-S battery via 3D printing. Nano Energy, 2019, 56, 595-603.	16.0	115
9	Hollow NiFe_2O_4 nanospheres on carbon nanorods as a highly efficient anode material for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 5007-5012.	10.3	77
10	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of $10 \text{ mA cm}^{-2}/20 \text{ mAh cm}^{-2}$ Realized by Selective Nucleation within Microchannel Walls. Advanced Energy Materials, 2020, 10, 1903753.	19.5	62
11	Converting a thick electrode into vertically aligned "Thin electrodes" by 3D-Printing for designing thickness independent Li-S cathode. Energy Storage Materials, 2020, 24, 682-688.	18.0	59
12	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. Energy Storage Materials, 2019, 22, 194-199.	18.0	55
13	Recent progress and perspectives on designing high-performance thick electrodes for all-solid-state lithium batteries. ETransportation, 2022, 11, 100152.	14.8	53
14	Carbon coated bimetallic sulfide nanodots/carbon nanorod heterostructure enabling long-life lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 25625-25631.	10.3	41
15	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state Li-Se batteries. Journal of Materials Chemistry A, 2020, 8, 278-286.	10.3	41
16	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. Advanced Materials, 2021, 33, e2101259.	21.0	41
17	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. Energy Storage Materials, 2018, 15, 415-421.	18.0	40
18	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. Energy Storage Materials, 2020, 27, 198-204.	18.0	40

#	ARTICLE	IF	CITATIONS
19	3D Printing of Free-Standing CeO_2 Breathable Air Electrodes for High-Capacity and Long-Life Na O_2 Batteries. <i>Chemistry of Materials</i> , 2020, 32, 3018-3027.	6.7	37
20	Fast Charging All Solid State Lithium Batteries Enabled by Rational Design of Dual Vertically Aligned Electrodes. <i>Advanced Functional Materials</i> , 2020, 30, 2005357.	14.9	24
21	Phase Evolution of a Prenucleator for Fast Li Nucleation in All Solid State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001191.	19.5	17
22	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2020, 32, 1272-1280.	6.7	17
23	Self-supported ultrathin mesoporous $\text{CoFe}_2\text{O}_4/\text{CoO}$ nanosheet arrays assembled from nanowires with enhanced lithium storage performance. <i>Journal of Materials Science</i> , 2016, 51, 6590-6599.	3.7	16
24	Realizing High Performance Li S Batteries through Additive Manufactured and Chemically Enhanced Cathodes. <i>Small Methods</i> , 2021, 5, e2100176.	8.6	12
25	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. <i>Chemistry of Materials</i> , 2021, 33, 2029-2036.	6.7	8