Xuejie Gao

List of Publications by Year in descending order

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Version: 2024-02-01

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	Recent progress and perspectives on designing high-performance thick electrodes for all-solid-state lithium batteries. ETransportation, 2022, 11, 100152.	14.8	53
2	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
3	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. Chemistry of Materials, 2021, 33, 2029-2036.	6.7	8
4	New Insights into the Highâ€Performance Black Phosphorus Anode for Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2101259.	21.0	41
5	Realizing Highâ€Performance Liâ€S Batteries through Additive Manufactured and Chemically Enhanced Cathodes. Small Methods, 2021, 5, e2100176.	8.6	12
6	Converting a thick electrode into vertically aligned â€œThin electrodesâ€•by 3D-Printing for designing thickness independent Li-S cathode. Energy Storage Materials, 2020, 24, 682-688.	18.0	59
7	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state Liâ€“Se batteries. Journal of Materials Chemistry A, 2020, 8, 278-286.	10.3	41
8	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
9	Phase Evolution of a Prenucleator for Fast Li Nucleation in Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2020, 10, 2001191.	19.5	17
10	Fast Charging All Solidâ€State Lithium Batteries Enabled by Rational Design of Dual Verticallyâ€Aligned Electrodes. Advanced Functional Materials, 2020, 30, 2005357.	14.9	24
11	Determining the limiting factor of the electrochemical stability window for PEO-based solid polymer electrolytes: main chain or terminal â€“OH group?. Energy and Environmental Science, 2020, 13, 1318-1325.	30.8	342
12	3D Printing of Free-Standing â€œO₂ Breathableâ€•Air Electrodes for High-Capacity and Long-Life Naâ€“O₂ Batteries. Chemistry of Materials, 2020, 32, 3018-3027.	6.7	37
13	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm^{â^'2}/20 mAh cm^{â^'2} Realized by Selective Nucleation within Microchannel Walls. Advanced Energy Materials, 2020, 10, 1903753.	19.5	62
14	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. Chemistry of Materials, 2020, 32, 1272-1280.	6.7	17
15	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. Energy Storage Materials, 2020, 27, 198-204.	18.0	40
16	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. Energy Storage Materials, 2019, 22, 194-199.	18.0	55
17	Cobaltâ€Doped SnS₂ with Dual Active Centers of Synergistic Absorptionâ€Catalysis Effect for Highâ€S Loading Liâ€S Batteries. Advanced Functional Materials, 2019, 29, 1806724.	14.9	186
18	Promoting the Transformation of Li₂S₂ to Li₂S: Significantly Increasing Utilization of Active Materials for Highâ€Sulfurâ€Loading Liâ€“S Batteries. Advanced Materials, 2019, 31, e1901220.	21.0	303

#	Article	IF	Citations
19	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
20	Toward a remarkable Li-S battery via 3D printing. Nano Energy, 2019, 56, 595-603.	16.0	115
21	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
22	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
23	Hollow NiFe₂O₄nanospheres 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
24	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
25	Self-supported ultrathin mesoporous CoFe2O4/CoO nanosheet arrays assembled from nanowires with enhanced lithium storage performance. Journal of Materials Science, 2016, 51, 6590-6599.	3.7	16