

Xiang Ge

List of Publications by Year in descending order

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papers

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201674

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4808
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution synthesis of metal oxides for electrochemical energy storage applications. <i>Nanoscale</i> , 2014, 6, 5008-5048.	5.6	363
2	Deep eutectic solvents (DESS)-derived advanced functional materials for energy and environmental applications: challenges, opportunities, and future vision. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8209-8229.	10.3	274
3	One-dimension MnCo ₂ O ₄ nanowire arrays for electrochemical energy storage. <i>Electrochimica Acta</i> , 2014, 116, 467-474.	5.2	259
4	Periodic stacking of 2D charged sheets: Self-assembled superlattice of Ni-Al layered double hydroxide (LDH) and reduced graphene oxide. <i>Nano Energy</i> , 2016, 20, 185-193.	16.0	188
5	An ex-situ nitridation route to synthesize Li ₃ N-modified Li anodes for lithium secondary batteries. <i>Journal of Power Sources</i> , 2015, 277, 304-311.	7.8	174
6	Honeycomb-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. <i>Advanced Materials</i> , 2018, 30, e1805468.	21.0	152
7	Dielectric Polarization in Inverse Spinel-Structured Mg ₂ TiO ₄ Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. <i>Advanced Materials</i> , 2020, 32, e2000496.	21.0	134
8	Lowering Charge Transfer Barrier of LiMn ₂ O ₄ via Nickel Surface Doping To Enhance Li ⁺ Intercalation Kinetics at Subzero Temperatures. <i>Journal of the American Chemical Society</i> , 2019, 141, 14038-14042.	13.7	125
9	NiO nanoflakes grown on porous graphene frameworks as advanced electrochemical pseudocapacitor materials. <i>Journal of Power Sources</i> , 2014, 259, 98-105.	7.8	106
10	Ionothermal synthesis of cobalt iron layered double hydroxides (LDHs) with expanded interlayer spacing as advanced electrochemical materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17066-17076.	10.3	90
11	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019, 31, e1903130.	21.0	82
12	Correlation between Microstructure and Electrochemical Behavior of the Mesoporous Co ₃ O ₄ Sheet and Its Ionothermal Synthesized Hydrotalcite-like γ -Co(OH) ₂ Precursor. <i>Journal of Physical Chemistry C</i> , 2014, 118, 911-923.	3.1	79
13	NiO electrode for methanol electro-oxidation: Mesoporous vs. nanoparticulate. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10892-10901.	7.1	76
14	One-step synthesis of hematite nanospindles from choline chloride/urea deep eutectic solvent with highly powerful storage versus lithium. <i>Journal of Power Sources</i> , 2015, 274, 1-7.	7.8	74
15	A versatile protocol for the ionothermal synthesis of nanostructured nickel compounds as energy storage materials from a choline chloride-based ionic liquid. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13454.	10.3	70
16	Cation-anion double hydrolysis derived layered single metal hydroxide superstructures for boosted supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14228-14238.	10.3	69
17	Approaching the Lithiation Limit of MoS ₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3521-3526.	13.8	62
18	Anchoring Ni ₂ P Sheets on NiCo ₂ O ₄ Nanocone Arrays as Optimized Bifunctional Electrocatalyst for Water Splitting. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700481.	3.7	59

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19	Interfacial Lattice Strain-Driven Generation of Oxygen Vacancies in an Aerobic Annealed TiO ₂ (B) Electrode. <i>Advanced Materials</i> , 2019, 31, e1906156.	21.0	53
20	Crystalline/amorphous tungsten oxide core/shell hierarchical structures and their synergistic effect for optical modulation. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 200-208.	9.4	46
21	Deep Cycling for High-Capacity Li-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2004998.	21.0	43
22	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Compositing Electrode of Si Nanoparticles and TiO ₂ Nanotubes. <i>Small</i> , 2020, 16, e2002094.	10.0	41
23	Closed-loop cobalt recycling from spent lithium-ion batteries based on a deep eutectic solvent (DES) with easy solvent recovery. <i>Journal of Energy Chemistry</i> , 2022, 72, 532-538.	12.9	40
24	Unraveling the Formation of Amorphous MoS ₂ Nanograins during the Electrochemical Delithiation Process. <i>Advanced Functional Materials</i> , 2019, 29, 1904843.	14.9	38
25	A NiCo ₂ O ₄ Shell on a Hollow Ni Nanorod Array Core for Water Splitting with Enhanced Electrocatalytic Performance. <i>ChemNanoMat</i> , 2018, 4, 124-131.	2.8	34
26	Endowing manganese oxide with fast adsorption ability through controlling the manganese carbonate precursor assembled in ionic liquid. <i>Journal of Colloid and Interface Science</i> , 2015, 438, 149-158.	9.4	32
27	Ternary Deep Eutectic Solvent (DES) with a Regulated Rate-Determining Step for Efficient Recycling of Lithium Cobalt Oxide. <i>ACS Omega</i> , 2022, 7, 11452-11459.	3.5	32
28	Spinel type CoFe oxide porous nanosheets as magnetic adsorbents with fast removal ability and facile separation. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 134-143.	9.4	28
29	Synchronized ion and electron transfer in a blue T-Nb ₂ O _{5-x} with solid-solution-like process for fast and high volumetric charge storage. <i>Energy Storage Materials</i> , 2021, 36, 213-221.	18.0	27
30	Growth of nickel phosphide films as anodes for lithium-ion batteries: Based on a novel method for synthesis of nickel films using ionic liquids. <i>Electrochimica Acta</i> , 2013, 112, 212-220.	5.2	26
31	Anomalous self-reduction of layered double hydroxide (LDH): from Ni(OH) ₂ to hexagonal close packing (HCP) Ni/NiO by annealing without a reductant. <i>Chemical Communications</i> , 2015, 51, 1004-1007.	4.1	23
32	Pseudocapacitive material with 928 mAh cm ⁻³ particle-level volumetric specific capacity enabled by continuous phase-transition. <i>Chemical Engineering Journal</i> , 2018, 338, 211-217.	12.7	22
33	Approaching the Lithiation Limit of MoS ₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. <i>Angewandte Chemie</i> , 2019, 131, 3559-3564.	2.0	18
34	Graphene-wrapped Ni ₂ P materials: a 3D porous architecture with improved electrochemical performance. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2245-2253.	2.5	16
35	Highly Efficient Bifunctional Catalyst of NiCo ₂ O ₄ @NiO@Ni Core/Shell Nanocone Array for Stable Overall Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700228.	2.3	16
36	Conjugately configured supercapacitors: Mitigating self-discharge based on pairs of pre-lithiated niobium oxides. <i>Chemical Engineering Journal</i> , 2022, 450, 137977.	12.7	13

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37	Electrode Materials: Interfacial Latticeâ€Strainâ€Driven Generation of Oxygen Vacancies in an Aerobicâ€Annealed TiO₂ (B) Electrode (Adv. Mater. 52/2019). Advanced Materials, 2019, 31, 1970367.	21.0	9
38	Highly Elastic Binders Incorporated with Helical Molecules to Improve the Electrochemical Stability of Black Phosphorous Anodes for Sodiumâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 101-107.	4.7	8
39	Strain Redistribution in Metalâ€Sulfideâ€Composite Anode for Enhancing Volumetric Lithium Storage. ChemElectroChem, 2018, 5, 3906-3912.	3.4	7
40	Enabling the Highâ€Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase. Small Methods, 2022, 6, e2100920.	8.6	5
41	A Conjugately Configured Supercapacitor with Suppressed Self-Discharge by Coupling Pairs of Presodiated Manganese Oxides. Energy & Fuels, 2022, 36, 7140-7146.	5.1	5
42	Enabling the Highâ€Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase (Small Methods 4/2022). Small Methods, 2022, 6, .	8.6	1
43	Siliconâ€Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solidâ€Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO₂ Nanotubes (Small 30/2020). Small, 2020, 16, 2070169.	10.0	0