

Yu Meng

List of Publications by Year in descending order

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62
papers

3,327
citations

136950

32
h-index

144013

57
g-index

62
all docs

62
docs citations

62
times ranked

4157
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulating composite polymer electrolyte by lithium closo-borohydride achieves highly stable solid-state battery at 25Å°C. Science China Materials, 2022, 65, 95-104.	6.3	12
2	Self-Adapting Electrochemical Grinding Strategy for Stable Silicon Anode. Advanced Functional Materials, 2022, 32, 2109887.	14.9	14
3	Sequential Phase Conversion-Induced Phosphides Heteronanorod Arrays for Superior Hydrogen Evolution Performance to Pt in Wide pH Media. Advanced Materials, 2022, 34, e2107548.	21.0	73
4	NiS _{1-x} S _x Nanoparticles Anchored on Nitrogen-Doped Reduced Graphene Oxide as Highly Stable Anode for Sodium-Ion Battery. Processes, 2022, 10, 566.	2.8	3
5	Alloying Co Species into Ordered and Interconnected Macroporous Carbon Polyhedra for Efficient Oxygen Reduction Reaction in Rechargeable Zinc-Air Batteries. Advanced Materials, 2022, 34, e2109605.	21.0	61
6	Respective Roles of Inner and Outer Carbon in Boosting the K ⁺ Storage Performance of Dual-Carbon-Confined ZnSe. Advanced Science, 2022, 9, e2104822.	11.2	35
7	Interface Modification and Halide Substitution To Achieve High Ionic Conductivity in LiBH ₄ -Based Electrolytes for all-Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 1260-1269.	8.0	9
8	Improved Low-Temperature Performance of Rocking-Chair Sodium-Ion Hybrid Capacitor by Mitigating the De-Solvation Energy and Interphase Resistance. Advanced Functional Materials, 2022, 32, .	14.9	12
9	Less Is More: High-Performance All-Solid-State Electrode Enabled by Multifunctional MXene. ACS Applied Energy Materials, 2022, 5, 7210-7219.	5.1	4
10	In Situ Construction of Lithium Silicide Host with Unhindered Lithium Spread for Dendrite-Free Lithium Metal Anode. Advanced Functional Materials, 2021, 31, 2008786.	14.9	18
11	Ni, beyond thermodynamic tuning, maintains the catalytic activity of V species in Ni ₃ (VO ₄) ₂ -doped MgH ₂ . Journal of Materials Chemistry A, 2021, 9, 8341-8349.	10.3	37
12	Two-Dimensional CuGaSe ₂ @ZnSe-NC Heterostructures for Enhanced Sodium Ion Storage. ACS Applied Energy Materials, 2021, 4, 2761-2768.	5.1	13
13	Stabilizing Transition Metal Vacancy Induced Oxygen Redox by Co ²⁺ /Co ³⁺ Redox and Sodium-Site Doping for Layered Cathode Materials. Angewandte Chemie, 2021, 133, 22197-22205.	2.0	1
14	P-Block Atomically Dispersed Antimony Catalyst for Highly Efficient Oxygen Reduction Reaction. Angewandte Chemie, 2021, 133, 21407-21411.	2.0	61
15	Stabilizing Transition Metal Vacancy Induced Oxygen Redox by Co ²⁺ /Co ³⁺ Redox and Sodium-Site Doping for Layered Cathode Materials. Angewandte Chemie - International Edition, 2021, 60, 22026-22034.	13.8	39
16	P-Block Atomically Dispersed Antimony Catalyst for Highly Efficient Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2021, 60, 21237-21241.	13.8	98
17	Co/CoP Heterojunction on Hierarchically Ordered Porous Carbon as a Highly Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. Advanced Energy Materials, 2021, 11, 2102134.	19.5	138
18	A phosphorus and carbon composite containing nanocrystalline Sb as a stable and high-capacity anode for sodium ion batteries. Journal of Materials Chemistry A, 2020, 8, 443-452.	10.3	29

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19	Electrocatalytic Hydrogen Evolution of Ultrathin CoMo_5N_6 Heterojunction with Interfacial Electron Redistribution. <i>Advanced Energy Materials</i> , 2020, 10, 2002176.	19.5	138
20	Revealing the Role of Liquid Metals at the Anode-Electrolyte Interface for All Solid-State Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38232-38240.	8.0	13
21	Tailor-Made Gives the Best Fits: Superior Na/K-Ion Storage Performance in Exclusively Confined Red Phosphorus System. <i>ACS Nano</i> , 2020, 14, 12222-12233.	14.6	55
22	Conductive Boron Nitride as Promising Catalyst Support for the Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 1902521.	19.5	28
23	Li-triggered superior catalytic activity of V in Li_3VO_4 : enabling fast and full hydrogenation of Mg at lower temperatures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14935-14943.	10.3	24
24	Rational Construction of Nitrogen-Doped Hierarchical Dual-Carbon for Advanced Potassium-Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020, 10, 1904045.	19.5	197
25	Interfacial Charge Field in Hierarchical Yolk-Shell Nanocapsule Enables Efficient Immobilization and Catalysis of Polysulfides Conversion. <i>Advanced Energy Materials</i> , 2019, 9, 1901667.	19.5	59
26	Inside or Outside: Origin of Lithium Dendrite Formation of All Solid-State Electrolytes. <i>Advanced Energy Materials</i> , 2019, 9, 1902123.	19.5	76
27	Lithium Dendrites: Inside or Outside: Origin of Lithium Dendrite Formation of All Solid-State Electrolytes (<i>Adv. Energy Mater.</i> 40/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970155.	19.5	4
28	Embedding heterostructured $\text{MnS/Co}_x\text{S}$ nanoparticles in porous carbon/graphene for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1260-1266.	10.3	64
29	Exploring the sodium ion storage mechanism of gallium sulfide (Ga_2S_3): a combined experimental and theoretical approach. <i>Nanoscale</i> , 2019, 11, 3208-3215.	5.6	24
30	Improving the Electrochemical Performance and Structural Stability of the $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Material at High-Voltage Charging through Ti Substitution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23213-23221.	8.0	57
31	Fully reversible lithium storage of tin oxide enabled by self-doping and partial amorphization. <i>Nanoscale</i> , 2019, 11, 12915-12923.	5.6	12
32	Low-temperature electroless synthesis of mesoporous aluminum nanoparticles on graphene for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13917-13921.	10.3	13
33	Unlocking the Lithium Storage Capacity of Aluminum by Molecular Immobilization and Purification. <i>Advanced Materials</i> , 2019, 31, e1901372.	21.0	23
34	A novel composite strategy to build a sub-zero temperature stable anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9051-9058.	10.3	9
35	Controlled phase evolution from $\text{Cu}_{0.33}\text{Co}_{0.67}\text{S}_2$ to $\text{Cu}_3\text{Co}_6\text{S}_8$ hexagonal nanosheets as oxygen evolution reaction catalysts. <i>RSC Advances</i> , 2019, 9, 9729-9736.	3.6	11
36	A High-Performance Li-Battery Electrolyte for All-Solid-State Li Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809219.	14.9	88

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37	Rooting bismuth oxide nanosheets into porous carbon nanoboxes as a sulfur immobilizer for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7074-7081.	10.3	48
38	Cu _{0.33} Co _{0.67} S ₂ Hexagonal Sheets with 2D Hierarchical Structures for High-Rate and Long-Term Lithium Storage. <i>ChemNanoMat</i> , 2019, 5, 531-538.	2.8	3
39	Recent progress on printable power supply devices and systems with nanomaterials. <i>Nano Research</i> , 2018, 11, 3065-3087.	10.4	60
40	Rapid Amorphization in Metastable CoSeO ₃ ·H ₂ O Nanosheets for Ultrafast Lithiation Kinetics. <i>ACS Nano</i> , 2018, 12, 5011-5020.	14.6	53
41	Hierarchical Fe ₂ O ₃ @C/MnO ₂ @C Multishell Nanocomposites for High Performance Lithium Ion Batteries and Catalysts. <i>Langmuir</i> , 2018, 34, 5225-5233.	3.5	28
42	Tunable electronic coupling of cobalt sulfide/carbon composites for optimizing oxygen evolution reaction activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10304-10312.	10.3	86
43	Magnesium Hydride Nanoparticles Self-Assembled on Graphene as Anode Material for High-Performance Lithium-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 3816-3824.	14.6	41
44	CuGaS ₂ nanoplates: a robust and self-healing anode for Li/Na ion batteries in a wide temperature range of 268-318 K. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1086-1093.	10.3	44
45	Embedding ZnSe nanodots in nitrogen-doped hollow carbon architectures for superior lithium storage. <i>Nano Research</i> , 2018, 11, 966-978.	10.4	114
46	Ultrafine Co Nanoparticles Encapsulated in Carbon Nanotubes Grafted Graphene Sheets as Advanced Electrocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1802011.	21.0	453
47	Hydrogen-induced magnesium-zirconium interfacial coupling: enabling fast hydrogen sorption at lower temperatures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5067-5076.	10.3	94
48	Pseudocapacitance-tuned high-rate and long-term cyclability of NiCo ₂ S ₄ hexagonal nanosheets prepared by vapor transformation for lithium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9022-9031.	10.3	87
49	General Synthesis of Dual Carbon-Confined Metal Sulfides Quantum Dots Toward High-Performance Anodes for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1702046.	14.9	259
50	CuO/ZnO/Al ₂ O ₃ Catalyst Prepared by Mechanical-Force-Driven Solid-State Ion Exchange and Its Excellent Catalytic Activity under Internal Cooling Condition. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8216-8223.	3.7	18
51	Bottom-up Approach Design, Band Structure, and Lithium Storage Properties of Atomically Thin β -FeOOH Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21334-21342.	8.0	49
52	General Synthesis of Transition Metal Oxide Ultrafine Nanoparticles Embedded in Hierarchically Porous Carbon Nanofibers as Advanced Electrodes for Lithium Storage. <i>Advanced Functional Materials</i> , 2016, 26, 6188-6196.	14.9	61
53	Synthesis of Ammonia Borane Nanoparticles and the Diammoniate of Diborane by Direct Combination of Diborane and Ammonia. <i>Chemistry - A European Journal</i> , 2016, 22, 6228-6233.	3.3	14
54	Enhancement of Hydrogen Storage in Destabilized LiNH ₂ with KMgH ₃ by Quick Conveyance of N-Containing Species. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1415-1420.	3.1	28

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55	Comparative Investigations on Hydrogen Absorption/Desorption Properties of Sm-Mg-Ni Compounds: The Effect of [SmNi5]/[SmMgNi4] Unit Ratio. Journal of Physical Chemistry C, 2015, 119, 4719-4727.	3.1	33
56	Advanced H ₂ -storage system fabricated through chemical layer deposition in a well-designed porous carbon scaffold. Journal of Materials Chemistry A, 2014, 2, 15168-15174.	10.3	6
57	Facile self-assembly of light metal borohydrides with controllable nanostructures. RSC Advances, 2014, 4, 983-986.	3.6	19
58	Carbon nanomaterial-assisted morphological tuning for thermodynamic and kinetic destabilization in sodium alanates. Journal of Materials Chemistry A, 2013, 1, 5238.	10.3	30
59	Superior Destabilization Effects of MnF ₂ over MnCl ₂ in the Decomposition of LiBH ₄ . Journal of Physical Chemistry C, 2011, 115, 13528-13533.	3.1	40
60	Improved dehydrogenation of TiF ₃ -doped NaAlH ₄ using ordered mesoporous SiO ₂ as a codopant. Journal of Materials Research, 2010, 25, 2047-2053.	2.6	19
61	Phase Stability, Structural Transition, and Hydrogen Absorption/Desorption Features of the Polymorphic La ₄ MgNi ₁₉ Compound. Journal of Physical Chemistry C, 2010, 114, 11686-11692.	3.1	83
62	Pressure hysteresis in the TiMn _{1.5} V _x -H ₂ ($x = 0.1 \sim 0.5$) system. Journal of Materials Research, 2009, 24, 2886-2891.	2.6	5