

Yu Meng

List of Publications by Year in descending order

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136950

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4157
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#	ARTICLE	IF	CITATIONS
1	Ultrafine Co Nanoparticles Encapsulated in Carbonâ€Nanotubesâ€Grafted Graphene Sheets as Advanced Electrocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1802011.	21.0	453
2	General Synthesis of Dual Carbonâ€Confined Metal Sulfides Quantum Dots Toward Highâ€Performance Anodes for Sodiumâ€Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1702046.	14.9	259
3	Rational Construction of Nitrogenâ€Doped Hierarchical Dualâ€Carbon for Advanced Potassiumâ€Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020, 10, 1904045.	19.5	197
4	Electrocatalytic Hydrogen Evolution of Ultrathin Coâ€Mo ₅ N ₆ Heterojunction with Interfacial Electron Redistribution. <i>Advanced Energy Materials</i> , 2020, 10, 2002176.	19.5	138
5	Co/CoP Heterojunction on Hierarchically Ordered Porous Carbon as a Highly Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021, 11, 2102134.	19.5	138
6	Embedding ZnSe nanodots in nitrogen-doped hollow carbon architectures for superior lithium storage. <i>Nano Research</i> , 2018, 11, 966-978.	10.4	114
7	<i>P</i> -Block Atomically Dispersed Antimony Catalyst for Highly Efficient Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21237-21241.	13.8	98
8	Hydrogen-induced magnesiumâ€zirconium interfacial coupling: enabling fast hydrogen sorption at lower temperatures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5067-5076.	10.3	94
9	A Highâ€Performance Liâ€Bâ€H Electrolyte for Allâ€Solidâ€State Li Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809219.	14.9	88
10	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
11	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
12	Phase Stability, Structural Transition, and Hydrogen Absorptionâ€Desorption Features of the Polymorphic La ₄ MgNi ₁₉ Compound. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11686-11692.	3.1	83
13	Inside or Outside: Origin of Lithium Dendrite Formation of All Solidâ€State Electrolytes. <i>Advanced Energy Materials</i> , 2019, 9, 1902123.	19.5	76
14	Sequential Phase Conversionâ€Induced Phosphides Heteronanorod Arrays for Superior Hydrogen Evolution Performance to Pt in Wide pH Media. <i>Advanced Materials</i> , 2022, 34, e2107548.	21.0	73
15	Embedding heterostructured MnS/Co _{1-x} S nanoparticles in porous carbon/graphene for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1260-1266.	10.3	64
16	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
17	<i>P</i> -Block Atomically Dispersed Antimony Catalyst for Highly Efficient Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2021, 133, 21407-21411.	2.0	61
18	Alloying Co Species into Ordered and Interconnected Macroporous Carbon Polyhedra for Efficient Oxygen Reduction Reaction in Rechargeable Zincâ€Air Batteries. <i>Advanced Materials</i> , 2022, 34, e2109605.	21.0	61

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19	Recent progress on printable power supply devices and systems with nanomaterials. <i>Nano Research</i> , 2018, 11, 3065-3087.	10.4	60
20	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
21	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
22	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
23	Rapid Amorphization in Metastable $\text{CoSeO}_3 \cdot \text{H}_2\text{O}$ Nanosheets for Ultrafast Lithiation Kinetics. <i>ACS Nano</i> , 2018, 12, 5011-5020.	14.6	53
24	Bottom-up Approach Design, Band Structure, and Lithium Storage Properties of Atomically Thin $^{\text{3}}\text{FeOOH}$ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21334-21342.	8.0	49
25	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
26	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
27	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
28	Superior Destabilization Effects of MnF_2 over MnCl_2 in the Decomposition of LiBH_4 . <i>Journal of Physical Chemistry C</i> , 2011, 115, 13528-13533.	3.1	40
29	Stabilizing Transition Metal Vacancy Induced Oxygen Redox by $\text{Co}^{2+}/\text{Co}^{3+}$ Redox and Sodium-Site Doping for Layered Cathode Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22026-22034.	13.8	39
30	Ni, beyond thermodynamic tuning, maintains the catalytic activity of V species in $\text{Ni}_3(\text{VO}_4)_2$ doped MgH_2 . <i>Journal of Materials Chemistry A</i> , 2021, 9, 8341-8349.	10.3	37
31	Respective Roles of Inner and Outer Carbon in Boosting the K^+ Storage Performance of Dual-Carbon-Confined ZnSe. <i>Advanced Science</i> , 2022, 9, e2104822.	11.2	35
32	Comparative Investigations on Hydrogen Absorption-Desorption Properties of Sm-Mg-Ni Compounds: The Effect of $[\text{SmNi}_5]/[\text{SmMgNi}_4]$ Unit Ratio. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4719-4727.	3.1	33
33	Carbon nanomaterial-assisted morphological tuning for thermodynamic and kinetic destabilization in sodium alanates. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5238.	10.3	30
34	A phosphorus and carbon composite containing nanocrystalline Sb as a stable and high-capacity anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 443-452.	10.3	29
35	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
36	Hierarchical $\text{Fe}_2\text{O}_3 @ \text{C} @ \text{MnO}_2 @ \text{C}$ Multishell Nanocomposites for High Performance Lithium Ion Batteries and Catalysts. <i>Langmuir</i> , 2018, 34, 5225-5233.	3.5	28

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37	Conductive Boron Nitride as Promising Catalyst Support for the Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 1902521.	19.5	28
38	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
39	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
40	Unlocking the Lithium Storage Capacity of Aluminum by Molecular Immobilization and Purification. <i>Advanced Materials</i> , 2019, 31, e1901372.	21.0	23
41	Improved dehydrogenation of TiF_3 -doped NaAlH_4 using ordered mesoporous SiO_2 as a codopant. <i>Journal of Materials Research</i> , 2010, 25, 2047-2053.	2.6	19
42	Facile self-assembly of light metal borohydrides with controllable nanostructures. <i>RSC Advances</i> , 2014, 4, 983-986.	3.6	19
43	$\text{CuO/ZnO/Al}_2\text{O}_3$ 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
44	In Situ Construction of Lithium Silicide Host with Unhindered Lithium Spread for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021, 31, 2008786.	14.9	18
45	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
46	Self-Adapting Electrochemical Grinding Strategy for Stable Silicon Anode. <i>Advanced Functional Materials</i> , 2022, 32, 2109887.	14.9	14
47	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
48	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
49	Two-Dimensional CuGaSe_2 @ ZnSe -NC Heterostructures for Enhanced Sodium Ion Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 2761-2768.	5.1	13
50	Fully reversible lithium storage of tin oxide enabled by self-doping and partial amorphization. <i>Nanoscale</i> , 2019, 11, 12915-12923.	5.6	12
51	Modulating composite polymer electrolyte by lithium closo-borohydride achieves highly stable solid-state battery at 25°C. <i>Science China Materials</i> , 2022, 65, 95-104.	6.3	12
52	Improved Low-Temperature Performance of Rocking-Chair Sodium-Ion Hybrid Capacitor by Mitigating the Desolvation Energy and Interphase Resistance. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	12
53	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
54	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

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55	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
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	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
58	Lithium Dendrites: Inside or Outside: Origin of Lithium Dendrite Formation of All Solid-State Electrolytes (Adv. Energy Mater. 40/2019). Advanced Energy Materials, 2019, 9, 1970155.	19.5	4
59	Less Is More: High-Performance All-Solid-State Electrode Enabled by Multifunctional MXene. ACS Applied Energy Materials, 2022, 5, 7210-7219.	5.1	4
60	Cu _{0.33} Co _{0.67} S ₂ Hexagonal Sheets with 2D Hierarchical Structures for High-Rate and Long-Term Lithium Storage. ChemNanoMat, 2019, 5, 531-538.	2.8	3
61	NiS _{1-x} Se _x Nanoparticles Anchored on Nitrogen-Doped Reduced Graphene Oxide as Highly Stable Anode for Sodium-Ion Battery. Processes, 2022, 10, 566.	2.8	3
62	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