## Jianfeng Mao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electrolyte Engineering Enables High Performance Zincâ€lon Batteries. Small, 2022, 18, e2107033.	10.0	118
2	Challenges and prospects of lithium–CO <sub>2</sub> batteries. , 2022, 1, e9120001.		99
3	From room temperature to harsh temperature applications: Fundamentals and perspectives on electrolytes in zinc metal batteries. Science Advances, 2022, 8, eabn5097.	10.3	164
4	NiS2 nanodots on N,S-doped graphene synthesized via interlayer confinement for enhanced lithium-/sodium-ion storage. Journal of Colloid and Interface Science, 2022, 619, 359-368.	9.4	11
5	Organic electrolyte design for practical potassium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 19090-19106.	10.3	30
6	Toward practical lithium-ion battery recycling: adding value, tackling circularity and recycling-oriented design. Energy and Environmental Science, 2022, 15, 2732-2752.	30.8	110
7	A Highâ€Performance Alginate Hydrogel Binder for Aqueous Znâ^'Ion Batteries. ChemPhysChem, 2022, 23, .	2.1	7
8	Bi2Se0.5Te2.5/S, N-doped reduced graphene oxide as anode materials for high-performance Lithium ion batteries. Journal of Alloys and Compounds, 2022, 920, 166003.	5.5	7
9	Manipulating the Solvation Structure of Nonflammable Electrolyte and Interface to Enable Unprecedented Stability of Graphite Anodes beyond 2 Years for Safe Potassiumâ€lon Batteries. Advanced Materials, 2021, 33, e2006313.	21.0	155
10	Carbonâ€based metalâ€free catalysts for electrochemical CO <sub>2</sub> reduction: Activity, selectivity, and stability. , 2021, 3, 24-49.		60
11	Constructing nitrided interfaces for stabilizing Li metal electrodes in liquid electrolytes. Chemical Science, 2021, 12, 8945-8966.	7.4	72
12	Back Cover Image, Volume 3, Number 1, March 2021. , 2021, 3, ii.		0
13	Electrolyte Design for In Situ Construction of Highly Zn <sup>2+</sup> onductive Solid Electrolyte Interphase to Enable Highâ€Performance Aqueous Znâ€ŀon Batteries under Practical Conditions. Advanced Materials, 2021, 33, e2007416.	21.0	484
14	Phase Engineering of Nickel Sulfides to Boost Sodium―and Potassiumâ€Ion Storage Performance. Advanced Functional Materials, 2021, 31, 2010832.	14.9	86
15	Tuning the Electrolyte Solvation Structure to Suppress Cathode Dissolution, Water Reactivity, and Zn Dendrite Growth in Zinc″on Batteries. Advanced Functional Materials, 2021, 31, 2104281.	14.9	225
16	Bio-inspired design of an <i>in situ</i> multifunctional polymeric solid–electrolyte interphase for Zn metal anode cycling at 30 mA cm <sup>â^'2</sup> and 30 mA h cm <sup>â^'2</sup> . Energy and Environmental Science, 2021, 14, 5947-5957.	30.8	289
17	An Intrinsically Nonâ€flammable Electrolyte for Highâ€Performance Potassium Batteries. Angewandte Chemie - International Edition, 2020, 59, 3638-3644.	13.8	211
18	Carbon-encapsulated Bi2Te3 derived from metal-organic framework as anode for highly durable lithium and sodium storage. Journal of Alloys and Compounds, 2020, 837, 155536.	5.5	26

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19	Synergistic Catalytic Effect of Hollow Carbon Nanosphere and Silver Nanoparticles for Oxygen Reduction Reaction. ChemistrySelect, 2020, 5, 8099-8105.	1.5	11
20	Photoelectrochemical Catalysis of Fluorineâ€Doped Amorphous TiO <sub>2</sub> Nanotube Array for Water Splitting. ChemistrySelect, 2020, 5, 8831-8838.	1,5	4
21	Synergy of binders and electrolytes in enabling microsized alloy anodes for high performance potassium-ion batteries. Nano Energy, 2020, 77, 105118.	16.0	82
22	Ultrafast Li-ion migration in eggshell-inspired 2D@2D dual porous construction towards high rate energy storage. Carbon, 2020, 170, 66-74.	10.3	10
23	Deeply understanding the Zn anode behaviour and corresponding improvement strategies in different aqueous Zn-based batteries. Energy and Environmental Science, 2020, 13, 3917-3949.	30.8	480
24	MOFs-derived core-shell Co3Fe7@Fe2N nanopaticles supported on rGO as high-performance bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. Materials Today Energy, 2020, 17, 100433.	4.7	29
25	Catalytic Performances of NiCuP@rGO and NiCuN@rGO for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Electrolyte. ChemistrySelect, 2020, 5, 5855-5863.	1.5	4
26	Co/Ni-MOF-74-derived CoNi <sub>2</sub> S <sub>4</sub> nanoparticles embedded in porous carbon as a high performance anode material for sodium ion batteries. New Journal of Chemistry, 2020, 44, 13141-13147.	2.8	10
27	Boosted Charge Transfer in Twinborn α-(Mn <sub>2</sub> O <sub>3</sub> –MnO <sub>2</sub> ) Heterostructures: Toward High-Rate and Ultralong-Life Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 32526-32535.	8.0	70
28	Toward a Reversible Mn <sup>4+</sup> /Mn <sup>2+</sup> Redox Reaction and Dendriteâ€Free Zn Anode in Nearâ€Neutral Aqueous Zn/MnO <sub>2</sub> Batteries via Salt Anion Chemistry. Advanced Energy Materials, 2020, 10, 1904163.	19.5	221
29	An Intrinsically Nonâ€flammable Electrolyte for Highâ€Performance Potassium Batteries. Angewandte Chemie, 2020, 132, 3667-3673.	2.0	16
30	Enhanced lithium storage for MoS2-based composites via a vacancy-assisted method. Applied Surface Science, 2020, 515, 146103.	6.1	13
31	Insights into 2D graphene-like TiO2 (B) nanosheets as highly efficient catalyst for improved low-temperature hydrogen storage properties of MgH2. Materials Today Energy, 2020, 16, 100411.	4.7	25
32	Highly porous, low band-gap Ni <sub>x</sub> Mn <sub>3â^'x</sub> O <sub>4</sub> (0.55 ≤i>x≤1.2) spinel nanoparticles with <i>in situ</i> coated carbon as advanced cathode materials for zinc-ion batteries. Journal of Materials Chemistry A, 2019, 7, 17854-17866.	10.3	65
33	The critical role of carbon in marrying silicon and graphite anodes for highâ€energy lithiumâ€ion batteries. , 2019, 1, 57-76.		261
34	Synergistic catalysis in monodispersed transition metal oxide nanoparticles anchored on amorphous carbon for excellent low-temperature dehydrogenation of magnesium hydride. Materials Today Energy, 2019, 12, 146-154.	4.7	57
35	Ultrafast Li-ion migration in holey-graphene-based composites constructed by a generalized <i>ex situ</i> method towards high capacity energy storage. Journal of Materials Chemistry A, 2019, 7, 4788-4796.	10.3	34
36	Structural Insight into Layer Gliding and Lattice Distortion in Layered Manganese Oxide Electrodes for Potassiumâ€lon Batteries. Advanced Energy Materials, 2019, 9, 1900568.	19.5	125

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37	Recent progress and perspectives on aqueous Zn-based rechargeable batteries with mild aqueous electrolytes. Energy Storage Materials, 2019, 20, 410-437.	18.0	525
38	<i>In situ</i> incorporation of nanostructured antimony in an N-doped carbon matrix for advanced sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 12842-12850.	10.3	25
39	Electrochemical Reduction of CO <sub>2</sub> by SnO <sub><i>x</i></sub> Nanosheets Anchored on Multiwalled Carbon Nanotubes with Tunable Functional Groups. ChemSusChem, 2019, 12, 1443-1450.	6.8	50
40	Facile synthesis of Co/Pd supported by few-walled carbon nanotubes as an efficient bidirectional catalyst for improving the low temperature hydrogen storage properties of magnesium hydride. Journal of Materials Chemistry A, 2019, 7, 5277-5287.	10.3	88
41	Electrochemical impacts of sheet-like hafnium phosphide and hafnium disulfide catalysts bonded with reduced graphene oxide sheets for bifunctional oxygen reactions in alkaline electrolytes. RSC Advances, 2019, 9, 2599-2607.	3.6	17
42	Synthesis of porous MoV2O8 nanosheets as anode material for superior lithium storage. Energy Storage Materials, 2019, 22, 128-137.	18.0	28
43	Boosting the Potassium Storage Performance of Alloyâ€Based Anode Materials via Electrolyte Salt Chemistry. Advanced Energy Materials, 2018, 8, 1703288.	19.5	382
44	Two-dimensional nanostructures for sodium-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 3284-3303.	10.3	224
45	Investigation on the Catalytic Performance of Reducedâ€Grapheneâ€Oxideâ€Interpolated FeS <sub>2</sub> and FeS for Oxygen Reduction Reaction. ChemistrySelect, 2018, 3, 10418-10427.	1.5	17
46	Cathode Materials for Potassium-Ion Batteries: Current Status and Perspective. Electrochemical Energy Reviews, 2018, 1, 625-658.	25.5	201
47	Graphitic Carbon Nanocage as a Stable and High Power Anode for Potassiumâ€lon Batteries. Advanced Energy Materials, 2018, 8, 1801149.	19.5	442
48	Creating fast ion conducting composites via in-situ introduction of titanium as oxygen getter. Nano Energy, 2018, 49, 549-554.	16.0	18
49	Alkaline Exchange Polymer Membrane Electrolyte for High Performance of All-Solid-State Electrochemical Devices. ACS Applied Materials & Interfaces, 2018, 10, 29593-29598.	8.0	52
50	Phosphorus-Based Alloy Materials for Advanced Potassium-Ion Battery Anode. Journal of the American Chemical Society, 2017, 139, 3316-3319.	13.7	755
51	Large-scale synthesis of ternary Sn5SbP3/C composite by ball milling for superior stable sodium-ion battery anode. Electrochimica Acta, 2017, 235, 107-113.	5.2	45
52	Boosted Charge Transfer in SnS/SnO <sub>2</sub> Heterostructures: Toward High Rate Capability for Sodiumâ€ion Batteries. Angewandte Chemie, 2016, 128, 3469-3474.	2.0	116
53	Boosted Charge Transfer in SnS/SnO <sub>2</sub> Heterostructures: Toward High Rate Capability for Sodium″on Batteries. Angewandte Chemie - International Edition, 2016, 55, 3408-3413.	13.8	621
54	Building Self-Healing Alloy Architecture for Stable Sodium-Ion Battery Anodes: A Case Study of Tin Anode Materials. ACS Applied Materials & Interfaces, 2016, 8, 7147-7155.	8.0	92

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55	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825.	6.8	302
56	Superior Stable Selfâ€Healing SnP <sub>3</sub> Anode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500174.	19.5	197
57	Solid-State Fabrication of SnS <sub>2</sub> /C Nanospheres for High-Performance Sodium Ion Battery Anode. ACS Applied Materials & Interfaces, 2015, 7, 11476-11481.	8.0	176
58	Revisiting the Hydrogen Storage Behavior of the Na-O-H System. Materials, 2015, 8, 2191-2203.	2.9	18
59	Recent Advances in the Use of Sodium Borohydride as a Solid State Hydrogen Store. Energies, 2015, 8, 430-453.	3.1	97
60	Scalable synthesis of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C porous hollow spheres as a cathode for Na-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10378-10385.	10.3	109
61	Sodium borohydride hydrazinates: synthesis, crystal structures, and thermal decomposition behavior. Journal of Materials Chemistry A, 2015, 3, 11269-11276.	10.3	19
62	In situ formed carbon bonded and encapsulated selenium composites for Li–Se and Na–Se batteries. Journal of Materials Chemistry A, 2015, 3, 555-561.	10.3	115
63	Combined effects of hydrogen back-pressure andÂNbF5 addition on the dehydrogenation and rehydrogenation kinetics of the LiBH4–MgH2 composite system. International Journal of Hydrogen Energy, 2013, 38, 3650-3660.	7.1	41
64	Reversible storage of hydrogen in NaF–MB2 (M = Mg, Al) composites. Journal of Materials Chemistry A, 2013, 1, 2806.	10.3	13
65	Hydrogen De-/Absorption Improvement of NaBH4 Catalyzed by Titanium-Based Additives. Journal of Physical Chemistry C, 2012, 116, 1596-1604.	3.1	74
66	Enhanced hydrogen storage properties of NaAlH4co-catalysed with niobium fluoride and single-walled carbon nanotubes. RSC Advances, 2012, 2, 1569-1576.	3.6	25
67	A GBH/LiBH4 coordination system with favorable dehydrogenation. Journal of Materials Chemistry, 2011, 21, 7138.	6.7	27
68	Nanoconfinement of lithium borohydride in Cu-MOFs towards low temperature dehydrogenation. Dalton Transactions, 2011, 40, 5673.	3.3	64
69	Improved reversible dehydrogenation of 2LiBH <sub>4</sub> +MgH <sub>2</sub> system by introducing Ni nanoparticles. Journal of Materials Research, 2011, 26, 1143-1150.	2.6	18
70	Enhanced hydrogen sorption properties in the LiBH4–MgH2 system catalysed by Ru nanoparticles supported on multiwalled carbon nanotubes. Journal of Alloys and Compounds, 2011, 509, 5012-5016.	5.5	25
71	Improved hydrogen sorption performance of NbF5-catalysed NaAlH4. International Journal of Hydrogen Energy, 2011, 36, 14503-14511.	7.1	39
72	Improved Hydrogen Storage Properties of NaBH <sub>4</sub> Destabilized by CaH <sub>2</sub> and Ca(BH <sub>4</sub> ) <sub>2</sub> . Journal of Physical Chemistry C, 2011, 115, 9283-9290.	3.1	41

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73	Enhanced hydrogen storage performance of LiAlH4–MgH2–TiF3 composite. International Journal of Hydrogen Energy, 2011, 36, 5369-5374.	7.1	58
74	The hydrogen storage properties and reaction mechanism of the MgH 2 –NaAlH 4 composite system. International Journal of Hydrogen Energy, 2011, 36, 9045-9050.	7.1	85
75	Enhanced hydrogen sorption properties of Ni and Co-catalyzed MgH2. International Journal of Hydrogen Energy, 2010, 35, 4569-4575.	7.1	149
76	Reversible Hydrogen Storage in Destabilized LiAlH <sub>4</sub> â^'MgH <sub>2</sub> â^'LiBH <sub>4</sub> Ternary-Hydride System Doped with TiF <sub>3</sub> . Journal of Physical Chemistry C, 2010, 114, 11643-11649.	3.1	48
77	Study on the dehydrogenation kinetics and thermodynamics of Ca(BH4)2. Journal of Alloys and Compounds, 2010, 500, 200-205.	5.5	53
78	Improvement of the LiAlH4â^'NaBH4 System for Reversible Hydrogen Storage. Journal of Physical Chemistry C, 2009, 113, 10813-10818.	3.1	42
79	Enhanced hydrogen storage performances of NaBH4–MgH2 system. Journal of Alloys and Compounds, 2009, 479, 619-623.	5.5	93
80	Reversible hydrogen storage in titanium-catalyzed LiAlH4–LiBH4 system. Journal of Alloys and Compounds, 2009, 487, 434-438.	5.5	51
81	Application of commercial ferrovanadium to reduce cost of Ti–V-based BCC phase hydrogen storage alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 476, 34-38.	5.6	20
82	Improved Hydrogen Storage of LiBH <sub>4</sub> Catalyzed Magnesium. Journal of Physical Chemistry C, 2007, 111, 12495-12498.	3.1	58