

Jiantao T Han

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

5,611
citations

41
h-index

73
g-index

112
ext. papers

6,880
ext. citations

10.4
avg, IF

5.88
L-index

#	Paper	IF	Citations
103	Regulating solvation structure to stabilize zinc anode by fastening the free water molecules with an inorganic colloidal electrolyte. <i>Nano Energy</i> , 2022 , 93, 106839	17.1	13
102	Defective porous carbon microrods derived from fullerenes (C) as high-performance electrocatalysts for the oxygen reduction reaction.. <i>Nanoscale</i> , 2021 ,	7.7	1
101	Enabling Anionic Redox Stability of P2-Na Li Mn O by Mg Substitution.. <i>Advanced Materials</i> , 2021 , e2105404	10.4	9
100	Construction of an N-Decorated Carbon-Encapsulated WC/WP Heterostructure as an Efficient Electrocatalyst for Hydrogen Evolution in Both Alkaline and Acidic Media. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53955-53964	9.5	1
99	[email[protected]] Structured [email[protected]] Carbon as a Sulfur Host and Polysulfide Conversion Booster for Lithium/Sodium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3487-3494	6.1	6
98	Realization of a High-Voltage and High-Rate Nickel-Rich NCM Cathode Material for LIBs by Co and Ti Dual Modification. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17707-17716	9.5	12
97	Local Structures of Soft Carbon and Electrochemical Performance of Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28261-28269	9.5	5
96	Constructing Co-N-C Catalyst via a Double Crosslinking Hydrogel Strategy for Enhanced Oxygen Reduction Catalysis in Fuel Cells. <i>Small</i> , 2021 , 17, e2100735	11	11
95	N,S-Co-Doped Porous Carbon Nanofiber Films Derived from Fullerenes (C) as Efficient Electrocatalysts for Oxygen Reduction and a Zn-Air Battery. <i>Chemistry - A European Journal</i> , 2021 , 27, 1423-1429	4.8	8
94	Defect-free-induced Na ⁺ disordering in electrode materials. <i>Energy and Environmental Science</i> , 2021 , 14, 3130-3140	35.4	24
93	Hard carbon spheres prepared by a modified Stober method as anode material for high-performance potassium-ion batteries.. <i>RSC Advances</i> , 2021 , 11, 14883-14890	3.7	2
92	Boosting Li/Na storage performance of graphite by defect engineering.. <i>RSC Advances</i> , 2021 , 11, 22297-22304	3.7	1
91	An effective dual-modification strategy to enhance the performance of LiNiCoMnO cathode for Li-ion batteries. <i>Nanoscale</i> , 2021 , 13, 4670-4677	7.7	7
90	A High Rate and Stable Hybrid Li/Na-Ion Battery Based on a Hydrated Molten Inorganic Salt Electrolyte. <i>Small</i> , 2021 , 17, e2101650	11	4
89	Two Birds with One Stone: Boosting Zinc-Ion Insertion/Extraction Kinetics and Suppressing Vanadium Dissolution of VO via La Incorporation Enable Advanced Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38416-38424	9.5	15
88	Porous N, B co-doped carbon nanotubes as efficient metal-free electrocatalysts for ORR and Zn-air batteries. <i>Chemical Engineering Journal</i> , 2021 , 422, 130134	14.7	27
87	Electron density modulation of MoP by rare earth metal as highly efficient electrocatalysts for pH-universal hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 299, 120657	21.8	8

86	Inhibition of Manganese Dissolution in Mn ₂ O ₃ Cathode with Controllable Ni ²⁺ Incorporation for High-Performance Zinc Ion Battery. <i>Advanced Functional Materials</i> , 2021 , 31, 2009412	15.6	54
85	Enhanced Oxygen Evolution Reaction Activity by Encapsulating NiFe Alloy Nanoparticles in Nitrogen-Doped Carbon Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31503-31513	9.5	41
84	Bimetallic Co/Mo ₂ C Nanoparticles Embedded in 3D Hierarchical N-doped Carbon Heterostructures as Highly Efficient Electrocatalysts for Water Splitting. <i>ChemCatChem</i> , 2020 , 12, 3737-3745	5.2	10
83	Crystallization-induced ultrafast Na-ion diffusion in nickel hexacyanoferrate for high-performance sodium-ion batteries. <i>Nano Energy</i> , 2020 , 67, 104250	17.1	23
82	Accelerated polysulfide conversion on hierarchical porous vanadium-nitrogen-carbon for advanced lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 584-590	7.7	18
81	Atomic-Level Fe-N-C Coupled with Fe C-Fe Nanocomposites in Carbon Matrixes as High-Efficiency Bifunctional Oxygen Catalysts. <i>Small</i> , 2020 , 16, e1906057	11	50
80	Phase-transformed Mo ₄ P ₃ nanoparticles as efficient catalysts towards lithium polysulfide conversion for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2020 , 330, 135310	6.7	27
79	Hydrochloric acid corrosion induced bifunctional free-standing NiFe hydroxide nanosheets towards high-performance alkaline seawater splitting. <i>Nanoscale</i> , 2020 , 12, 21743-21749	7.7	17
78	Core@shell Sb@Sb ₂ O ₃ nanoparticles anchored on 3D nitrogen-doped carbon nanosheets as advanced anode materials for Li-ion batteries. <i>Nanoscale Advances</i> , 2020 , 2, 5578-5583	5.1	7
77	Local Structural Changes and Inductive Effects on Ion Conduction in Antiperovskite Solid Electrolytes. <i>Chemistry of Materials</i> , 2020 , 32, 8827-8835	9.6	8
76	Dual redox-active copper hexacyanoferrate nanosheets as cathode materials for advanced sodium-ion batteries. <i>Energy Storage Materials</i> , 2020 , 33, 432-441	19.4	10
75	Highly crystalline nickel hexacyanoferrate as a long-life cathode material for sodium-ion batteries.. <i>RSC Advances</i> , 2020 , 10, 27033-27041	3.7	11
74	Bifunctional Atomically Dispersed Mo-N/C Nanosheets Boost Lithium Sulfide Deposition/Decomposition for Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020 , 14, 10115-10126	16.7	52
73	Promoting C ₂ + Production from Electrochemical CO ₂ Reduction on Shape-Controlled Cuprous Oxide Nanocrystals with High-Index Facets. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15223-15229	8.3	18
72	Ultrathin and defect-rich intermetallic Pd ₂ Sn nanosheets for efficient oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15665-15669	13	28
71	In Situ Self-Assembly of Core-Shell Multimetal Prussian Blue Analogues for High-Performance Sodium-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 4786-4790	8.3	23
70	Elemental selenium enables enhanced water oxidation electrocatalysis of NiFe layered double hydroxides. <i>Nanoscale</i> , 2019 , 11, 17376-17383	7.7	23
69	Immobilizing an organic electrode material through Interaction for high-performance Li-organic batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22398-22404	13	13

68	3D hierarchical porous Co ₁₀ S@C derived from a ZIF-67 single crystals self-assembling superstructure with superior pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17248-17253 ¹³		23
67	High-performance single atom bifunctional oxygen catalysts derived from ZIF-67 superstructures. <i>Nano Energy</i> , 2019 , 61, 245-250	17.1	121
66	Sub-6 nm Fully Ordered L10-PtNiCo Nanoparticles Enhance Oxygen Reduction via Co Doping Induced Ferromagnetism Enhancement and Optimized Surface Strain. <i>Advanced Energy Materials</i> , 2019 , 9, 1803771	21.8	76
65	In Situ FTIR-Assisted Synthesis of Nickel Hexacyanoferrate Cathodes for Long-Life Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29985-29992	9.5	19
64	Tungsten-Doped L10-PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie</i> , 2019 , 131, 15617-15623	3.6	17
63	Tungsten-Doped L1 -PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15471-15477	16.4	62
62	Redox potential regulation toward suppressing hydrogen evolution in aqueous sodium-ion batteries: Na _{1.5} Ti _{1.5} Fe _{0.5} (PO ₄) ₃ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24953-24963	13	8
61	Ca-doped Na ₂ Zn ₂ TeO ₆ layered sodium conductor for all-solid-state sodium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 298, 121-126	6.7	25
60	F-Doped NaTi(PO) ₃ /C Nanocomposite as a High-Performance Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3116-3124	9.5	36
59	Novel Cerium Hexacyanoferrate(II) as Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 187-191	6.1	17
58	Structure Distortion Induced Monoclinic Nickel Hexacyanoferrate as High-Performance Cathode for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803158	21.8	54
57	New P2-Type Honeycomb-Layered Sodium-Ion Conductor: NaMgTeO. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15760-15766	9.5	30
56	Sodium Ion Batteries: A Dual-Insertion Type Sodium-Ion Full Cell Based on High-Quality Ternary-Metal Prussian Blue Analogs (Adv. Energy Mater. 11/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870048	21.8	3
55	Efficient entrapment and catalytic conversion of lithium polysulfides on hollow metal oxide submicro-spheres as lithium-sulfur battery cathodes. <i>Nanoscale</i> , 2018 , 10, 5634-5641	7.7	53
54	Rare Earth Ion-Doped CsPbBr ₃ Nanocrystals. <i>Advanced Optical Materials</i> , 2018 , 6, 1700864	8.1	87
53	A Dual-Insertion Type Sodium-Ion Full Cell Based on High-Quality Ternary-Metal Prussian Blue Analogs. <i>Advanced Energy Materials</i> , 2018 , 8, 1702856	21.8	98
52	High-Performance Hard Carbon Anode: Tunable Local Structures and Sodium Storage Mechanism. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2295-2305	6.1	41
51	Superior Na-ion storage achieved by Ti substitution in Na ₃ V ₂ (PO ₄) ₃ . <i>Energy Storage Materials</i> , 2018 , 15, 108-115	19.4	56

50	Nitrogen-doped carbon coated LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode with enhanced electrochemical performance for Li-Ion batteries. <i>Electrochimica Acta</i> , 2018 , 284, 526-533	6.7	27
49	Porous NaTi(PO) ₄ /C Hierarchical Nanofibers for Ultrafast Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27039-27046	9.5	41
48	Metal-Organic Framework Derived Honeycomb Co ₉ S ₈ @C Composites for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1801080	21.8	110
47	Hierarchical Cu doped SnSe nanoclusters as high-performance anode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 282, 973-980	6.7	32
46	A P2-Type Layered Superionic Conductor Ga-Doped Na Zn TeO for All-Solid-State Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 1057-1061	4.8	32
45	High valence Mo-doped Na ₃ V ₂ (PO ₄) ₃ /C as a high rate and stable cycle-life cathode for sodium battery. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1390-1396	13	85
44	Magnetic origin of phase stability in cubic δ -MoN. <i>Applied Physics Letters</i> , 2018 , 113, 221901	3.4	6
43	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Zn-Air Batteries: The Effect of Surface S Residues. <i>Advanced Materials</i> , 2018 , 30, e1800757 ²⁴	7.4	153
42	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. <i>Nature Communications</i> , 2018 , 9, 2499	17.4	60
41	Al doping effects on LiCrTiO ₄ as an anode for lithium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 4791-4797	3.7	13
40	Enhancing Sodium-Ion Storage Behaviors in TiNbO by Mechanical Ball Milling. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8696-8703	9.5	53
39	A Metal-Organic Compound as Cathode Material with Superhigh Capacity Achieved by Reversible Cationic and Anionic Redox Chemistry for High-Energy Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 6897-6901	3.6	30
38	Low-Cost and High-Performance Hard Carbon Anode Materials for Sodium-Ion Batteries. <i>ACS Omega</i> , 2017 , 2, 1687-1695	3.9	98
37	A Metal-Organic Compound as Cathode Material with Superhigh Capacity Achieved by Reversible Cationic and Anionic Redox Chemistry for High-Energy Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6793-6797	16.4	60
36	F-doped O ₃ -NaNi _{1/3} Fe _{1/3} Mn _{1/3} O ₂ as high-performance cathode materials for sodium-ion batteries. <i>Science China Materials</i> , 2017 , 60, 629-636	7.1	32
35	A new layered titanate Na ₂ Li ₂ Ti ₅ O ₁₂ as a high-performance intercalation anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22208-22215	13	13
34	Amorphous CoFeP nanospheres for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25378-25384	13	78
33	Graphene-Roll-Wrapped Prussian Blue Nanospheres as a High-Performance Binder-Free Cathode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25317-25322	9.5	50

- 32 Routes to High Energy Cathodes of Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1501727 21.8 331
- 31 High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. *Advanced Science*, **2016**, 3, 1600140 13.6 89
- 30 Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10456-61 11.5 28
- 29 Effects of Sr-site deficiency on structure and electrochemical performance in Sr₂MgMoO₆ for solid-oxide fuel cell. *Journal of Power Sources*, **2014**, 270, 441-448 8.9 30
- 28 High pressure-high temperature synthesis of lithium-rich Li₃O(Cl, Br) and Li₃Cax/2OCl anti-perovskite halides. *Inorganic Chemistry Communication*, **2014**, 48, 140-143 3.1 23
- 27 Unusual structural evolution in KCuF₃ at high temperatures by neutron powder diffraction. *Physical Review B*, **2013**, 87, 3.3 10
- 26 Polymer-assisted synthesis of LiNi_{2/3}Mn_{1/3}O₂ cathode material with enhanced electrochemical performance. *Journal of Alloys and Compounds*, **2013**, 559, 203-208 5.7 17
- 25 Ionic distribution and conductivity in lithium garnet Li₇La₃Zr₂O₁₂. *Journal of Power Sources*, **2012**, 209, 278-281 8.9 120
- 24 Nitrogen-doped graphene-rich catalysts derived from heteroatom polymers for oxygen reduction in nonaqueous lithium-O₂ battery cathodes. *ACS Nano*, **2012**, 6, 9764-76 16.7 443
- 23 Synthesis, Crystal Structure, and Elastic Properties of Novel Tungsten Nitrides. *Chemistry of Materials*, **2012**, 24, 3023-3028 9.6 127
- 22 Experimental visualization of lithium conduction pathways in garnet-type Li₇La₃Zr₂O₁₂. *Chemical Communications*, **2012**, 48, 9840-2 5.8 79
- 21 Superionic conductivity in lithium-rich anti-perovskites. *Journal of the American Chemical Society*, **2012**, 134, 15042-7 16.4 322
- 20 Li₆La₃SnMO₁₂ (M = Sb, Nb, Ta), a Family of Lithium Garnets with High Li-Ion Conductivity. *Journal of the Electrochemical Society*, **2012**, 159, A1148-A1151 3.9 17
- 19 Jahn-Teller distortion in perovskite KCuF₃ under high pressure. *Journal of Fluorine Chemistry*, **2011**, 132, 1117-1121 2.1 16
- 18 New Anode Framework for Rechargeable Lithium Batteries. *Chemistry of Materials*, **2011**, 23, 2027-2029 9.6 280
- 17 3-V Full Cell Performance of Anode Framework TiNb₂O₇/Spinel LiNi_{0.5}Mn_{1.5}O₄. *Chemistry of Materials*, **2011**, 23, 3404-3407 9.6 162
- 16 Redox Behaviors of Ni and Cr with Different Counter Cations in Spinel Cathodes for Li-Ion Batteries. *Journal of the Electrochemical Society*, **2010**, 157, A770 3.9 19
- 15 A new pnictide superconductor without iron. *Journal of the American Chemical Society*, **2010**, 132, 908-9 16.4 31

14	Structure, morphology, and cathode performance of $\text{Li}_{1-x}[\text{Ni}_{0.5}\text{Mn}_{1.5}]\text{O}_4$ prepared by coprecipitation with oxalic acid. <i>Journal of Power Sources</i> , 2010 , 195, 2918-2923	8.9	47
13	Lithium Ion Intercalation Performance of Niobium Oxides: $\text{KNb}_5\text{O}_{13}$ and $\text{K}_6\text{Nb}_{10.8}\text{O}_{30}$. <i>Chemistry of Materials</i> , 2009 , 21, 4753-4755	9.6	75
12	Access to $\text{M}^{3+}/\text{M}^{2+}$ Redox Couples in Layered LiMS_2 Sulfides (M=Ti, V, Cr) as Anodes for Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A703	3.9	40
11	Controllable synthesis and magnetic property of BiMn_2O_5 crystals. <i>Materials Research Bulletin</i> , 2008 , 43, 1702-1708	5.1	18
10	A novel photo-responsive organogel based on azobenzene. <i>Journal of Physical Organic Chemistry</i> , 2008 , 21, 338-343	2.1	32
9	Ultrasound switch and thermal self-repair of morphology and surface wettability in a cholesterol-based self-assembly system. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1063-7	16.4	158
8	Ultrasound Switch and Thermal Self-Repair of Morphology and Surface Wettability in a Cholesterol-Based Self-Assembly System. <i>Angewandte Chemie</i> , 2008 , 120, 1079-1083	3.6	46
7	Solvothermal synthesis and magnetic properties of pyrite $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$ with various morphologies. <i>Materials Letters</i> , 2006 , 60, 1805-1808	3.3	17
6	Tunable Synthesis of Bismuth Ferrites with Various Morphologies. <i>Advanced Materials</i> , 2006 , 18, 2145-2148	14.8	253
5	Selective synthesis of TbMn_2O_5 nanorods and TbMnO_3 micron crystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14454-5	16.4	55
4	Preparation and study of polyacrylamide-stabilized silver nanoparticles through a one-pot process. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11224-31	3.4	130
3	Synthesis and magnetic property of submicron $\text{Bi}_2\text{Fe}_4\text{O}_9$. <i>Journal of Crystal Growth</i> , 2006 , 294, 469-473	1.6	41
2	Sonocatalytic degradation of methyl orange in the presence of TiO_2 catalysts and catalytic activity comparison of rutile and anatase. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 331-7	8.9	159
1	Defect-rich N/S-co-doped porous hollow carbon nanospheres derived from fullerenes as efficient electrocatalysts for the oxygen-reduction reaction and Zn-air batteries. <i>Materials Chemistry Frontiers</i> ,	7.8	2