

Jiantao T Han

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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	Nitrogen-doped graphene-rich catalysts derived from heteroatom polymers for oxygen reduction in nonaqueous lithium-O ₂ battery cathodes. <i>ACS Nano</i> , 2012 , 6, 9764-76	16.7	443
102	Routes to High Energy Cathodes of Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1501727	21.8	331
101	Superionic conductivity in lithium-rich anti-perovskites. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15042-7	16.4	322
100	New Anode Framework for Rechargeable Lithium Batteries. <i>Chemistry of Materials</i> , 2011 , 23, 2027-2029	9.6	280
99	Tunable Synthesis of Bismuth Ferrites with Various Morphologies. <i>Advanced Materials</i> , 2006 , 18, 2145-2148	14.8	253
98	3-V Full Cell Performance of Anode Framework TiNb ₂ O ₇ /Spinel LiNi _{0.5} Mn _{1.5} O ₄ . <i>Chemistry of Materials</i> , 2011 , 23, 3404-3407	9.6	162
97	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
96	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
95	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	7.4	153
94	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
93	Synthesis, Crystal Structure, and Elastic Properties of Novel Tungsten Nitrides. <i>Chemistry of Materials</i> , 2012 , 24, 3023-3028	9.6	127
92	High-performance single atom bifunctional oxygen catalysts derived from ZIF-67 superstructures. <i>Nano Energy</i> , 2019 , 61, 245-250	17.1	121
91	Ionic distribution and conductivity in lithium garnet Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Journal of Power Sources</i> , 2012 , 209, 278-281	8.9	120
90	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
89	Low-Cost and High-Performance Hard Carbon Anode Materials for Sodium-Ion Batteries. <i>ACS Omega</i> , 2017 , 2, 1687-1695	3.9	98
88	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
87	High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. <i>Advanced Science</i> , 2016 , 3, 1600140	13.6	89

86	Rare Earth Ion-Doped CsPbBr ₃ Nanocrystals. <i>Advanced Optical Materials</i> , 2018 , 6, 1700864	8.1	87
85	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
84	Experimental visualization of lithium conduction pathways in garnet-type Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Chemical Communications</i> , 2012 , 48, 9840-2	5.8	79
83	Amorphous CoFe ₂ O ₄ nanospheres for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25378-25384	13	78
82	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
81	Lithium Ion Intercalation Performance of Niobium Oxides: KNb ₅ O ₁₃ and K ₆ Nb _{10.8} O ₃₀ . <i>Chemistry of Materials</i> , 2009 , 21, 4753-4755	9.6	75
80	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
79	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
78	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. <i>Nature Communications</i> , 2018 , 9, 2499	17.4	60
77	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
76	Selective synthesis of TbMn ₂ O ₅ nanorods and TbMnO ₃ micron crystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14454-5	16.4	55
75	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
74	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
73	Enhancing Sodium-Ion Storage Behaviors in TiNbO by Mechanical Ball Milling. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8696-8703	9.5	53
72	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
71	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
70	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
69	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

68	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
67	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
66	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
65	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
64	Porous NaTi(PO)/C Hierarchical Nanofibers for Ultrafast Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27039-27046	9.5	41
63	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
62	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
61	F-Doped NaTi(PO)/C Nanocomposite as a High-Performance Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3116-3124	9.5	36
60	F-doped $\text{O}_3\text{-NaNi}_{1/3}\text{Fe}_{1/3}\text{Mn}_{1/3}\text{O}_2$ as high-performance cathode materials for sodium-ion batteries. <i>Science China Materials</i> , 2017 , 60, 629-636	7.1	32
59	Hierarchical Cu doped SnSe nanoclusters as high-performance anode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 282, 973-980	6.7	32
58	A novel photo-responsive organogel based on azobenzene. <i>Journal of Physical Organic Chemistry</i> , 2008 , 21, 338-343	2.1	32
57	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
56	A new pnictide superconductor without iron. <i>Journal of the American Chemical Society</i> , 2010 , 132, 908-9	16.4	31
55	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
54	New P2-Type Honeycomb-Layered Sodium-Ion Conductor: NaMgTeO . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15760-15766	9.5	30
53	Effects of Sr-site deficiency on structure and electrochemical performance in $\text{Sr}_{2-x}\text{MgMoO}_6$ for solid-oxide fuel cell. <i>Journal of Power Sources</i> , 2014 , 270, 441-448	8.9	30
52	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10456-61	11.5	28
51	Ultrathin and defect-rich intermetallic Pd_2Sn nanosheets for efficient oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15665-15669	13	28

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	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
48	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
47	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
46	Defect-free-induced Na ⁺ disordering in electrode materials. <i>Energy and Environmental Science</i> , 2021 , 14, 3130-3140	35.4	24
45	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
44	Elemental selenium enables enhanced water oxidation electrocatalysis of NiFe layered double hydroxides. <i>Nanoscale</i> , 2019 , 11, 17376-17383	7.7	23
43	3D hierarchical porous Co _{1-x} S@C derived from a ZIF-67 single crystals self-assembling superstructure with superior pseudocapitance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17248-17253 ¹³		23
42	High pressure-high temperature synthesis of lithium-rich Li ₃ O(Cl, Br) and Li _{3-x} Cax/2OCl anti-perovskite halides. <i>Inorganic Chemistry Communication</i> , 2014 , 48, 140-143	3.1	23
41	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
40	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
39	Redox Behaviors of Ni and Cr with Different Counter Cations in Spinel Cathodes for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A770	3.9	19
38	Controllable synthesis and magnetic property of BiMn ₂ O ₅ crystals. <i>Materials Research Bulletin</i> , 2008 , 43, 1702-1708	5.1	18
37	Accelerated polysulfide conversion on hierarchical porous vanadium-nitrogen-carbon for advanced lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 584-590	7.7	18
36	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
35	Tungsten-Doped L ₁₀ -PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie</i> , 2019 , 131, 15617-15623	3.6	17
34	Polymer-assisted synthesis of LiNi _{2/3} Mn _{1/3} O ₂ cathode material with enhanced electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2013 , 559, 203-208	5.7	17
33	Li ₆ La ₃ SnMO ₁₂ (M = Sb, Nb, Ta), a Family of Lithium Garnets with High Li-Ion Conductivity. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1148-A1151	3.9	17

32	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
31	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
30	Novel Cerium Hexacyanoferrate(II) as Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 187-191	6.1	17
29	Jahn-Teller distortion in perovskite KCuF_3 under high pressure. <i>Journal of Fluorine Chemistry</i> , 2011 , 132, 1117-1121	2.1	16
28	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
27	Al doping effects on LiCrTiO_4 as an anode for lithium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 4791-4797	3.7	13
26	A new layered titanate $\text{Na}_2\text{Li}_2\text{Ti}_5\text{O}_{12}$ as a high-performance intercalation anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22208-22215	13	13
25	Immobilizing an organic electrode material through π -interaction for high-performance Li-organic batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22398-22404	13	13
24	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
23	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
22	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
21	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
20	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
19	Unusual structural evolution in KCuF_3 at high temperatures by neutron powder diffraction. <i>Physical Review B</i> , 2013 , 87,	3.3	10
18	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
17	Enabling Anionic Redox Stability of $\text{P}_2\text{-Na Li Mn O}$ by Mg Substitution.. <i>Advanced Materials</i> , 2021 , e2105404	14	9
16	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
15	Redox potential regulation toward suppressing hydrogen evolution in aqueous sodium-ion batteries: $\text{Na}_{1.5}\text{Ti}_{1.5}\text{Fe}_{0.5}(\text{PO}_4)_3$. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24953-24963	13	8

14	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
13	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
12	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
11	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
10	[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
9	Magnetic origin of phase stability in cubic δ -MoN. <i>Applied Physics Letters</i> , 2018 , 113, 221901	3.4	6
8	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
7	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
6	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
5	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
4	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
3	Defective porous carbon microrods derived from fullerenes (C) as high-performance electrocatalysts for the oxygen reduction reaction.. <i>Nanoscale</i> , 2021 ,	7.7	1
2	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
1	Boosting Li/Na storage performance of graphite by defect engineering.. <i>RSC Advances</i> , 2021 , 11, 22297-22304	3.7	1