

Shi Tao

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,162
citations

201385

27
h-index

138251

58
g-index

60
all docs

60
docs citations

60
times ranked

6956
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Atom Pt as Co-Catalyst for Enhanced Photocatalytic H ₂ Evolution. <i>Advanced Materials</i> , 2016, 28, 2427-2431.	11.1	1,156
2	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12465-12469.	7.2	356
3	Phase-Transformation Engineering in Cobalt Diselenide Realizing Enhanced Catalytic Activity for Hydrogen Evolution in an Alkaline Medium. <i>Advanced Materials</i> , 2016, 28, 7527-7532.	11.1	307
4	Electron-Doped 1T-MoS ₂ via Interface Engineering for Enhanced Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , 2017, 29, 4738-4744.	3.2	270
5	Cobalt nitrides as a class of metallic electrocatalysts for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 236-242.	3.0	243
6	Vertical 1T-MoS ₂ nanosheets with expanded interlayer spacing edged on a graphene frame for high rate lithium-ion batteries. <i>Nanoscale</i> , 2017, 9, 6975-6983.	2.8	158
7	Understanding Structure-Dependent Catalytic Performance of Nickel Selenides for Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 310-315.	5.5	155
8	Stable 1T-MoSe ₂ and Carbon Nanotube Hybridized Flexible Film: Binder-Free and High-Performance Li-Ion Anode. <i>ACS Nano</i> , 2017, 11, 6483-6491.	7.3	135
9	Nanoscale TiO ₂ membrane coating spinel LiNi _{0.5} Mn _{1.5} O ₄ cathode material for advanced lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 705, 413-419.	2.8	79
10	Sol-gel design strategy for embedded Na ₃ V ₂ (PO ₄) ₃ particles into carbon matrices for high-performance sodium-ion batteries. <i>Carbon</i> , 2016, 96, 1028-1033.	5.4	77
11	Detailed investigation of Na _{2.24} FePO ₄ CO ₃ as a cathode material for Na-ion batteries. <i>Scientific Reports</i> , 2014, 4, 4188.	1.6	75
12	Nano-sized FeSe ₂ anchored on reduced graphene oxide as a promising anode material for lithium-ion and sodium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 4225-4235.	1.7	74
13	NaBH ₄ induces a high ratio of Ni ³⁺ /Ni ²⁺ boosting OER activity of the NiFe LDH electrocatalyst. <i>RSC Advances</i> , 2020, 10, 33475-33482.	1.7	62
14	Core-shell structured SnSe@C microrod for Na-ion battery anode. <i>Journal of Energy Chemistry</i> , 2021, 55, 256-264.	7.1	61
15	Soybean roots-derived N, P Co-doped mesoporous hard carbon for boosting sodium and potassium-ion batteries. <i>Carbon</i> , 2021, 178, 233-242.	5.4	61
16	Three-dimensional hollow spheres of the tetragonal-spinel MgMn ₂ O ₄ cathode for high-performance magnesium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8210-8214.	5.2	52
17	A versatile strategy for ultrathin SnS ₂ nanosheets confined in a N-doped graphene sheet composite for high performance lithium and sodium-ion batteries. <i>Chemical Communications</i> , 2018, 54, 8379-8382.	2.2	43
18	Fabrication of graphene-encapsulated Na ₃ V ₂ (PO ₄) ₃ as high-performance cathode materials for sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 43591-43597.	1.7	39

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19	Atomically Intercalating Tin Ions into the Interlayer of Molybdenum Oxide Nanobelt toward Long-Cycling Lithium Battery. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 817-824.	2.1	39
20	Encapsulating Carbon-Coated MoS ₂ Nanosheets within a Nitrogen-Doped Graphene Network for High-Performance Potassium-Ion Storage. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901066.	1.9	36
21	MOFs derived Co ²⁺ S nanoparticles embedded in N-doped carbon nanosheets with improved electrochemical performance for lithium ion batteries. <i>Applied Surface Science</i> , 2019, 479, 693-699.	3.1	35
22	Structural investigation of metallic Ni nanoparticles with N-doped carbon for efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 429, 132122.	6.6	35
23	Design and synthesis of dendritic Co ₃ O ₄ @Co ₂ (CO ₃)(OH) ₂ nanoarrays on carbon cloth for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 12091-12102.	1.7	33
24	Phase Separations in LiFe _{1-x} Mn _x PO ₄ : A Random Stack Model for Efficient Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 796-803.	1.5	31
25	Porous CoP/C@MCNTs hybrid composite derived from metal-organic frameworks for high-performance lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 3273-3283.	1.7	29
26	Performance enhancement of Lithium-ion battery with LiFePO ₄ @C/RGO hybrid electrode. <i>Electrochimica Acta</i> , 2014, 144, 406-411.	2.6	27
27	Facile synthesis of tin phosphide/reduced graphene oxide composites as anode material for potassium-ion batteries. <i>Ionics</i> , 2019, 25, 4795-4803.	1.2	27
28	MnSe nanoparticles encapsulated into N-doped carbon fibers with a binder-free and free-standing structure for lithium ion batteries. <i>Ceramics International</i> , 2021, 47, 1429-1438.	2.3	27
29	Formation of graphene-encapsulated CoS ₂ hybrid composites with hierarchical structures for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 39427-39433.	1.7	26
30	Rational design of hierarchical FeSe ₂ encapsulated with bifunctional carbon cuboids as an advanced anode for sodium-ion batteries. <i>Nanoscale</i> , 2020, 12, 22210-22216.	2.8	26
31	Hierarchical Co ₂ P microspheres assembled from nanorods grown on reduced graphene oxide as anode material for Lithium-ion batteries. <i>Applied Surface Science</i> , 2018, 459, 665-671.	3.1	25
32	MOF-derived ultrasmall CoSe ₂ nanoparticles encapsulated by an N-doped carbon matrix and their superior lithium/sodium storage properties. <i>Chemical Communications</i> , 2020, 56, 9218-9221.	2.2	24
33	Facile synthesis silkworm-like Ni-rich layered LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ cathode material for lithium-ion batteries. <i>Materials Letters</i> , 2017, 201, 1-4.	1.3	23
34	Multiwalled carbon nanotube-modified Nb ₂ O ₅ with enhanced electrochemical performance for lithium-ion batteries. <i>Ceramics International</i> , 2018, 44, 23226-23231.	2.3	23
35	Ultrafine Co ₃ O ₄ Nanoparticles within Nitrogen-Doped Carbon Matrix Derived from Metal-Organic Complex for Boosting Lithium Storage and Oxygen Evolution Reaction. <i>Small</i> , 2019, 15, e1904260.	5.2	23
36	Lithium storage mechanisms of CdSe nanoparticles with carbon modification for advanced lithium ion batteries. <i>Chemical Communications</i> , 2019, 55, 2996-2999.	2.2	23

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37	Formation of Nitrogen-doped Carbon-Coated CoP Nanoparticles Embedded within Graphene Oxide for Lithium-ion Batteries Anode. <i>Energy Technology</i> , 2020, 8, 1901089.	1.8	22
38	Metal-organic framework-derived Ni ₂ P/nitrogen-doped carbon porous spheres for enhanced lithium storage. <i>Science China Materials</i> , 2020, 63, 1672-1682.	3.5	18
39	Insights into the Ti ⁴⁺ doping in P2-type Na _{0.67} Ni _{0.33} Mn _{0.52} Ti _{0.15} O ₂ for enhanced performance of sodium-ion batteries. <i>Journal of Materials Science and Technology</i> , 2021, 74, 230-236.	5.6	18
40	Enhanced electrochemical performance of MoO ₃ -coated LiMn ₂ O ₄ cathode for rechargeable lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2017, 199, 203-208.	2.0	17
41	<i>In situ</i> synthesis of ultrasmall MnO nanoparticles encapsulated by a nitrogen-doped carbon matrix for high-performance lithium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 9184-9187.	2.2	17
42	Metal-Organic-Framework-Derived FeSe ₂ @Carbon Embedded into Nitrogen-doped Graphene Sheets with Binary Conductive Networks for Rechargeable Batteries. <i>ChemElectroChem</i> , 2019, 6, 2805-2811.	1.7	17
43	Regulating the electronic structure of CoP nanoflowers by molybdenum incorporation for enhanced lithium and sodium storage. <i>Journal of Power Sources</i> , 2021, 500, 229975.	4.0	15
44	Graphite modified AlNbO ₄ with enhanced lithium ion storage behaviors and its electrochemical mechanism. <i>Materials Research Bulletin</i> , 2018, 97, 405-410.	2.7	14
45	Layered Li ₂ RuO ₃ @LiCoO ₂ composite as high-performance cathode materials for lithium-ion batteries. <i>Materials Letters</i> , 2016, 179, 34-37.	1.3	13
46	Ball-in-ball hierarchical design of P2-type layered oxide as high performance Na-ion battery cathodes. <i>Electrochimica Acta</i> , 2018, 265, 284-291.	2.6	12
47	Hierarchical Ni(HCO ₃) ₂ Nanosheets Anchored on Carbon Nanofibers as Binder-free Anodes for Lithium-ion Batteries. <i>Energy Technology</i> , 2019, 7, 1900094.	1.8	10
48	Co-precipitation synthesis and electrochemical properties of CrNbO ₄ anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2017, 196, 335-338.	1.3	9
49	Facile synthesis of CdCO ₃ cubic particles/graphene composite with enhanced electrochemical performance for lithium-ion batteries. <i>Materials Letters</i> , 2019, 236, 672-675.	1.3	9
50	One dimensional SbO ₂ /Sb ₂ O ₃ @NC microrod as anode for lithium-ion and sodium-ion batteries. <i>Nano Select</i> , 2021, 2, 425-432.	1.9	9
51	Dynamic structural evolution of oxygen vacancies in lithium rich layered composites cathodes for Li-ion batteries. <i>Materials Today Physics</i> , 2021, 18, 100403.	2.9	8
52	Nickel-salen as a model for bifunctional OER/UOR electrocatalysts: pyrolysis temperature-electrochemical activity interconnection. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1973-1983.	3.0	8
53	Facile synthesis of MTaO ₄ (M = Al, Cr and Fe) metal oxides and their application as anodes for lithium-ion batteries. <i>Ceramics International</i> , 2018, 44, 8827-8831.	2.3	7
54	The lithium ion storage performance of ZnSe particles with stable electrochemical reaction interfaces improved by carbon coating. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 152, 109987.	1.9	7

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55	Enhanced Electrochemical Performance of Ti-Doping Li _{1.15} Ni _{0.47} Sb _{0.38} O ₂ as Lithium-excess Cathode for Lithium-ion Batteries. Chinese Journal of Chemistry, 2017, 35, 1853-1860.		
56	Preparation and characterization of nano-sized FeTaO ₄ /graphite for lithium-ion batteries. Solid State Ionics, 2017, 313, 45-51.	1.3	5
57	Synergistic Effect on the Improved Electrochemical Performance in the Case of Fe ²⁺ /Cd ²⁺ /CO ₃ . Journal of Physical Chemistry C, 2019, 123, 19333-19339.	1.5	5
58	Long-range ordering and local structural disordering of BiAgSe ₂ and BiAgSeTe thermoelectrics. Physical Chemistry Chemical Physics, 2021, 23, 24328-24335.	1.3	1
59	Back Cover: Enhanced Electrochemical Performance of Ti-Doping Li _{1.15} Ni _{0.47} Sb _{0.38} O ₂ as Lithium-excess Cathode for Lithium-ion Batteries (Chin. J. Chem. 12/2017). Chinese Journal of Chemistry, 2017, 35, 1902-1902.	2.6	0
60	Potassium-ion Batteries: Encapsulating Carbon-Coated MoS ₂ Nanosheets within a Nitrogen-Doped Graphene Network for High-Performance Potassium-ion Storage (Adv. Mater. Interfaces) Tj ETQq0 0 0 rBT /Overl		