Renzong Hu

List of Publications by Year
in descending order

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Version: 2024-02-01

109 papers	8,585 citations	50244 46 h-index	43868 91 g-index
114 all docs	114 docs citations	114 times ranked	8573 citing authors

#	Article	IF	Citations
1	Understanding the Reversible Reactions of Liâ€N₂ Battery Catalyzed With SnO₂. Energy and Environmental Materials, 2023, 6, .	7.3	7
2	Sn Alloy and Graphite Addition to Enhance Initial Coulombic Efficiency and Cycling Stability of SiO Anodes for Liâ€Ion Batteries. Energy and Environmental Materials, 2022, 5, 353-359.	7.3	15
3	Tinâ€Based Anode Materials for Stable Sodium Storage: Progress and Perspective. Advanced Materials, 2022, 34, e2106895.	11.1	68
4	Boosting Reversibility and Stability of Li Storage in SnO₂â€“Mo Multilayers: Introduction of Interfacial Oxygen Redistribution. Advanced Materials, 2022, 34, e2106366.	11.1	23
5	Rationally integrated nickel sulfides for lithium storage: S/N co-doped carbon encapsulated NiS/Cu₂S with greatly enhanced kinetic property and structural stability. Inorganic Chemistry Frontiers, 2022, 9, 2023-2035.	3.0	15
6	Construction of SnS-Mo-graphene nanosheets composite for highly reversible and stable lithium/sodium storage. Journal of Materials Science and Technology, 2022, 121, 190-198.	5.6	11
7	Interface Modification and Halide Substitution To Achieve High Ionic Conductivity in LiBH₄-Based Electrolytes for all-Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 1260-1269.	4.0	9
8	Introducing NO₃^{â€“} into Carbonateâ€Based Electrolytes via Covalent Organic Framework to Incubate Stable Interface for Liâ€Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	29
9	Understanding the phenomenon of capacity increasing along cycles: in the case of an ultralong-life and high-rate SnSe-Mo-C anode for lithium storage. Journal of Energy Chemistry, 2022, , .	7.1	4
10	Insight into Reversible Conversion Reactions in SnO₂â€Based Anodes for Lithium Storage: A Review. Small, 2022, 18, e2201110.	5.2	40
11	MnO Stabilized in Carbonâ€Veiled Multivariate Manganese Oxides as Highâ€Performance Cathode Material for Aqueous Znâ€Ion Batteries. Energy and Environmental Materials, 2021, 4, 603-610.	7.3	36
12	Dualâ€Carbonâ€Confined SnS Nanostructure with High Capacity and Long Cycle Life for Lithiumâ€Ion Batteries. Energy and Environmental Materials, 2021, 4, 562-568.	7.3	24
13	Plasma assisted synthesis of LiNi0.6Co0.2Mn0.2O2 cathode materials with good cyclic stability at subzero temperatures. Journal of Energy Chemistry, 2021, 56, 46-55.	7.1	16
14	Recent development of Snâ€“Fe-based materials as a substitute for Snâ€“Coâ€“C anodes in Li-ion batteries: a review. Materials Chemistry Frontiers, 2021, 5, 1185-1204.	3.2	17
15	Boosted lithium storage cycling stability of TiP2 by in-situ partial self-decomposition and nano-spatial confinement. Journal of Power Sources, 2021, 485, 229337.	4.0	9
16	Stable Lithium Storage at Subzero Temperatures for Highâ€capacity Co₃O₄@graphene Composite Anodes. ChemNanoMat, 2021, 7, 61-70.	1.5	19
17	Microsized SnS/Fewâ€Layer Graphene Composite with Interconnected Nanosized Building Blocks for Superior Volumetric Lithium and Sodium Storage. Energy and Environmental Materials, 2021, 4, 229-238.	7.3	21
18	Ultrafine ZnS Nanoparticles in the Nitrogen-Doped Carbon Matrix for Long-Life and High-Stable Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11007-11017.	4.0	44

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19	Advances in Electrochemical Energy Devices Constructed with Tungsten Oxide-Based Nanomaterials. Nanomaterials, 2021, 11, 692.	1.9	20
20	Applications of Plasma-Assisted Systems for Advanced Electrode Material Synthesis and Modification. ACS Applied Materials & Interfaces, 2021, 13, 13909-13919.	4.0	24
21	An effective Ni(OH)2 optimization strategy via Cu2+ and Ni3+ co-doping for high capacity and long life-span lithium ion batteries. Ionics, 2021, 27, 2053-2066.	1.2	10
22	Subzero temperature promotes stable lithium storage in SnO2. Energy Storage Materials, 2021, 36, 242-250.	9.5	36
23	Li2CO3 induced stable SEI formation: An efficient strategy to boost reversibility and cyclability of Li storage in SnO2 anodes. Science China Materials, 2021, 64, 2683-2696.	3.5	17
24	Synthesis of amorphous SeP2/C composite by plasma assisted ball milling for high-performance anode materials of lithium and sodium-ion batteries. Progress in Natural Science: Materials International, 2021, 31, 567-574.	1.8	13
25	LiFâ€Induced Stable Solid Electrolyte Interphase for a Wide Temperature SnO₂â€Based Anode Extensible to â”50ÂÂ°C. Advanced Energy Materials, 2021, 11, 2101855.	10.2	20
26	Nanostructured Snâ€“Mo multilayer film anode with stable electrode-interfaces for long-cycle lithium storage. Journal of Power Sources, 2021, 509, 230391.	4.0	6
27	Constructing Liâ€Rich Artificial SEI Layer in Alloyâ€“Polymer Composite Electrolyte to Achieve High Ionic Conductivity for Allâ€Solidâ€State Lithium Metal Batteries. Advanced Materials, 2021, 33, e2004711.	11.1	82
28	Multiscale Observations of Inhomogeneous Bilayer SEI Film on a Conversionâ€Alloying SnO 2 Anode. Small Methods, 2021, 5, 2101111.	4.6	8
29	Tuning Inactive Phases in Siâ€“Tiâ€“B Ternary Alloy Anodes to Achieve Stable Cycling for High-Energy-Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 57317-57325.	4.0	7
30	Reversible formation of metastable Sn-rich solid solution in SnO2-based anode for high-performance lithium storage. Applied Materials Today, 2021, 25, 101242.	2.3	3
31	Engineering layer structure of MoS2/polyaniline/graphene nanocomposites to achieve fast and reversible lithium storage for high energy density aqueous lithium-ion capacitors. Journal of Power Sources, 2020, 450, 227680.	4.0	33
32	Good cycling stability and high initial efficiency demonstrated in full cells with limited lithium source for an advanced SnO2â€“Coâ€“C composite anode. Electrochimica Acta, 2020, 334, 135640.	2.6	11
33	A flexible composite solid electrolyte with a highly stable interphase for dendrite-free and durable all-solid-state lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 18043-18054.	5.2	77
34	InnenrÃ¼cktitelbild: Unveiling the Advances of Nanostructure Design for Alloyâ€Type Potassiumâ€Ion Battery Anodes via Inâ€…Situ TEM (Angew. Chem. 34/2020). Angewandte Chemie, 2020, 132, 14801-14801.	1.6	0
35	Unveiling the Advances of Nanostructure Design for Alloyâ€Type Potassiumâ€Ion Battery Anodes via Inâ€…Situ TEM. Angewandte Chemie - International Edition, 2020, 59, 14504-14510.	7.2	82
36	Unveiling the Advances of Nanostructure Design for Alloyâ€Type Potassiumâ€Ion Battery Anodes via Inâ€…Situ TEM. Angewandte Chemie, 2020, 132, 14612-14618.	1.6	47

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37	Excellent Cyclic and Rate Performances of SiO/C/Graphite Composites as Li-Ion Battery Anode. Frontiers in Chemistry, 2020, 8, 388.	1.8	15
38	Partial Atomic Tin Nanocomplex Pillared Few-Layered Ti3C2Tx MXenes for Superior Lithium-Ion Storage. Nano-Micro Letters, 2020, 12, 78.	14.4	68
39	Flowerlike Ti-Doped MoO₃ Conductive Anode Fabricated by a Novel NiTi Dealloying Method: Greatly Enhanced Reversibility of the Conversion and Intercalation Reaction. ACS Applied Materials & Interfaces, 2020, 12, 8240-8248.	4.0	13
40	Facile plasma treated Î²-MnO2@C hybrids for durable cycling cathodes in aqueous Zn-ion batteries. Journal of Alloys and Compounds, 2020, 827, 154273.	2.8	51
41	Regulating Lithium Nucleation and Deposition via MOFâ€Derived Co@Câ€Modified Carbon Cloth for Stable Li Metal Anode. Advanced Functional Materials, 2020, 30, 1909159.	7.8	170
42	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Liâ€“S Batteries. Small, 2020, 16, e1906634.	5.2	50
43	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. Chemical Engineering Journal, 2020, 387, 124061.	6.6	55
44	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 21586-21595.	4.0	46
45	Lithiumâ€“Sulfur Batteries: Selfâ€Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries (Adv. Mater. 33/2019). Advanced Materials, 2019, 31, 1970236.	11.1	8
46	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 8986-8996.	7.3	215
47	Plasma-assisted coating of nanosized SnO2 on LiNi0.5Co0.2Mn0.3O2 cathodes for enhanced cyclic stability of lithium-ion batteries. Journal of Alloys and Compounds, 2019, 803, 71-79.	2.8	33
48	A novel selenium-phosphorous amorphous composite by plasma assisted ball milling for high-performance rechargeable potassium-ion battery anode. Journal of Power Sources, 2019, 443, 227276.	4.0	36
49	Snâ€“C and Seâ€“C Co-Bonding SnSe/Few-Layered Graphene Microâ€“Nano Structure: Route to a Densely Compacted and Durable Anode for Lithium/Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 36685-36696.	4.0	83
50	Adding Metal Carbides to Suppress the Crystalline Li15Si4 Formation: A Route toward Cycling Durable Si-Based Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 38727-38736.	4.0	26
51	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O3-Type Cathode NaNi_{0.45â€“x}Mn_{0.25}Ti_{0.3}Co_xO₂ for Sodium-Ion Storage at High Voltage. ACS Applied Materials & Interfaces, 2019, 11, 7906-7913.	4.0	53
52	Nano-spatially confined and interface-controlled lithiationâ€“delithiation in an in situ formed (SnSâ€“SnS₂â€“S)/FLG composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 15320-15332.	5.2	32
53	Selfâ€Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Materials, 2019, 31, e1902228.	11.1	216
54	Plasma milling modified Sb2S3-graphite nanocomposite as a highly reversible alloying-conversion anode material for lithium storage. Electrochimica Acta, 2019, 310, 26-37.	2.6	23

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55	Na-Ion Batteries: A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock		
56	A General Metalâ€Organic Framework (MOF)â€Derived Selenidation Strategy for In Situ Carbonâ€Encapsulated Metal Selenides as Highâ€Rate Anodes for Naâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1707573.	7.8	325
57	Highly reversible conversion reaction in Sn2Fe@SiOx nanocomposite: A high initial Coulombic efficiency and long lifetime anode for lithium storage. Energy Storage Materials, 2018, 13, 257-266.	9.5	32
58	Nanoconfined Oxidation Synthesis of Nâ€Doped Carbon Hollow Spheres and MnO 2 Encapsulated Sulfur Cathode for Superior Liâ€S Batteries. Chemistry - A European Journal, 2018, 24, 4472-4472.	1.7	1
59	Enabling a highly reversible conversion reaction in a lithiated nano-SnO₂ film coated with Al₂O₃ by atomic layer deposition. Journal of Materials Chemistry A, 2018, 6, 4374-4385.	5.2	26
60	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO2 nanocrystals. Nano Energy, 2018, 45, 255-265.	8.2	80
61	Oxygen-Incorporated and Polyaniline-Intercalated 1T/2H Hybrid MoS2 Nanosheets Arrayed on Reduced Graphene Oxide for High-Performance Supercapacitors. Journal of Physical Chemistry C, 2018, 122, 8128-8136.	1.5	32
62	Sandwiched MoS2/polyaniline nanosheets array vertically aligned on reduced graphene oxide for high performance supercapacitors. Electrochimica Acta, 2018, 270, 387-394.	2.6	64
63	A scalable ternary SnO₂â€“Coâ€“C composite as a high initial coulombic efficiency, large capacity and long lifetime anode for lithium ion batteries. Journal of Materials Chemistry A, 2018, 6, 7206-7220.	5.2	74
64	Nanoconfined Oxidation Synthesis of Nâ€Doped Carbon Hollow Spheres and MnO₂ Encapsulated Sulfur Cathode for Superior Liâ€S Batteries. Chemistry - A European Journal, 2018, 24, 4573-4582.	1.7	34
65	Li-Ion Batteries: FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries (Small 30/2018). Small, 2018, 14, 1870138.	5.2	1
66	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for Highâ€Performance Liâ€Ion Batteries. Small, 2018, 14, e1800793.	5.2	94
67	Toward cyclic durable core/shell nanostructure of Sn-C composite anodes for stable lithium storage by simulating its lithiation-induced internal strain. Journal of Alloys and Compounds, 2017, 704, 348-358.	2.8	4
68	Stabilizing the Nanostructure of SnO₂ Anodes by Transition Metals: A Route to Achieve High Initial Coulombic Efficiency and Stable Capacities for Lithium Storage. Advanced Materials, 2017, 29, 1605006.	11.1	306
69	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolkâ€“Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. Nano Letters, 2017, 17, 2034-2042.	4.5	386
70	Hierarchical nanoflowers assembled from MoS 2 /polyaniline sandwiched nanosheets for high-performance supercapacitors. Electrochimica Acta, 2017, 243, 98-104.	2.6	56
71	Surface Modification of Na₃V₂(PO₄)₃ by Nitrogen and Sulfur Dual-Doped Carbon Layer with Advanced Sodium Storage Property. ACS Applied Materials & Interfaces, 2017, 9, 13151-13162.	4.0	103
72	Facile synthesis of self-supported Mn₃O₄@C nanotube arrays constituting an ultrastable and high-rate anode for flexible Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 8555-8565.	5.2	41

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73	Origin of Capacity Increasing in a Longâ€Life Ternary Snâ€“Fe₃O₄@Graphite Anode for Liâ€Ion Batteries. Advanced Materials Interfaces, 2017, 4, 1700113.	1.9	43
74	Selfâ€Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Longâ€Life Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 5198-5204.	1.7	75
75	A highly stable (SnO x -Sn)@few layered graphene composite anode of sodium-ion batteries synthesized by oxygen plasma assisted milling. Journal of Power Sources, 2017, 350, 1-8.	4.0	74
76	Metalâ€“Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 2516-2525.	4.0	116
77	Inhibiting grain coarsening and inducing oxygen vacancies: the roles of Mn in achieving a highly reversible conversion reaction and a long life SnO₂â€“Mnâ€“graphite ternary anode. Energy and Environmental Science, 2017, 10, 2017-2029.	15.6	152
78	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. ACS Nano, 2017, 11, 9033-9040.	7.3	247
79	Ultrathin N-Doped Mo₂C Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. ACS Nano, 2017, 11, 12509-12518.	7.3	350
80	Zn/MnO₂ Battery Chemistry With H⁺ and Zn²⁺ Coinsertion. Journal of the American Chemical Society, 2017, 139, 9775-9778.	6.6	1,375
81	Inhibiting Sn coarsening to enhance the reversibility of conversion reaction in lithiated SnO2 anodes by application of super-elastic NiTi films. Acta Materialia, 2016, 109, 248-258.	3.8	54
82	A spherical Snâ€“Fe₃O₄@graphite composite as a long-life and high-rate-capability anode for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 10321-10328.	5.2	63
83	Hierarchical MoO₂/Mo₂C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 19987-19993.	4.0	92
84	Mesoporous Mo₂C/N-doped carbon heteronanowires as high-rate and long-life anode materials for Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 10842-10849.	5.2	143
85	Uniform Hierarchical Fe₃O₄@Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. Advanced Energy Materials, 2016, 6, 1600256.	10.2	184
86	Dramatically enhanced reversibility of Li₂O in SnO₂-based electrodes: the effect of nanostructure on high initial reversible capacity. Energy and Environmental Science, 2016, 9, 595-603.	15.6	300
87	Improved coulombic efficiency and cycleability of SnO₂â€“Cuâ€“graphite composite anode with dual scale embedding structure. RSC Advances, 2016, 6, 13384-13391.	1.7	17
88	Silicon/Wolfram Carbide@Graphene composite: enhancing conductivity and structure stability in amorphous-silicon for high lithium storage performance. Electrochimica Acta, 2016, 191, 462-472.	2.6	32
89	A long-life nano-silicon anode for lithium ion batteries: supporting of graphene nanosheets exfoliated from expanded graphite by plasma-assisted milling. Electrochimica Acta, 2016, 187, 1-10.	2.6	89
90	Nanoscale Surface Modification of Lithiumâ€Rich Layeredâ€Oxide Composite Cathodes for Suppressing Voltage Fade. Angewandte Chemie - International Edition, 2015, 54, 13058-13062.	7.2	331

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91	Deformable fibrous carbon supported ultrafine nano-SnO₂ as a high volumetric capacity and cyclic durable anode for Li storage. Journal of Materials Chemistry A, 2015, 3, 15097-15107.	5.2	46
92	Co-electrolysis of H₂O and CO₂in a solid oxide electrolysis cell with hierarchically structured porous electrodes. Journal of Materials Chemistry A, 2015, 3, 15913-15919.	5.2	41
93	Cu6Sn5@SnO2â€“C nanocomposite with stable core/shell structure as a high reversible anode for Li-ion batteries. Nano Energy, 2015, 18, 232-244.	8.2	56
94	Facile synthesis of Ge@FLG composites by plasma assisted ball milling for lithium ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 11280-11285.	5.2	74
95	Embedding nano-silicon in graphene nanosheets by plasma assisted milling for high capacity anode materials in lithium ion batteries. Journal of Power Sources, 2014, 268, 610-618.	4.0	110
96	Flexible wire-like all-carbon supercapacitors based on porous coreâ€“shell carbon fibers. Journal of Materials Chemistry A, 2014, 2, 7250-7255.	5.2	91
97	Silicon/graphene based nanocomposite anode: large-scale production and stable high capacity for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 9118-9125.	5.2	131
98	The fast filling of nano-SnO2 in CNTs by vacuum absorption: a new approach to realize cyclic durable anodes for lithium ion batteries. Nanoscale, 2013, 5, 11971.	2.8	86
99	Sn@SnOx/C nanocomposites prepared by oxygen plasma-assisted milling as cyclic durable anodes for lithium ion batteries. Journal of Power Sources, 2013, 242, 114-121.	4.0	94
100	Influence of Sn content on microstructure and electrochemical properties of Snâ€“NiTi film anodes in lithium ion batteries. Journal of Power Sources, 2013, 244, 456-462.	4.0	11
101	Microsized Sn supported by NiTi alloy as a high-performance film anode for Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 9539.	6.7	23
102	Enhancing the performance of Snâ€“C nanocomposite as lithium ion anode by discharge plasma assisted milling. Journal of Materials Chemistry, 2012, 22, 8022.	6.7	44
103	An amorphous wrapped nanorod LiV3O8 electrode with enhanced performance for lithium ion batteries. RSC Advances, 2012, 2, 7273.	1.7	37
104	Sn buffered by shape memory effect of NiTi alloys as high-performance anodes for lithium ion batteries. Acta Materialia, 2012, 60, 4695-4703.	3.8	53
105	Progress on Sn-based thin-film anode materials for lithium-ion batteries. Science Bulletin, 2012, 57, 4119-4130.	1.7	53
106	Core/shell and multi-scale structures enhance the anode performance of a Snâ€“Câ€“Ni composite thin film in a lithium ion battery. Journal of Materials Chemistry, 2011, 21, 4629.	6.7	36
107	Microstructure and electrochemical performance of thin film anodes for lithium ion batteries in immiscible Alâ€“Sn system. Journal of Power Sources, 2009, 188, 268-273.	4.0	49
108	Influences of Composition on the Electrochemical Performance in Immiscible Snâ^'Al Thin Films as Anodes for Lithium Ion Batteries. Journal of Physical Chemistry C, 2009, 113, 18953-18961.	1.5	26

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109	Doubleâ€Network Ionogel Electrolyte with Superior Mechanical Performance and High Safety for Flexible Lithiumâ€Ion Batteries. ChemElectroChem, 0, , .	1.7	2