

Metallic Sn-Based Anode Materials: Application in High-Capacity Sodium-Ion Batteries

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Metallic Sn-Based Anode Materials: Application in High-Performance Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Science</i> , 2017, 4, 1700298.	5.6	315
2	Oxidized Co-Sn nanoparticles as long-lasting anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 3777-3783.	2.8	25
3	Carbon and Carbon Hybrid Materials as Anodes for Sodium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1248-1265.	1.7	42
4	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO ₂ nanocrystals. <i>Nano Energy</i> , 2018, 45, 255-265.	8.2	80
5	Carbon-encapsulated 1D SnO ₂ /NiO heterojunction hollow nanotubes as high-performance anodes for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 348, 599-607.	6.6	63
6	Direct synthesis of 3D hierarchically porous carbon/Sn composites <i>via in situ</i> generated NaCl crystals as templates for potassium-ion batteries anode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 434-442.	5.2	194
7	Tungsten-Based Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707500.	7.8	114
8	N-Doped Carbon-Coated Ni _{1.8} Co _{1.2} Se ₄ Nanoaggregates Encapsulated in N-Doped Carbon Nanoboxes as Advanced Anode with Outstanding High-Rate and Low-Temperature Performance for Sodium-Ion Half/Full Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1805444.	7.8	228
9	Sn-based Intermetallic Compounds for Li-Ion Batteries: Structures, Lithiation Mechanism, and Electrochemical Performances. <i>Energy and Environmental Materials</i> , 2018, 1, 132-147.	7.3	68
10	A Robust Integrated SnO _x /Carbon Composite Anode for Sodium-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 10869-10874.	0.7	7
11	Rational Design of Core-Shell-Structured Particles by a One-Step and Template-Free Process for High-Performance Lithium/Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22232-22240.	1.5	10
12	SnP ₂ O ₇ Covered Carbon Nanosheets as a Long-Life and High-Rate Anode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804672.	7.8	84
13	2D-Pnictogens: alloy-based anode battery materials with ultrahigh cycling stability. <i>Chemical Society Reviews</i> , 2018, 47, 6964-6989.	18.7	100
14	Dual phase enhanced superior electrochemical performance of nanoporous bismuth-tin alloy anodes for magnesium-ion batteries. <i>Energy Storage Materials</i> , 2018, 14, 351-360.	9.5	80
15	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. <i>Energy Storage Materials</i> , 2019, 18, 366-374.	9.5	101
16	Facile hydrogel-derived sub-10 nm tin-iron alloy embedded in 3D carbon nanocorals with improved cycle life and rate capability. <i>Ionics</i> , 2019, 25, 5287-5295.	1.2	2
17	A long-cycling anode based on a coral-like Sn nanostructure with a binary binder. <i>Chemical Communications</i> , 2019, 55, 10460-10463.	2.2	10
18	Double-shelled hollow carbon spheres confining tin as high-performance electrodes for lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 321, 134672.	2.6	42

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19	Sn nanocrystals embedded in porous TiO ₂ /C with improved capacity for sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2675-2681.	3.0	13
20	Crumpled Nitrogen-Doped Graphene-Wrapped Phosphorus Composite as a Promising Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30858-30864.	4.0	50
21	Tin Oxide Based Nanomaterials and Their Application as Anodes in Lithium-Ion Batteries and Beyond. <i>ChemSusChem</i> , 2019, 12, 4140-4159.	3.6	82
22	Reactive and Nonreactive Ball Milling of Tin-Antimony (Sn-Sb) Composites and Their Use as Electrodes for Sodium-Ion Batteries with Glyme Electrolyte. <i>Energy Technology</i> , 2019, 7, 1900389.	1.8	22
23	Nanostructured FeSn ₂ /SnO ₂ -based composites as high-performance anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 803, 80-87.	2.8	7
24	Silicon Oxycarbide-Tin Nanocomposite as a High-Power-Density Anode for Li-Ion Batteries. <i>Advanced Science</i> , 2019, 6, 1901220.	5.6	30
25	Sodium-ion battery anodes: Status and future trends. <i>EnergyChem</i> , 2019, 1, 100012.	10.1	217
26	Hierarchical Sulfur-Doped Graphene Foam Embedded with Sn Nanoparticles for Superior Lithium Storage in LiFSI-Based Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30500-30507.	4.0	27
27	Tin nanoparticles embedded in a carbon buffer layer as preferential nucleation sites for stable sodium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23747-23755.	5.2	77
28	Application of Sn-Ni Alloy as an Anode for Lithium-Ion Capacitors with Improved Volumetric Energy and Power Density. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3615-A3619.	1.3	11
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30	ZnSnSb ₂ anode: A solid solution behavior enabling high rate capability in Li-ion batteries. <i>Journal of Power Sources</i> , 2019, 441, 227165.	4.0	7
31	Superior Cycling and Rate Performance of Micron-Sized Tin Using Aqueous-Based Binder as a Sustainable Anode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1900849.	1.8	4
32	High-performance tin-titanium thin-film anodes prepared by magnetron co-sputtering for lithium-ion microbatteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2835-2841.	1.2	3
33	Co-Sn Nanocrystalline Solid Solutions as Anode Materials in Lithium-Ion Batteries with High Pseudocapacitive Contribution. <i>ChemSusChem</i> , 2019, 12, 1451-1458.	3.6	38
34	Core-Shell Structure of SnO ₂ @C/PEDOT:PSS Microspheres with Dual Protection Layers for Enhanced Lithium Storage Performance. <i>ChemElectroChem</i> , 2019, 6, 2182-2188.	1.7	10
35	Exploring the sodium ion storage mechanism of gallium sulfide (Ga ₂ S ₃): a combined experimental and theoretical approach. <i>Nanoscale</i> , 2019, 11, 3208-3215.	2.8	24
36	Dual-carbon confined SnO ₂ as ultralong-life anode for Li-ion batteries. <i>Ceramics International</i> , 2019, 45, 7830-7838.	2.3	31

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37	In-situ fabrication of heterostructured SnOx@C/rGO composite with durable cycling life for improved lithium storage. <i>Ceramics International</i> , 2019, 45, 18743-18750.	2.3	11
38	A Confined Replacement Synthesis of Bismuth Nanodots in MOF Derived Carbon Arrays as Binder-Free Anodes for Sodium-Ion Batteries. <i>Advanced Science</i> , 2019, 6, 1900162.	5.6	90
39	Enhancement Effects of Co Doping on Interfacial Properties of Sn Electrode Collector: A First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24648-24658.	4.0	19
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41	Vanadium-based polyoxometalate as electron/ion sponge for lithium-ion storage. <i>Journal of Power Sources</i> , 2019, 435, 226702.	4.0	30
42	Heterostructured SnO ₂ -SnS ₂ @C Embedded in Nitrogen-Doped Graphene as a Robust Anode Material for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 339.	1.8	27
43	Surface-Modified Tin Nanoparticles and Their Electrochemical Performance in Lithium Ion Battery Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 3577-3589.	2.4	19
44	Tin-based nanomaterials: colloidal synthesis and battery applications. <i>Chemical Communications</i> , 2019, 55, 8683-8694.	2.2	18
45	Polyanions Enhance Conversion Reactions for Lithium/Sodium-Ion Batteries: The Case of SbVO ₄ Nanoparticles on Reduced Graphene Oxide. <i>Small Methods</i> , 2019, 3, 1900231.	4.6	31
46	Simultaneous Realization of Direct Photoinduced Deposition and Improved H ₂ -Evolution Performance of Sn-Nanoparticle-Modified TiO ₂ Photocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10084-10094.	3.2	81
47	Electrospun Co/Co ₃ SnCO ₇ @N-CNFs as free-standing anode for advanced lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 793, 646-652.	2.8	8
48	Nitrogen-Doped Carbon-Encapsulated Antimony Sulfide Nanowires Enable High Rate Capability and Cyclic Stability for Sodium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019, 2, 1457-1465.	2.4	40
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50	Sodium Storage and Electrode Dynamics of Tin-Carbon Composite Electrodes from Bulk Precursors for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900790.	7.8	107
51	Sodium Metal Anodes: Emerging Solutions to Dendrite Growth. <i>Chemical Reviews</i> , 2019, 119, 5416-5460.	23.0	572
52	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019, 31, e1806532.	11.1	172
53	Niobium-Based Oxides Toward Advanced Electrochemical Energy Storage: Recent Advances and Challenges. <i>Small</i> , 2019, 15, e1804884.	5.2	130
54	Chemical-enzymatic fractionation to unlock the potential of biomass-derived carbon materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26954-26965.	5.2	41

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55	Hydrogel-derived foams of nitrogen-doped carbon loaded with Sn nanodots for high-mass-loading Na-ion storage. <i>Energy Storage Materials</i> , 2019, 16, 519-526.	9.5	47
56	Sn@C evolution from yolk-shell to core-shell in carbon nanofibers with suppressed degradation of lithium storage. <i>Energy Storage Materials</i> , 2019, 18, 229-237.	9.5	18
57	Encapsulating highly crystallized mesoporous Fe ₃ O ₄ in hollow N-doped carbon nanospheres for high-capacity long-life sodium-ion batteries. <i>Nano Energy</i> , 2019, 56, 426-433.	8.2	111
58	Review and prospect of Li ₂ ZnTi ₃ O ₈ -based anode materials for Li-ion battery. <i>Ionics</i> , 2019, 25, 373-397.	1.2	20
59	Sn-based submicron-particles encapsulated in porous reduced graphene oxide network: Advanced anodes for high-rate and long life potassium-ion batteries. <i>Applied Materials Today</i> , 2019, 15, 58-66.	2.3	69
60	Carbon particles modified macroporous Si/Ni composite as an advanced anode material for lithium ion batteries. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1078-1087.	3.8	22
61	Lithiation-induced interfacial failure of electrode-collector: A first-principles study. <i>Materials Chemistry and Physics</i> , 2019, 222, 193-199.	2.0	9
62	Crystalline Sb or Bi in amorphous Ti-based oxides as anode materials for sodium storage. <i>Chemical Engineering Journal</i> , 2020, 380, 122624.	6.6	22
63	Fe ₃ SnC@CNF: A 3D Antiperovskite Intermetallic Carbide System as a New Robust High-Capacity Lithium-Ion Battery Anode. <i>ChemSusChem</i> , 2020, 13, 196-204.	3.6	11
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65	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4414-4422.	4.0	46
66	Mechanochemically synthesized Cu ₃ P/C composites as a conversion electrode for Li-ion and Na-ion batteries in different electrolytes. <i>Journal of Power Sources Advances</i> , 2020, 6, 100031.	2.6	7
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70	Recent Developments of Nanomaterials and Nanostructures for High-Rate Lithium Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 5361-5407.	3.6	46
71	Suppression of formation of lithium dendrite via surface modification by 2-D lithium phosphorous oxynitride as a highly stable anode for metal lithium batteries. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156280.	2.8	8
72	Insights into the enhanced sodium storage property and kinetics based on the Zr/Si codoped Na ₃ V ₂ (PO ₄) ₃ /C cathode with superior rate capability and long lifespan. <i>Journal of Power Sources</i> , 2020, 474, 228632.	4.0	39

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74	Recent advances and perspectives of 2D silicon: Synthesis and application for energy storage and conversion. <i>Energy Storage Materials</i> , 2020, 32, 115-150.	9.5	74
75	N-doped carbon-coated ultrasmall Nb ₂ O ₅ nanocomposite with excellent long cyclability for sodium storage. <i>Nanoscale</i> , 2020, 12, 18673-18681.	2.8	18
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77	Dual Buffering Inverse Design of Three-Dimensional Graphene-Supported SnTiO ₂ Anodes for Durable Lithium-Ion Batteries. <i>Small</i> , 2020, 16, 2004861.	5.2	13
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80	<i>in Operando</i> X-ray Studies of High-Performance Lithium-Ion Storage in Keplerate-Type Polyoxometalate Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40296-40309.	4.0	17
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82	Rational Design of Pillared SnS/Ti ₃ C ₂ T _x MXene for Superior Lithium-Ion Storage. <i>ACS Nano</i> , 2020, 14, 17665-17674.	7.3	93
83	Carbon-Coated Self-Assembled Ultrathin T-Nb ₂ O ₅ Nanosheets for High-Rate Lithium-Ion Storage with Superior Cycling Stability. <i>ACS Applied Energy Materials</i> , 2020, 3, 12037-12045.	2.5	26
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89	Nanospace-Confinement Synthesis: Designing High-Energy Anode Materials toward Ultrastable Lithium-Ion Batteries. <i>Small</i> , 2020, 16, e2002351.	5.2	13
90	Rapid preparation of ultra-fine and well-dispersed SnO ₂ nanoparticles via a double hydrolysis reaction for lithium storage. <i>Nanoscale</i> , 2020, 12, 15697-15705.	2.8	12

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92	Investigation on synthesis of SnO ₂ nano-particles using sol-gel process for energy storage application. Australian Journal of Electrical and Electronics Engineering, 2020, 17, 114-121.	0.7	0
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94	Tin asymmetric membranes for high capacity sodium ion battery anodes. Materials Today Communications, 2020, 24, 100998.	0.9	1
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100	Recent progress on metallic Sn- and Sb-based anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 2913-2933.	5.2	91
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103	Hollow Bio-derived Polymer Nanospheres with Ordered Mesopores for Sodium-Ion Battery. Nano-Micro Letters, 2020, 12, 31.	14.4	19
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113	Atomic Layer Deposition of High-Capacity Anodes for Next-Generation Lithium-Ion Batteries and Beyond. <i>Energy and Environmental Materials</i> , 2021, 4, 363-391.	7.3	43
114	Disodium-Substituted Tetrahydroxybenzoquinone Salt as an Organic Electrode for High-Performance Lithium-Ion Batteries. <i>Energy Technology</i> , 2021, 9, 2000840.	1.8	2
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134	Concurrent diffusion and creep in lithium-ion batteries. <i>Mechanics of Materials</i> , 2021, 155, 103731.	1.7	1
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