

# Nanowires for Electrochemical Energy Storage

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Copper Silicide Nanowires as Hosts for Amorphous Si Deposition as a Route to Produce High Capacity Lithium-Ion Battery Anodes. <i>Nano Letters</i> , 2019, 19, 8829-8835.	4.5	32
2	Metal-Organic Framework-Based Materials for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2020, 5, 520-532.	8.8	312
3	Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Li-S Batteries. <i>Nano Letters</i> , 2020, 20, 1252-1261.	4.5	394
4	Ultrasensitive aptamer-based protein assays based on one-dimensional core-shell nanozymes. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111881.	5.3	84
5	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. <i>Advanced Energy Materials</i> , 2020, 10, 2001873.	10.2	40
6	Sulfiphilic FeP/rGO as a highly efficient sulfur host for propelling redox kinetics toward stable lithium-sulfur battery. <i>Electrochimica Acta</i> , 2020, 364, 137117.	2.6	58
7	High-performance all-inorganic portable electrochromic Li-ion hybrid supercapacitors toward safe and smart energy storage. <i>Energy Storage Materials</i> , 2020, 33, 258-267.	9.5	45
8	Durable Supercapattery Film with Dual-Branched Dense Hexagonal Fe(II)-Based Coordination Nanosheets for Flexible Power Sources. <i>ACS Applied Energy Materials</i> , 2020, 3, 10653-10659.	2.5	8
9	Atomic Layer Deposition-Derived Nanomaterials: Oxides, Transition Metal Dichalcogenides, and Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 9056-9077.	3.2	25
10	Self-assembled materials for electrochemical energy storage. <i>MRS Bulletin</i> , 2020, 45, 815-822.	1.7	7
11	Status and prospects of porous graphene networks for lithium-sulfur batteries. <i>Materials Horizons</i> , 2020, 7, 2487-2518.	6.4	63
12	Construction of an Electron Bridge in Polyoxometalates/Graphene Oxide Ultrathin Nanosheets To Boost the Lithium Storage Performance. <i>Energy &amp; Fuels</i> , 2020, 34, 16968-16977.	2.5	11
13	Advanced energy materials for flexible batteries in energy storage: A review. <i>SmartMat</i> , 2020, 1, .	6.4	186
14	A Copper Silicide Nanofoam Current Collector for Directly Grown Si Nanowire Networks and their Application as Lithium-Ion Anodes. <i>Advanced Functional Materials</i> , 2020, 30, 2003278.	7.8	57
15	Interface Engineering of Hierarchical MoS <sub>2</sub> /ZnS/C Heterostructures as Anode Materials for Highly Improved Lithium Storage Capability. <i>ACS Applied Energy Materials</i> , 2020, 3, 7856-7864.	2.5	11
16	Towards high energy density Li-S batteries with high sulfur loading: From key issues to advanced strategies. <i>Energy Storage Materials</i> , 2020, 32, 320-355.	9.5	64
17	Multi-dimensional hybrid heterostructure MoS <sub>2</sub> @C nanocomposite as a highly reversible anode for high-energy lithium-ion capacitors. <i>Applied Surface Science</i> , 2020, 531, 147222.	3.1	27
18	Ru and Ni-Privileged Metal Combination for Environmental Nanocatalysis. <i>Catalysts</i> , 2020, 10, 992.	1.6	10

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19	Revival of Zeolite-templated Nanocarbon Materials: Recent Advances in Energy Storage and Conversion. <i>Advanced Science</i> , 2020, 7, 2001335.	5.6	42
20	3D Graphene Materials: From Understanding to Design and Synthesis Control. <i>Chemical Reviews</i> , 2020, 120, 10336-10453.	23.0	319
21	Wood nanotechnology: a more promising solution toward energy issues: a mini-review. <i>Cellulose</i> , 2020, 27, 8513-8526.	2.4	14
22	Fabrication of One-Dimensional Organic Nanofiber Networks <i>via</i> Electrophoretic Deposition for a Nonvolatile Memory Device. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57254-57263.	4.0	9
23	<i>In Situ</i> Construction of the Coral-like Polyaniline on the Aligned Silicon Nanowire Arrays for Silicon Substrate On-chip Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 11792-11802.	2.5	15
24	Microwave-assisted synthesis of Cr <sub>3</sub> C <sub>2</sub> @C core shell structure anchored on hierarchical porous carbon foam for enhanced polysulfide adsorption in Li-S batteries. <i>Nano Research</i> , 2021, 14, 2345.	5.8	5
25	CHAIN: Cyber Hierarchy and Interactional Network Enabling Digital Solution for Battery Full-Lifespan Management. <i>Matter</i> , 2020, 3, 27-41.	5.0	110
26	Nanostructure Design Strategies for Aqueous Zinc-ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 2957-2978.	1.7	44
27	Machine-Learning-Enabled Exploration of Morphology Influence on Wire-Array Electrodes for Electrochemical Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4625-4630.	2.1	23
28	Self-assembly of block copolymers towards mesoporous materials for energy storage and conversion systems. <i>Chemical Society Reviews</i> , 2020, 49, 4681-4736.	18.7	311
29	Promises of the "Nano-World" for electrochemical sensing and energy devices. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2189-2191.	1.2	1
30	A bimetallic alloy anchored on biomass-derived porous N-doped carbon fibers as a self-supporting bifunctional oxygen electrocatalyst for flexible Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13725-13734.	5.2	98
31	Silicon-nanoparticle-based composites for advanced lithium-ion battery anodes. <i>Nanoscale</i> , 2020, 12, 7461-7484.	2.8	60
32	Spontaneous deposition of Ir nanoparticles on 2D siloxene as a high-performance HER electrocatalyst with ultra-low Ir loading. <i>Chemical Communications</i> , 2020, 56, 4824-4827.	2.2	39
33	Building MoSe <sub>2</sub> -Mo <sub>2</sub> C incorporated hollow fluorinated carbon fibers for Li-S batteries. <i>Composites Part B: Engineering</i> , 2020, 193, 108004.	5.9	25
34	Co <sub>2</sub> B <sub>2</sub> O <sub>5</sub> as an anode material with high capacity for sodium ion batteries. <i>Rare Metals</i> , 2020, 39, 1045-1052.	3.6	22
35	Electrochemical lithiation/delithiation activities of the random SiO <sub>2</sub> /Mn nanowires in-situ synthesized by an instantaneous arc-plasma. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156207.	2.8	8
36	1D semiconductor nanowires for energy conversion, harvesting and storage applications. <i>Nano Energy</i> , 2020, 76, 104991.	8.2	70

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37	Effect of anisotropic electron transfer on the reactive nucleation of oxide nanowires. <i>Chemical Physics Letters</i> , 2020, 750, 137505.	1.2	2
38	Recent advances in carbon-based supercapacitors. <i>Materials Advances</i> , 2020, 1, 945-966.	2.6	207
39	Effect of size and shape dependent of synthesized copper nanoparticle using natural honey. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 808, 012033.	0.3	0
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41	Principle of progressively and strongly immobilizing polysulfides on polyoxovanadate clusters for excellent Liâ€S batteries application. <i>Nano Energy</i> , 2020, 71, 104596.	8.2	15
42	3D Printing for Electrochemical Energy Applications. <i>Chemical Reviews</i> , 2020, 120, 2783-2810.	23.0	255
43	Towards high-performance microscale batteries: Configurations and optimization of electrode materials by in-situ analytical platforms. <i>Energy Storage Materials</i> , 2020, 29, 17-41.	9.5	25
44	Confining sulfur in intact freestanding scaffold of yolk-shell nanofibers with high sulfur content for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 378-387.	7.1	20
45	Semiconductor Nanocrystal Heterostructures: Near-Infrared Emitting PbSe-Tipped CdSe Tetrapods. <i>Chemistry of Materials</i> , 2020, 32, 4045-4053.	3.2	8
46	Carbon decorated Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for high-rate lithium-ion batteries: Electrochemical performance and charge compensation mechanism. <i>Journal of Energy Chemistry</i> , 2021, 53, 124-131.	7.1	23
47	2D Conductive Metalâ€Organic Frameworks: An Emerging Platform for Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2021, 133, 5672-5684.	1.6	45
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49	Tunable agglomeration of Co <sub>3</sub> O <sub>4</sub> nanowires as the growing core for in-situ formation of Co <sub>2</sub> NiO <sub>4</sub> assembled with polyaniline-derived carbonaceous fibers as the high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157210.	2.8	47
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54	Black potassium titanate nanobelts: Ultrafast and durable aqueous redox electrolyte energy storage. <i>Journal of Power Sources</i> , 2021, 483, 229140.	4.0	5

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55	Polymerization inspired synthesis of MnO@carbon nanowires with long cycling stability for lithium ion battery anodes: growth mechanism and electrochemical performance. Dalton Transactions, 2021, 50, 535-545.	1.6	18
56	Flexible Transparent Supercapacitors: Materials and Devices. Advanced Functional Materials, 2021, 31, 2009136.	7.8	141
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58	Pristine Hollow Metal-Organic Frameworks: Design, Synthesis and Application. Angewandte Chemie - International Edition, 2021, 60, 17314-17336.	7.2	124
59	One-dimensional nitrogen-doped carbon frameworks embedded with zinc-cobalt nanoparticles for efficient overall water splitting. Journal of Colloid and Interface Science, 2021, 585, 800-807.	5.0	23
60	Pristine Hollow Metal-Organic Frameworks: Design, Synthesis and Application. Angewandte Chemie, 2021, 133, 17455-17477.	1.6	9
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62	The Development of Si Anode Materials by Nanotechnology for Lithium-ion Battery. E3S Web of Conferences, 2021, 308, 01007.	0.2	0
63	The Role of Polymer and Inorganic Coatings to Enhance Interparticle Connections Diagnosed by <i>In Situ</i> Techniques. Nano Letters, 2021, 21, 1530-1537.	4.5	9
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65	Hierarchical copper cobalt sulfide nanobelt arrays for high performance asymmetric supercapacitors. Inorganic Chemistry Frontiers, 2021, 8, 3025-3036.	3.0	30
66	Reagent-assisted hydrothermal synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanomaterials as electrodes for high-performance asymmetric supercapacitors. New Journal of Chemistry, 2021, 45, 9230-9242.	1.4	16
67	Melamine Foam Derived 2H/1T MoS <sub>2</sub> as Flexible Interlayer with Efficient Polysulfides Trapping and Fast Li <sup>+</sup> Diffusion to Stabilize Li-S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 6229-6240.	4.0	49
68	Segmented Ag-Au-Ag Heterojunction Nanorods: Pressure-Assisted Aqueous-Phase Synthesis and Engineered Femtosecond-to-Nanosecond Dynamics. Journal of Physical Chemistry Letters, 2021, 12, 989-996.	2.1	9
69	Co <sub>1-x</sub> Ni <sub>x</sub> Zn <sub>y</sub> (CO <sub>3</sub> ) <sub>0.5</sub> (OH) <sub>0.1</sub> H <sub>2</sub> O Nanoneedles-NiCo-Layered Double Hydroxide Nanosheet Composites on Vulcanized Ni Foams for Supercapacitors. ACS Applied Nano Materials, 2021, 4, 1743-1753.	2.4	10
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71	Nano SnO <sub>2</sub> and Sb <sub>2</sub> O <sub>3</sub> combined with CNTs as a high-capacity lithium storage material. Applied Surface Science, 2021, 543, 148870.	3.1	17
72	Long-Life Dendrite-Free Lithium Metal Electrode Achieved by Constructing a Single Metal Atom Anchored in a Diffusion Modulator Layer. Nano Letters, 2021, 21, 3245-3253.	4.5	64

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73	Metal-Organic Frameworks Nanocomposites with Different Dimensionalities for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2022, 12, 2100346.	10.2	86
74	Synergetic Advantages of Atomically Coupled 2D Inorganic and Graphene Nanosheets as Versatile Building Blocks for Diverse Functional Nanohybrids. <i>Advanced Materials</i> , 2021, 33, e2005922.	11.1	49
75	Electrochemical Behavior Promotion of Polysulfides by Cobalt Selenide/Carbon Cloth Interlayer in Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2021, 8, 1531-1536.	1.7	15
76	Water oxidation at photoanodes based on hematite films and nanowire arrays. <i>Thin Solid Films</i> , 2021, 724, 138626.	0.8	5
77	Strongly Coupled 2D Transition Metal Chalcogenide-MXene-Carbonaceous Nanoribbon Heterostructures with Ultrafast Ion Transport for Boosting Sodium/Potassium Ions Storage. <i>Nano-Micro Letters</i> , 2021, 13, 113.	14.4	100
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84	Tailoring nanostructured transition metal phosphides for high-performance hybrid supercapacitors. <i>Nano Today</i> , 2021, 38, 101201.	6.2	86
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103	Criterion for Identifying Anodes for Practically Accessible High-Energy-Density Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3719-3724.	8.8	55
104	Manipulating metal oxidation state over ultrastable metal-organic frameworks for boosting photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120156.	10.8	55
105	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes. <i>Advanced Energy Materials</i> , 2021, 11, 2102103.	10.2	48
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111	A pre-oxidation strategy to improve architecture stability and electrochemical performance of Na <sub>2</sub> MnPO <sub>4</sub> F particles-embedded carbon nanofibers. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 430-439.	5.0	8
112	Optical imaging of nanoscale electrochemical interfaces in energy applications. <i>Nano Energy</i> , 2021, 90, 106539.	8.2	19
113	Interlayer-expanded MoS <sub>2</sub> nanoflowers anchored on the graphene: A high-performance Li <sup>+</sup> /Mg <sup>2+</sup> co-intercalation cathode material. <i>Chemical Engineering Journal</i> , 2022, 428, 131214.	6.6	23
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117	2D Conductive Metal-Organic Frameworks: An Emerging Platform for Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5612-5624.	7.2	198
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119	An Overview on the Development of Electrochemical Capacitors and Batteries – Part I. <i>Anais Da Academia Brasileira De Ciencias</i> , 2020, 92, e20200796.	0.3	5
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121	Interfacial Assembly and Applications of Functional Mesoporous Materials. <i>Chemical Reviews</i> , 2021, 121, 14349-14429.	23.0	151
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128	One-dimensional core@shell motif nanowires with chemically-bonded transition metal sulfide-carbon heterostructures for efficient sodium-ion storage. <i>Chemical Science</i> , 2021, 12, 15054-15060.	3.7	23
129	A mini-review on recent trends in prospective use of porous 1D nanomaterials for hydrogen storage. <i>South African Journal of Chemical Engineering</i> , 2022, 39, 52-61.	1.2	6
130	Graphene Oxide-Assisted Growth of Ultralong and Soft Single-Crystalline NaCl Ionic Nanowires for Potential Optical Nanodevices. <i>ACS Applied Nano Materials</i> , 2021, 4, 13495-13500.	2.4	1
131	Electrospinning super-assembly of ultrathin fibers from single- to multi-Taylor cone sites. <i>Applied Materials Today</i> , 2022, 26, 101272.	2.3	18
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