

# Naiqin Zhao

## List of Publications by Year in descending order

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212  
papers

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22153

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22832

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213  
docs citations

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times ranked

14819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-Encapsulated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles as a High-Rate Lithium Ion Battery Anode Material. ACS Nano, 2013, 7, 4459-4469.	14.6	937
2	Graphene Networks Anchored with Sn@Graphene as Lithium Ion Battery Anode. ACS Nano, 2014, 8, 1728-1738.	14.6	615
3	2D Space-Confined Synthesis of Few-Layer MoS <sub>2</sub> Anchored on Carbon Nanosheet for Lithium-Ion Battery Anode. ACS Nano, 2015, 9, 3837-3848.	14.6	552
4	Atomically Dispersed Binary Co-Ni Sites in Nitrogen-Doped Hollow Carbon Nanocubes for Reversible Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1905622.	21.0	537
5	Nanometals for Solar-to-Chemical Energy Conversion: From Semiconductor-Based Photocatalysis to Plasmon-Mediated Photocatalysis and Photo-Thermocatalysis. Advanced Materials, 2016, 28, 6781-6803.	21.0	471
6	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. ACS Nano, 2017, 11, 6930-6941.	14.6	435
7	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. Nature Energy, 2020, 5, 440-449.	39.5	430
8	Identifying the Activation of Bimetallic Sites in NiCo <sub>2</sub> S <sub>4</sub> @C <sub>3</sub> N <sub>4</sub> CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1808281.	21.0	315
9	Ultrathin Nanosheet-Induced Synthesis of 3D Transition Metal Oxides Networks for Lithium Ion Battery Anodes. Advanced Functional Materials, 2017, 27, 1605017.	14.9	284
10	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. Energy and Environmental Science, 2020, 13, 1096-1131.	30.8	266
11	Preparation of MoS <sub>2</sub> /TiO <sub>2</sub> based nanocomposites for photocatalysis and rechargeable batteries: progress, challenges, and perspective. Nanoscale, 2018, 10, 34-68.	5.6	247
12	Spontaneous Synthesis of Silver Nanoparticle-Decorated Transition Metal Hydroxides for Enhanced Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 7245-7250.	13.8	196
13	Thermal decomposition-reduced layer-by-layer nitrogen-doped graphene/MoS <sub>2</sub> /nitrogen-doped graphene heterostructure for promising lithium-ion batteries. Nano Energy, 2017, 41, 154-163.	16.0	191
14	Porous MoS <sub>2</sub> /Carbon Spheres Anchored on 3D Interconnected Multiwall Carbon Nanotube Networks for Ultrafast Na Storage. Advanced Energy Materials, 2018, 8, 1702909.	19.5	190
15	A Top-Down Strategy toward SnSb In-Plane Nanoconfined 3D N-Doped Porous Graphene Composite Microspheres for High Performance Na-Ion Battery Anode. Advanced Materials, 2018, 30, 1704670.	21.0	183
16	Three-Dimensional Printed Graphene Foams. ACS Nano, 2017, 11, 6860-6867.	14.6	172
17	The superior mechanical and physical properties of nanocarbon reinforced bulk composites achieved by architecture design - A review. Progress in Materials Science, 2020, 113, 100672.	32.8	163
18	A nanosized SnSb alloy confined in N-doped 3D porous carbon coupled with ether-based electrolytes toward high-performance potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14309-14318.	10.3	157

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19	CeO <sub>x</sub> -Decorated NiFe-Layered Double Hydroxide for Efficient Alkaline Hydrogen Evolution by Oxygen Vacancy Engineering. ACS Applied Materials & Interfaces, 2018, 10, 35145-35153.	8.0	156
20	Rational design of Co <sub>9</sub> S <sub>8</sub> /CoO heterostructures with well-defined interfaces for lithium sulfur batteries: A study of synergistic adsorption-electrocatalysis function. Nano Energy, 2019, 60, 332-339.	16.0	156
21	N-doped Graphene Modified 3D Porous Cu Current Collector toward Microscale Homogeneous Li Deposition for Li Metal Anodes. Advanced Energy Materials, 2018, 8, 1800914.	19.5	155
22	Dislocation-strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e2006034.	21.0	148
23	2D sandwich-like carbon-coated ultrathin TiO <sub>2</sub> @defect-rich MoS <sub>2</sub> hybrid nanosheets: Synergistic-effect-promoted electrochemical performance for lithium ion batteries. Nano Energy, 2016, 26, 541-549.	16.0	146
24	A powder-metallurgy-based strategy toward three-dimensional graphene-like network for reinforcing copper matrix composites. Nature Communications, 2020, 11, 2775.	12.8	137
25	Highly Active and Durable Single-Atom Tungsten-doped Ni <sub>0.5</sub> Se <sub>0.5</sub> Nanosheet@NiS <sub>0.5</sub> Se <sub>0.5</sub> Nanorod Heterostructures for Water Splitting. Advanced Materials, 2022, 34, e2107053.	21.0	136
26	Controllable graphene incorporation and defect engineering in MoS <sub>2</sub> -TiO <sub>2</sub> based composites: Towards high-performance lithium-ion batteries anode materials. Nano Energy, 2017, 33, 247-256.	16.0	130
27	A N, O co-doped hierarchical carbon cathode for high-performance Zn-ion hybrid supercapacitors with enhanced pseudocapacitance. Journal of Materials Chemistry A, 2020, 8, 11617-11625.	10.3	130
28	Fabrication of in-situ grown graphene reinforced Cu matrix composites. Scientific Reports, 2016, 6, 19363.	3.3	126
29	Achieving high strength and high ductility in metal matrix composites reinforced with a discontinuous three-dimensional graphene-like network. Nanoscale, 2017, 9, 11929-11938.	5.6	126
30	Clarifying the Controversial Catalytic Performance of Co(OH) <sub>2</sub> and Co <sub>3</sub> O <sub>4</sub> for Oxygen Reduction/Evolution Reactions toward Efficient Zn-Air Batteries. ACS Applied Materials & Interfaces, 2017, 9, 22694-22703.	8.0	121
31	Designed synthesis of NiCo-LDH and derived sulfide on heteroatom-doped edge-enriched 3D rivet graphene films for high-performance asymmetric supercapacitor and efficient OER. Journal of Materials Chemistry A, 2018, 6, 8109-8119.	10.3	121
32	Metal-organic frameworks-derived honeycomb-like Co <sub>3</sub> O <sub>4</sub> /three-dimensional graphene networks/Ni foam hybrid as a binder-free electrode for supercapacitors. Journal of Alloys and Compounds, 2017, 693, 16-24.	5.5	120
33	Preparation of Three-Dimensional Graphene Foams Using Powder Metallurgy Templates. ACS Nano, 2016, 10, 1411-1416.	14.6	117
34	Fabrication of three-dimensional graphene/Cu composite by in-situ CVD and its strengthening mechanism. Journal of Alloys and Compounds, 2016, 688, 69-76.	5.5	116
35	1D Sub-Nanotubes with Anatase/Bronze TiO <sub>2</sub> Nanocrystal Wall for High-Rate and Long-Life Sodium-Ion Batteries. Advanced Materials, 2018, 30, e1804116.	21.0	109
36	In-situ synthesis of graphene decorated with nickel nanoparticles for fabricating reinforced 6061Al matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 699, 185-193.	5.6	108

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37	Efficient Reversible Conversion between MoS <sub>2</sub> and Mo/Na <sub>2</sub> S Enabled by Graphene-Supported Single Atom Catalysts. <i>Advanced Materials</i> , 2021, 33, e2007090.	21.0	108
38	Sandwiched C@SnO <sub>2</sub> @C hollow nanostructures as an ultralong-lifespan high-rate anode material for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10946-10956.	10.3	107
39	Graphene-Supported Atomically Dispersed Metals as Bifunctional Catalysts for Next-Generation Batteries Based on Conversion Reactions. <i>Advanced Materials</i> , 2022, 34, e2105812.	21.0	106
40	Capacitance controlled, hierarchical porous 3D ultra-thin carbon networks reinforced prussian blue for high performance Na-ion battery cathode. <i>Nano Energy</i> , 2019, 58, 192-201.	16.0	100
41	Free-Standing Porous Carbon Nanofiber/Ultrathin Graphite Hybrid for Flexible Solid-State Supercapacitors. <i>ACS Nano</i> , 2015, 9, 481-487.	14.6	99
42	Effect of Interface Structure on the Mechanical Properties of Graphene Nanosheets Reinforced Copper Matrix Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37586-37601.	8.0	99
43	Soluble salt self-assembly-assisted synthesis of three-dimensional hierarchical porous carbon networks for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22266-22273.	10.3	98
44	Salt-template-assisted synthesis of robust 3D honeycomb-like structured MoS <sub>2</sub> and its application as a lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8734-8741.	10.3	96
45	Three-Dimensional Network of N-Doped Carbon Ultrathin Nanosheets with Closely Packed Mesopores: Controllable Synthesis and Application in Electrochemical Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11720-11728.	8.0	93
46	Boosting the capacitive storage performance of MOF-derived carbon frameworks via structural modulation for supercapacitors. <i>Energy Storage Materials</i> , 2019, 23, 491-498.	18.0	93
47	Designing Electrophilic and Nucleophilic Dual Centers in the ReS <sub>2</sub> Plane toward Efficient Bifunctional Catalysts for Li-CO <sub>2</sub> Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 3106-3116.	13.7	93
48	Graphene Carbon Nanotube Carpets Grown Using Binary Catalysts for High-Performance Lithium-Ion Capacitors. <i>ACS Nano</i> , 2017, 11, 2724-2733.	14.6	91
49	Salt-assisted synthesis of 3D open porous g-C <sub>3</sub> N <sub>4</sub> decorated with cyano groups for photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 3008-3013.	5.6	87
50	Facile synthesis of 3D few-layered MoS <sub>2</sub> coated TiO <sub>2</sub> nanosheet core-shell nanostructures for stable and high-performance lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 12895-12905.	5.6	85
51	Microstructure and properties of copper coated graphene nanoplates reinforced Al matrix composites developed by low temperature ball milling. <i>Carbon</i> , 2020, 159, 311-323.	10.3	77
52	In-situ space-confined synthesis of well-dispersed three-dimensional graphene/carbon nanotube hybrid reinforced copper nanocomposites with balanced strength and ductility. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 103, 178-187.	7.6	76
53	Scalable synthesis of high-quality transition metal dichalcogenide nanosheets and their application as sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17370-17380.	10.3	72
54	An approach for fabricating Ni@graphene reinforced nickel matrix composites with enhanced mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 108-116.	5.6	70

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55	Free-Standing 3D Nanoporous Duct-Like and Hierarchical Nanoporous Graphene Films for Micron-Level Flexible Solid-State Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1600755.	19.5	66
56	Anomalous Interfacial Lithium Storage in Graphene/TiO <sub>2</sub> for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18147-18151.	8.0	65
57	Hard-template synthesis of three-dimensional interconnected carbon networks: Rational design, hybridization and energy-related applications. <i>Nano Today</i> , 2019, 29, 100796.	11.9	64
58	Three-dimensional core-shell Fe <sub>2</sub> O <sub>3</sub> @ carbon/carbon cloth as binder-free anode for the high-performance lithium-ion batteries. <i>Applied Surface Science</i> , 2016, 390, 350-356.	6.1	63
59	Three-dimensional porous carbon materials and their composites as electrodes for electrochemical energy storage systems. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2221-2245.	5.9	63
60	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2020, 12, 162.	27.0	59
61	Distorted 1T-ReS <sub>2</sub> Nanosheets Anchored on Porous TiO <sub>2</sub> Nanofibers for Highly Enhanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 23144-23151.	8.0	57
62	A large ultrathin anatase TiO <sub>2</sub> nanosheet/reduced graphene oxide composite with enhanced lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8893.	10.3	56
63	Continuously hierarchical nanoporous graphene film for flexible solid-state supercapacitors with excellent performance. <i>Nano Energy</i> , 2016, 24, 158-164.	16.0	56
64	Yolk-shelled Sb@C nanoconfined nitrogen/sulfur co-doped 3D porous carbon microspheres for sodium-ion battery anode with ultralong high-rate cycling. <i>Nano Energy</i> , 2019, 66, 104133.	16.0	56
65	Fabrication of Nanocarbon Composites Using In Situ Chemical Vapor Deposition and Their Applications. <i>Advanced Materials</i> , 2015, 27, 5422-5431.	21.0	55
66	Effectively reinforced load transfer and fracture elongation by forming Al <sub>4</sub> C <sub>3</sub> for in-situ synthesizing carbon nanotube reinforced Al matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 182-189.	5.6	54
67	N-Doped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30832-30839.	8.0	53
68	Microwave absorbing properties of activated carbon fibre polymer composites. <i>Bulletin of Materials Science</i> , 2011, 34, 75-79.	1.7	51
69	Facile synthesis and electrochemical properties of continuous porous spheres assembled from defect-rich, interlayer-expanded, and few-layered MoS <sub>2</sub> /C nanosheets for reversible lithium storage. <i>Journal of Power Sources</i> , 2018, 387, 16-23.	7.8	51
70	Effect of Ni, Fe and Fe-Ni alloy catalysts on the synthesis of metal contained carbon nano-onions and studies of their electrochemical hydrogen storage properties. <i>Journal of Energy Chemistry</i> , 2014, 23, 324-330.	12.9	50
71	1T-ReS <sub>2</sub> Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901146.	19.5	50
72	Heterostructure Engineering of Core-Shelled Sb@Sb <sub>2</sub> O <sub>3</sub> Encapsulated in 3D N-Doped Carbon Hollow Spheres for Superior Sodium/Potassium Storage. <i>Small</i> , 2021, 17, e2006824.	10.0	49

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73	In situ synthesis of a gamma-Al <sub>2</sub> O <sub>3</sub> whisker reinforced aluminium matrix composite by cold pressing and sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 709, 223-231.	5.6	48
74	Three-Dimensional Rebar Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7376-7384.	8.0	46
75	Electronic reconfiguration of Co <sub>2</sub> P induced by Cu doping enhancing oxygen reduction reaction activity in zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21232-21243.	10.3	46
76	Enhanced Hydrogen Evolution Reaction Performance of NiCo <sub>2</sub> P by Filling Oxygen Vacancies by Phosphorus in Thin-Coating CeO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32460-32468.	8.0	46
77	Carbon-coated Fe <sub>2</sub> O <sub>3</sub> nanocrystals with enhanced lithium storage capability. <i>Applied Surface Science</i> , 2015, 347, 178-185.	6.1	45
78	A bottom-up strategy toward metal nano-particles modified graphene nanoplates for fabricating aluminum matrix composites and interface study. <i>Journal of Materials Science and Technology</i> , 2020, 46, 21-32.	10.7	45
79	In situ synthesis of high content graphene nanoplatelets reinforced Cu matrix composites with enhanced thermal conductivity and tensile strength. <i>Powder Technology</i> , 2020, 362, 126-134.	4.2	44
80	In-situ Al <sub>2</sub> O <sub>3</sub> -Al interface contribution towards the strength-ductility synergy of Al-CuO composite fabricated by solid-state reactive sintering. <i>Scripta Materialia</i> , 2021, 198, 113825.	5.2	44
81	Synthesis of uniform and superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanocrystals embedded in a porous carbon matrix for a superior lithium ion battery anode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11011.	10.3	42
82	Space-Confined Synthesis of Three-Dimensional Boron/Nitrogen-Doped Carbon Nanotubes/Carbon Nanosheets Line-in-Wall Hybrids and Their Electrochemical Energy Storage Applications. <i>Electrochimica Acta</i> , 2016, 212, 621-629.	5.2	42
83	Sandwiched graphene inserted with graphene-encapsulated yolk-shell Fe <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> nanoparticles for efficient lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7035-7042.	10.3	42
84	ZnO nanoconfined 3D porous carbon composite microspheres to stabilize lithium nucleation/growth for high-performance lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19442-19452.	10.3	42
85	An in-plane Co <sub>9</sub> S <sub>8</sub> @MoS <sub>2</sub> heterostructure for the hydrogen evolution reaction in alkaline media. <i>Nanoscale</i> , 2019, 11, 21479-21486.	5.6	42
86	Graphene Oxide-Assisted Synthesis of Microsized Ultrathin Single-Crystalline Anatase TiO <sub>2</sub> Nanosheets and Their Application in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2495-2504.	8.0	40
87	In situ synthesis of copper-modified graphene-reinforced aluminum nanocomposites with balanced strength and ductility. <i>Journal of Materials Science</i> , 2019, 54, 5498-5512.	3.7	40
88	Three-Level Design of MoS <sub>2</sub> -Based Anodes for Enhanced Sodium Storage: from Atomic to Macroscopic Level. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	40
89	Formation of the orientation relationship-dependent interfacial carbide in Al matrix composite affected by architected carbon nanotube. <i>Acta Materialia</i> , 2022, 228, 117758.	7.9	40
90	Three-dimensional graphene anchored Fe <sub>2</sub> O <sub>3</sub> @C core-shell nanoparticles as supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2017, 696, 956-963.	5.5	39

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91	“Ethanol-water exchange” nanobubbles templated hierarchical hollow $\text{Mo}_2\text{C}/\text{N}$ -doped carbon composite nanospheres as an efficient hydrogen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6054-6064.	10.3	39
92	In situ preparation of interconnected networks constructed by using flexible graphene/Sn sandwich nanosheets for high-performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23170-23179.	10.3	38
93	Influence of spark plasma sintering temperature on the microstructure and strengthening mechanisms of discontinuous three-dimensional graphene-like network reinforced Cu matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 82-91.	5.6	38
94	Bio-inspired three-dimensional carbon network with enhanced mass-transfer ability for supercapacitors. <i>Carbon</i> , 2019, 143, 728-735.	10.3	38
95	Ball-in-cage nanocomposites of metal-organic frameworks and three-dimensional carbon networks: synthesis and capacitive performance. <i>Nanoscale</i> , 2017, 9, 6478-6485.	5.6	37
96	Accelerating water dissociation kinetics on $\text{Ni}_3\text{S}_2$ nanosheets by P-induced electronic modulation. <i>Journal of Catalysis</i> , 2020, 381, 493-500.	6.2	37
97	Ultrasml Fe <sub>2</sub> GeO <sub>4</sub> nanodots anchored on interconnected carbon nanosheets as high-performance anode materials for lithium and sodium ion batteries. <i>Applied Surface Science</i> , 2018, 427, 670-679.	6.1	36
98	Synthesis of three-dimensional carbon networks decorated with $\text{Fe}_3\text{O}_4$ nanoparticles as lightweight and broadband electromagnetic wave absorber. <i>Journal of Alloys and Compounds</i> , 2019, 776, 691-701.	5.5	36
99	Surface Double Phase Network Modified Lithium Rich Layered Oxides with Improved Rate Capability for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 391-399.	8.0	35
100	Strongly coupled hollow-oxide/phosphide hybrid coated with nitrogen-doped carbon as highly efficient electrocatalysts in alkaline for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2019, 377, 582-588.	6.2	35
101	Enhanced mechanical properties and electrical conductivity of graphene nanoplatelets/Cu composites by in situ formation of $\text{Mo}_2\text{C}$ nanoparticles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138365.	5.6	35
102	Three-dimensionally hierarchical $\text{Co}_3\text{O}_4/\text{Carbon}$ composites with high pseudocapacitance contribution for enhancing lithium storage. <i>Electrochimica Acta</i> , 2018, 283, 1269-1276.	5.2	34
103	Synergistic strengthening effect of in-situ synthesized $\text{WC}_{1-x}$ nanoparticles and graphene nanosheets in copper matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 133, 105891.	7.6	34
104	One-step synthesis of SnCo nanoconfined in hierarchical carbon nanostructures for lithium ion battery anode. <i>Nanoscale</i> , 2017, 9, 15856-15864.	5.6	33
105	Nitrogen-doped graphene network supported copper nanoparticles encapsulated with graphene shells for surface-enhanced Raman scattering. <i>Nanoscale</i> , 2015, 7, 17079-17087.	5.6	32
106	Comprehensive performance regulation of Cu matrix composites with graphene nanoplatelets in situ encapsulated $\text{Al}_2\text{O}_3$ nanoparticles as reinforcement. <i>Carbon</i> , 2022, 188, 81-94.	10.3	32
107	Achieving prominent strengthening efficiency of graphene nanosheets in Al matrix composites by hybrid deformation. <i>Carbon</i> , 2021, 183, 530-545.	10.3	30
108	Architected interfacial interlocking structure for enhancing mechanical properties of Al matrix composites reinforced with graphene nanosheets. <i>Carbon</i> , 2021, 183, 685-701.	10.3	30

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109	Effect of SiC nanoparticles on the precipitation behavior and mechanical properties of 7075Al alloy. <i>Journal of Materials Science</i> , 2020, 55, 6145-6160.	3.7	29
110	In situ fabrication of Ni(OH) <sub>2</sub> /Cu <sub>2</sub> O nanosheets on nanoporous NiCu alloy for high performance supercapacitor. <i>Electrochimica Acta</i> , 2018, 283, 970-978.	5.2	28
111	Engineering Pocket-Like Graphene-Shell Encapsulated FeS <sub>2</sub> : Inhibiting Polysulfides Shuttle Effect in Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
112	Carbon-coated Ni <sub>3</sub> Sn <sub>2</sub> nanoparticles embedded in porous carbon nanosheets as a lithium ion battery anode with outstanding cycling stability. <i>RSC Advances</i> , 2014, 4, 49247-49256.	3.6	27
113	Interfacial effect on the electrochemical properties of the layered graphene/metal sulfide composites as anode materials for Li-ion batteries. <i>Surface Science</i> , 2016, 651, 10-15.	1.9	27
114	Salt-template synthesis of mesoporous carbon monolith for ionogel-based supercapacitors. <i>Electrochemistry Communications</i> , 2018, 96, 6-10.	4.7	27
115	Designing Nanoporous Coral-Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	27
116	Three-dimensional porous bowl-shaped carbon cages interspersed with carbon coated Ni-Sn alloy nanoparticles as anode materials for high-performance lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 393-402.	2.8	26
117	High-strength graphene network reinforced copper matrix composites achieved by architecture design and grain structure regulation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 762, 138063.	5.6	26
118	Influence of the P/M process on the microstructure and properties of WC reinforced copper matrix composite. <i>Journal of Materials Science</i> , 2004, 39, 4829-4834.	3.7	25
119	Ultralight metal foams. <i>Scientific Reports</i> , 2015, 5, 13825.	3.3	25
120	Preparation of Fe <sub>3</sub> O <sub>4</sub> /rebar graphene composite via solvothermal route as binder free anode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 661, 448-454.	5.5	25
121	Ultrafine Ni(OH) <sub>2</sub> nanoneedles on N-doped 3D rivet graphene film for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 783, 625-632.	5.5	25
122	In-situ synthesis of CNTs@Al <sub>2</sub> O <sub>3</sub> wrapped structure in aluminum matrix composites with balanced strength and toughness. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 140058.	5.6	25
123	Microstructure, growth process and enhanced photocatalytic activity of immobilized hierarchical ZnO nanostructures. <i>RSC Advances</i> , 2013, 3, 21666.	3.6	24
124	Understanding the Electrochemical Properties of Li-Rich Cathode Materials from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28749-28756.	3.1	24
125	Multi-functional integration of pore P25@C@MoS <sub>2</sub> core-double shell nanostructures as robust ternary anodes with enhanced lithium storage properties. <i>Applied Surface Science</i> , 2017, 401, 232-240.	6.1	24
126	Orientation Relationships and Interface Structure in MgAl <sub>2</sub> O <sub>4</sub> and MgAl <sub>4</sub> Co-Reinforced Al Matrix Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42790-42800.	8.0	24



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127	Synergistic effect of Cu on laminated graphene nanosheets/AlCu composites with enhanced mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 201-210.	5.6	24
128	Exceptional mechanical properties of aluminum matrix composites with heterogeneous structure induced by in-situ graphene nanosheet-Cu hybrids. <i>Composites Part B: Engineering</i> , 2022, 234, 109731.	12.0	24
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