

Chun-Nian He

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143
papers

5,869
citations

38
h-index

73
g-index

155
ext. papers

7,132
ext. citations

8.6
avg, IF

6.18
L-index

#	Paper	IF	Citations
143	Carbon-encapsulated Fe ₃ O ₄ nanoparticles as a high-rate lithium ion battery anode material. <i>ACS Nano</i> , 2013 , 7, 4459-69	16.7	824
142	Graphene networks anchored with Sn@graphene as lithium ion battery anode. <i>ACS Nano</i> , 2014 , 8, 1728-38	16.7	533
141	2D Space-Confined Synthesis of Few-Layer MoS ₂ Anchored on Carbon Nanosheet for Lithium-Ion Battery Anode. <i>ACS Nano</i> , 2015 , 9, 3837-48	16.7	494
140	Ultrathin-Nanosheet-Induced Synthesis of 3D Transition Metal Oxides Networks for Lithium Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2017 , 27, 1605017	15.6	249
139	Thermal decomposition-reduced layer-by-layer nitrogen-doped graphene/MoS ₂ /nitrogen-doped graphene heterostructure for promising lithium-ion batteries. <i>Nano Energy</i> , 2017 , 41, 154-163	17.1	160
138	A Top-Down Strategy toward SnSb In-Plane Nanoconfined 3D N-Doped Porous Graphene Composite Microspheres for High Performance Na-Ion Battery Anode. <i>Advanced Materials</i> , 2018 , 30, 1704670	24	147
137	2D sandwich-like carbon-coated ultrathin TiO ₂ @defect-rich MoS ₂ hybrid nanosheets: Synergistic-effect-promoted electrochemical performance for lithium ion batteries. <i>Nano Energy</i> , 2016 , 26, 541-549	17.1	129
136	Fabrication of in-situ grown graphene reinforced Cu matrix composites. <i>Scientific Reports</i> , 2016 , 6, 19363	4.9	106
135	Rational design of Co ₉ S ₈ /CoO heterostructures with well-defined interfaces for lithium sulfur batteries: A study of synergistic adsorption-electrocatalysis function. <i>Nano Energy</i> , 2019 , 60, 332-339	17.1	102
134	CeO ₂ -Decorated NiFe-Layered Double Hydroxide for Efficient Alkaline Hydrogen Evolution by Oxygen Vacancy Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35145-35153	9.5	93
133	Sandwiched C@SnO ₂ @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	13	88
132	Achieving high strength and high ductility in metal matrix composites reinforced with a discontinuous three-dimensional graphene-like network. <i>Nanoscale</i> , 2017 , 9, 11929-11938	7.7	85
131	Salt-template-assisted synthesis of robust 3D honeycomb-like structured MoS ₂ and its application as a lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8734-8741	13	85
130	1D Sub-Nanotubes with Anatase/Bronze TiO Nanocrystal Wall for High-Rate and Long-Life Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1804116	24	85
129	The superior mechanical and physical properties of nanocarbon reinforced bulk composites achieved by architecture design: A review. <i>Progress in Materials Science</i> , 2020 , 113, 100672	42.2	83
128	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	13	81
127	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 & Interfaces</i> , 2016 , 8, 11720-8	9.5	79

126	In-situ synthesis of graphene decorated with nickel nanoparticles for fabricating reinforced 6061Al matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 699, 185-193	5.3	76
125	Salt-assisted synthesis of 3D open porous g-CN decorated with cyano groups for photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2018 , 10, 3008-3013	7.7	68
124	Traditional uses, phytochemistry, and pharmacology of the genus Acer (maple): A review. <i>Journal of Ethnopharmacology</i> , 2016 , 189, 31-60	5	61
123	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	13	60
122	A powder-metallurgy-based strategy toward three-dimensional graphene-like network for reinforcing copper matrix composites. <i>Nature Communications</i> , 2020 , 11, 2775	17.4	57
121	Effect of Sc/Zr ratio on the microstructure and mechanical properties of new type of Al ₇₀ Zn ₁₀ Mg ₁₀ Sc ₂ Zr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 617, 219-227	5.3	56
120	Effect of Interface Structure on the Mechanical Properties of Graphene Nanosheets Reinforced Copper Matrix Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37586-37601	9.5	56
119	A hybrid energy storage mechanism of carbonous anodes harvesting superior rate capability and long cycle life for sodium/potassium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3673-3681	13	55
118	Evolution of microstructure and properties of Al ₇₀ Zn ₁₀ Mg ₁₀ Sc ₂ Zr alloy during aging treatment. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 946-951	5.7	55
117	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	8.4	53
116	An approach for fabricating Ni@graphene reinforced nickel matrix composites with enhanced mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 715, 108-116	5.3	52
115	A large ultrathin anatase TiO ₂ nanosheet/reduced graphene oxide composite with enhanced lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8893	13	52
114	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	21.8	48
113	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	45
112	Fabrication of Nanocarbon Composites Using In Situ Chemical Vapor Deposition and Their Applications. <i>Advanced Materials</i> , 2015 , 27, 5422-31	24	43
111	Chemical taxonomy of tree peony species from China based on root cortex metabolic fingerprinting. <i>Phytochemistry</i> , 2014 , 107, 69-79	4	42
110	N-Doped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30832-30839	9.5	42
109	High-Valent Nickel Promoted by Atomically Embedded Copper for Efficient Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 9725-9734	13.1	42

108	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	17.1	41
107	Carbon-coated Fe ₂ O ₃ nanocrystals with enhanced lithium storage capability. <i>Applied Surface Science</i> , 2015 , 347, 178-185	6.7	40
106	Synthesis of uniform and superparamagnetic Fe ₃ O ₄ nanocrystals embedded in a porous carbon matrix for a superior lithium ion battery anode. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11011	13	40
105	Graphene Oxide-Assisted Synthesis of Microsized Ultrathin Single-Crystalline Anatase TiO ₂ Nanosheets and Their Application in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2495-504	9.5	37
104	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	10.4	37
103	Sandwiched graphene inserted with graphene-encapsulated yolk-shell Fe ₂ O ₃ nanoparticles for efficient lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7035-7042	13	35
102	Space-Confining 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	6.7	33
101	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	4.3	33
100	In situ synthesis of a gamma-Al ₂ O ₃ whisker reinforced aluminium matrix composite by cold pressing and sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 709, 223-231	5.3	33
99	Ball-in-cage nanocomposites of metal-organic frameworks and three-dimensional carbon networks: synthesis and capacitive performance. <i>Nanoscale</i> , 2017 , 9, 6478-6485	7.7	32
98	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	13	31
97	Ethanol/Water exchange nanobubbles templated hierarchical hollow Mo ₂ C/N-doped carbon composite nanospheres as an efficient hydrogen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6054-6064	13	30
96	Three-dimensionally hierarchical Co ₃ O ₄ /Carbon composites with high pseudocapacitance contribution for enhancing lithium storage. <i>Electrochimica Acta</i> , 2018 , 283, 1269-1276	6.7	29
95	Investigation of free amino acid, total phenolics, antioxidant activity and purine alkaloids to assess the health properties of non-Camellia tea. <i>Acta Pharmaceutica Sinica B</i> , 2016 , 6, 170-81	15.5	29
94	Electronic reconfiguration of Co ₂ 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	13	28
93	One-step synthesis of SnCo nanoconfined in hierarchical carbon nanostructures for lithium ion battery anode. <i>Nanoscale</i> , 2017 , 9, 15856-15864	7.7	27
92	Enhanced Hydrogen Evolution Reaction Performance of NiCoP by Filling Oxygen Vacancies by Phosphorus in Thin-Coating CeO. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32460-32468	9.5	26
91	Hard-template synthesis of three-dimensional interconnected carbon networks: Rational design, hybridization and energy-related applications. <i>Nano Today</i> , 2019 , 29, 100796	17.9	26

90	Synthesis of three-dimensional carbon networks decorated with Fe ₃ O ₄ nanoparticles as lightweight and broadband electromagnetic wave absorber. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 691-701	5.7	26
89	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	7.3	25
88	Nitrogen-doped graphene network supported copper nanoparticles encapsulated with graphene shells for surface-enhanced Raman scattering. <i>Nanoscale</i> , 2015 , 7, 17079-87	7.7	25
87	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	13	25
86	Three-dimensional porous bowl-shaped carbon cages interspersed with carbon coated Ni ₃ Sn alloy nanoparticles as anode materials for high-performance lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 393-402	3.6	25
85	Simultaneously enhanced strength and ductility of Al matrix composites through the introduction of intragranular nano-sized graphene nanoplates. <i>Composites Part B: Engineering</i> , 2021 , 212, 108700	10	23
84	Heterostructure Engineering of Core-Shell Sb@Sb O Encapsulated in 3D N-Doped Carbon Hollow-Spheres for Superior Sodium/Potassium Storage. <i>Small</i> , 2021 , 17, e2006824	11	23
83	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 82-91	5.3	22
82	Preparation of Fe ₃ O ₄ /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	5.7	22
81	Carbon-coated Ni ₃ Sn ₂ nanoparticles embedded in porous carbon nanosheets as a lithium ion battery anode with outstanding cycling stability. <i>RSC Advances</i> , 2014 , 4, 49247-49256	3.7	22
80	Protective effects of marein on high glucose-induced glucose metabolic disorder in HepG2 cells. <i>Phytomedicine</i> , 2016 , 23, 891-900	6.5	22
79	In situ fabrication of Ni(OH) ₂ /Cu ₂ O nanosheets on nanoporous NiCu alloy for high performance supercapacitor. <i>Electrochimica Acta</i> , 2018 , 283, 970-978	6.7	22
78	Smart hybridization of Sn ₂ Nb ₂ O ₇ /SnO ₂ @3D carbon nanocomposites with enhanced sodium storage performance through self-buffering effects. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13052-13061	13	21
77	Traditional uses, ten-years research progress on phytochemistry and pharmacology, and clinical studies of the genus <i>Scutellaria</i> . <i>Journal of Ethnopharmacology</i> , 2021 , 265, 113198	5	21
76	In situ synthesized Li ₂ S@porous carbon cathode for graphite/Li ₂ S full cells using ether-based electrolyte. <i>Electrochimica Acta</i> , 2017 , 256, 348-356	6.7	20
75	Microstructural evolution in Al-Zn-Mg-Cu-Sc-Zr alloys during short-time homogenization. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 516-523	3.1	20
74	An in-plane CoS@MoS heterostructure for the hydrogen evolution reaction in alkaline media. <i>Nanoscale</i> , 2019 , 11, 21479-21486	7.7	20
73	Bio-inspired three-dimensional carbon network with enhanced mass-transfer ability for supercapacitors. <i>Carbon</i> , 2019 , 143, 728-735	10.4	20

72	Enhanced mechanical properties and electrical conductivity of graphene nanoplatelets/Cu composites by in situ formation of Mo ₂ C nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138365	5.3	19
71	Understanding the Electrochemical Properties of Li-Rich Cathode Materials from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28749-28756	3.8	19
70	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	5.2	19
69	Nitrogen and oxygen co-doped 3D nanoporous duct-like graphene@carbon nano-cage hybrid films for high-performance multi-style supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18535-18541 ¹³	4.3	18
68	Ultralight metal foams. <i>Scientific Reports</i> , 2015 , 5, 13825	4.9	18
67	Genus Paeonia: A comprehensive review on traditional uses, phytochemistry, pharmacological activities, clinical application, and toxicology. <i>Journal of Ethnopharmacology</i> , 2021 , 269, 113708	5	18
66	Synergistic effect of Cu on laminated graphene nanosheets/AlCu composites with enhanced mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 201-210	5.3	18
65	Synergistic strengthening effect of in-situ synthesized WC _{1-x} nanoparticles and graphene nanosheets in copper matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 133, 105891	8.4	18
64	Revealing the strengthening and toughening mechanisms of Al-CuO composite fabricated via in-situ solid-state reaction. <i>Acta Materialia</i> , 2021 , 204, 116524	8.4	18
63	Boron doping effect on the interface interaction and mechanical properties of graphene reinforced copper matrix composite. <i>Applied Surface Science</i> , 2017 , 425, 811-822	6.7	17
62	In-situ Al ₂ O ₃ -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	5.6	14
61	High-strength graphene network reinforced copper matrix composites achieved by architecture design and grain structure regulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138063	5.3	13
60	Comparative Genome Analysis of <i>Scutellaria baicalensis</i> and <i>Scutellaria barbata</i> Reveals the Evolution of Active Flavonoid Biosynthesis. <i>Genomics, Proteomics and Bioinformatics</i> , 2020 , 18, 230-240	6.5	12
59	Fabrication of Sn-core/CNT-shell nanocable anchored interconnected carbon networks as anode material for lithium ion batteries. <i>Materials Letters</i> , 2018 , 212, 94-97	3.3	12
58	In-situ synthesis of MgAlB ₄ whiskers as a promising reinforcement for aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138229	5.3	12
57	Synthesis of novel carbon nano-chains and their application as supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16268-16275	13	12
56	Orientation Relationships and Interface Structure in MgAlO and MgAlB Co-Reinforced Al Matrix Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42790-42800	9.5	11
55	Synthesis of 2D/3D carbon hybrids by heterogeneous space-confined effect for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19175-19183	13	11

54	Comparative and Phylogenetic Analysis of the Complete Chloroplast Genomes of Three Section Species (Paeoniaceae). <i>Frontiers in Genetics</i> , 2020 , 11, 980	4.5	11
53	Effect of SiC nanoparticles on the precipitation behavior and mechanical properties of 7075Al alloy. <i>Journal of Materials Science</i> , 2020 , 55, 6145-6160	4.3	10
52	Dopant-Modulating Mechanism of Lithium Adsorption and Diffusion at the Graphene/Li2S Interface. <i>Physical Review Applied</i> , 2018 , 9,	4.3	10
51	Preparation and mechanical properties of in-situ synthesized nano-MgAl ₂ O ₄ particles and Mg _x Al _(1-x) B ₂ whiskers co-reinforced Al matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 236-242	5.3	10
50	Screening of acetylcholinesterase inhibitors and characterizing of phytochemical constituents from <i>Dichocarpum auriculatum</i> (Franch.) W.T. Wang & P. K. Hsiao through UPLC-MS combined with an acetylcholinesterase inhibition assay in vitro. <i>Journal of Ethnopharmacology</i> , 2019 , 245, 112185	5	10
49	Comprehensive metabolic profile analysis of the root bark of different species of tree peonies (<i>Paeonia Sect. Moutan</i>). <i>Phytochemistry</i> , 2019 , 163, 118-125	4	9
48	Self-anchored catalysts for substrate-free synthesis of metal-encapsulated carbon nano-onions and study of their magnetic properties. <i>Nano Research</i> , 2016 , 9, 1159-1172	10	9
47	SIMULTANEOUS DETERMINATION OF TEN STILBENES IN THE SEEDS OF PAEONIA SPECIES USING HPLC-DAD. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2013 , 36, 1708-1724	1.3	9
46	In-situ synthesis of CNTs@Al ₂ O ₃ wrapped structure in aluminum matrix composites with balanced strength and toughness. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 140058	5.3	9
45	Fabrication of Carbon Nanotube-Reinforced 6061Al Alloy Matrix Composites by an In Situ Synthesis Method Combined with Hot Extrusion Technique. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 188-198	2.5	8
44	Synergistic strengthening effect of alumina anchored graphene nanosheets hybrid structure in aluminum matrix composites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019 , 27, 640-649	1.8	7
43	Compressive responses and strengthening mechanisms of aluminum composite foams reinforced with graphene nanosheets. <i>Carbon</i> , 2019 , 153, 396-406	10.4	7
42	Adsorption of hydrogen atoms on graphene with TiO ₂ decoration. <i>Journal of Applied Physics</i> , 2013 , 113, 153708	2.5	7
41	High strength-ductility synergy of MgAlB ₄ whisker reinforced aluminum matrix composites achieved by in situ synthesis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140127	5.3	7
40	Compression-compression fatigue performance of aluminium matrix composite foams reinforced by carbon nanotubes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 744-756	3	6
39	A Chemical-Adsorption Strategy to Enhance the Reaction Kinetics of Lithium-Rich Layered Cathodes via Double-Shell Surface Modification. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24594-602	8.5	6
38	Copper-Coated Graphene Nanoplatelets-Reinforced Al ₅ Si Alloy Matrix Composites Fabricated by Stir Casting Method. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 111-124	2.5	6
37	Enhanced interface interaction between modified carbon nanotubes and magnesium matrix. <i>Composite Interfaces</i> , 2018 , 25, 1101-1114	2.3	5

36	Graphite Carbon Nanosheet-Coated Cobalt-Doped Molybdenum Carbide Nanoparticles for Efficient Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2021 , 4, 372-380	5.6	5
35	Assembly Multifunctional Three-Dimensional Carbon Networks by Controlling Intermolecular Forces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36284-36289	9.5	5
34	Octopus-Inspired Design of Apical NiS Nanoparticles Supported on Hierarchical Carbon Composites as an Efficient Host for Lithium Sulfur Batteries with High Sulfur Loading. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17528-17537	9.5	4
33	Crushing behavior and energy absorption property of carbon nanotube-reinforced aluminum composite foam-filled 6061 aluminum alloy tubes. <i>Journal of Materials Science</i> , 2020 , 55, 7910-7926	4.3	4
32	Achieving prominent strengthening efficiency of graphene nanosheets in Al matrix composites by hybrid deformation. <i>Carbon</i> , 2021 , 183, 530-545	10.4	4
31	Architected interfacial interlocking structure for enhancing mechanical properties of Al matrix composites reinforced with graphene nanosheets. <i>Carbon</i> , 2021 , 183, 685-701	10.4	4
30	Effect of GNPs on microstructures and mechanical properties of GNPs/Al-Cu composites with different heat treatment status. <i>Journal of Materials Science and Technology</i> , 2021 , 92, 1-10	9.1	4
29	Effect of Ti/Sc atom ratio on heterogeneous nuclei, microstructure and mechanical properties of A357-0.033Sr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 671, 275-287	5.3	3
28	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	10	3
27	Unraveling the mechanism of hydrogen evolution reaction on cobalt compound electrocatalysts. <i>Applied Surface Science</i> , 2021 , 550, 149355	6.7	3
26	Comprehensive performance regulation of Cu matrix composites with graphene nanoplatelets in situ encapsulated Al ₂ O ₃ nanoparticles as reinforcement. <i>Carbon</i> , 2022 , 188, 81-94	10.4	2
25	W Clusters Assisted Synthesis of Layered Carbon Nanotube Arrays on Graphene Achieving High-Rate Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19117-19127	9.5	2
24	Recent Developments of Antimony-Based Anodes for Sodium- and Potassium-Ion Batteries. <i>Transactions of Tianjin University</i> , 1	2.9	2
23	Microstructure evolution and tensile behavior of MgAlB ₄ w/Al composites at high temperatures. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161088	5.7	2
22	Manipulating mechanical properties of graphene/Al composites by an in-situ synthesized hybrid reinforcement strategy. <i>Journal of Materials Science and Technology</i> , 2022 , 123, 13-25	9.1	2
21	Engineering Pocket-Like Graphene Shell Encapsulated FeS ₂ : Inhibiting Polysulfides Shuttle Effect in Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 2109899	15.6	2
20	Fabrication of Graphene Nanoplates Modified with Nickel Nanoparticles for Reinforcing Copper Matrix Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 643-648	2.5	1
19	Compressive Response and Energy Absorption Characteristics of In Situ Grown CNT-Reinforced Al Composite Foams. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700431	3.5	1

18	TiO ₂ cellular-protected nanowire array fabricated super-rapidly by the precipitation of colloids in the nanopores. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13820		1
17	Preparation of 3YSZ/Cu composite by in-situ chemical route. <i>Journal of Materials Science</i> , 2007 , 42, 5671-5675		1
16	Deformation mechanism of copper reinforced by three-dimensional graphene under torsion and tension. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022 , 30, 025004	2	1
15	Bismuth-antimony alloy nanoparticles encapsulated in 3D carbon framework: Synergistic effect for enhancing interfacial potassium storage. <i>Chemical Engineering Journal</i> , 2022 , 430, 132906	14.7	1
14	Comparative and phylogenetic analyses of the chloroplast genomes of species of Paeoniaceae. <i>Scientific Reports</i> , 2021 , 11, 14643	4.9	1
13	Microstructure and tensile properties of A356 alloy with different Sc/Zr additions. <i>Rare Metals</i> , 2021 , 40, 2514-2522	5.5	1
12	Combined Effects of Pre-deformation and Pre-aging on the Mechanical Properties of Al-Cu-Mg Alloy with Sc and Zr Addition. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018 , 33, 680-687	1	1
11	Interface modulation mechanism of alloying elements on the interface interaction and mechanical properties of graphene/copper composites. <i>Applied Surface Science</i> , 2022 , 571, 151314	6.7	1
10	Simultaneously optimizing pore morphology and enhancing mechanical properties of Al-Si alloy composite foams by graphene nanosheets. <i>Journal of Materials Science and Technology</i> , 2022 , 101, 60-70	9.1	1
9	Cu Atoms-assisted rapid fabrication of graphene/Al composites with tailored strain-delocalization effect by spark plasma sintering. <i>Materials Research Letters</i> , 2022 , 10, 567-574	7.4	1
8	Data-driven design and controllable synthesis of Pt/carbon electrocatalysts for H evolution. <i>IScience</i> , 2021 , 24, 103430	6.1	0
7	Regulation of the Interface Binding and Elastic Properties of SiC/Ti via Doping-Induced Electronic Localization. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900163	1.3	0
6	Defect Effects on the Interfacial Interactions between a (5, 5) Carbon Nanotube and an Al (111) Surface. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 809-817	3.1	0
5	Microstructural evolution and mechanical behavior of in situ synthesized MgAl ₂ O ₄ whiskers reinforced 6061 Al alloy composite after hot extrusion and annealing. <i>Rare Metals</i> , 2018 , 1	5.5	0
4	Microstructural characteristic and mechanical properties of the in-situ MgAl ₂ O ₄ reinforced Al matrix composite based on Al-Mg-ZnO system. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161991	5.7	0
3	Interface bonding and mechanical properties of copper/graphene interface doped with rare earth elements: First principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 142, 115260	3	0
2	Ultrafine Fe ₃ N nanocrystals coupled with N doped 3D porous carbon networks induced atomically dispersed Fe for superior sodium ion storage. <i>Carbon</i> , 2022 , 196, 795-806	10.4	0
1	NaCl-pinned antimony nanoparticles combined with ion-shuttle-induced graphitized 3D carbon to boost sodium storage. <i>Cell Reports Physical Science</i> , 2022 , 100891	6.1	

