

Chunnian He

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

6,225
citations

40
h-index

78
g-index

104
ext. papers

7,092
ext. citations

9
avg, IF

6.06
L-index

#	Paper	IF	Citations
102	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
101	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
100	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}	9.1	1
99	Two Birds with One Stone: A NaCl-Assisted Strategy toward MoTe ₂ Nanosheets Nanoconfined in 3D Porous Carbon Network for Sodium-Ion Battery Anode. <i>Energy Storage Materials</i> , 2022 , 47, 591-601	19.4	1
98	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	
97	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
96	Data-driven design and controllable synthesis of Pt/carbon electrocatalysts for H evolution.. <i>IScience</i> , 2021 , 24, 103430	6.1	0
95	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
94	Copper-Coated Graphene Nanoplatelets-Reinforced AlBi Alloy Matrix Composites Fabricated by Stir Casting Method. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 111-124	2.5	6
93	Heterostructure Engineering of Core-Shelled Sb@Sb O Encapsulated in 3D N-Doped Carbon Hollow-Spheres for Superior Sodium/Potassium Storage. <i>Small</i> , 2021 , 17, e2006824	11	23
92	Bi-functional modular graphene network with high rate and cycling performance. <i>Journal of Power Sources</i> , 2021 , 504, 230075	8.9	2
91	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
90	Spatially uniform Li deposition realized by 3D continuous duct-like graphene host for high energy density Li metal anode. <i>Carbon</i> , 2020 , 161, 198-205	10.4	16
89	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
88	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
87	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
86	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

85	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
84	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
83	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
82	Monodisperse multicore-shell SnSb@SnO _x /SbO _x @C nanoparticles space-confined in 3D porous carbon networks as high-performance anode for Li-ion and Na-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 371, 356-365	14.7	38
81	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
80	Compressive responses and strengthening mechanisms of aluminum composite foams reinforced with graphene nanosheets. <i>Carbon</i> , 2019 , 153, 396-406	10.4	7
79	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
78	An in-plane CoS@MoS heterostructure for the hydrogen evolution reaction in alkaline media. <i>Nanoscale</i> , 2019 , 11, 21479-21486	7.7	20
77	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
76	Synthesis of interconnected carbon nanosheets anchored with Fe ₃ O ₄ nanoparticles as broadband electromagnetic wave absorber. <i>Chemical Physics Letters</i> , 2019 , 716, 221-226	2.5	8
75	Bio-inspired three-dimensional carbon network with enhanced mass-transfer ability for supercapacitors. <i>Carbon</i> , 2019 , 143, 728-735	10.4	20
74	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
73	Effectively reinforced load transfer and fracture elongation by forming Al ₄ C ₃ for in-situ synthesizing carbon nanotube reinforced Al matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 182-189	5.3	33
72	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
71	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
70	Facile synthesis and electrochemical properties of continuous porous spheres assembled from defect-rich, interlayer-expanded, and few-layered MoS ₂ /C nanosheets for reversible lithium storage. <i>Journal of Power Sources</i> , 2018 , 387, 16-23	8.9	43
69	In-situ synthesis of graphene nanosheets coated copper for preparing reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 709, 65-71	5.3	37
68	In-situ space-confined catalysis for fabricating 3D mesoporous graphene and their capacitive properties. <i>Applied Surface Science</i> , 2018 , 433, 568-574	6.7	12

67	High strain rate dynamic compressive properties and deformation behavior of Al matrix composite foams reinforced by in-situ grown carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 487-495	5.3	17
66	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
65	Ultrasmall Fe ₂ GeO ₄ 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	6.7	31
64	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
63	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
62	In-situ grown CNTs modified SiO ₂ /C composites as anode with improved cycling stability and rate capability for lithium storage. <i>Applied Surface Science</i> , 2018 , 433, 428-436	6.7	30
61	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
60	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
59	Controllable graphene incorporation and defect engineering in MoS ₂ -TiO ₂ based composites: Towards high-performance lithium-ion batteries anode materials. <i>Nano Energy</i> , 2017 , 33, 247-256	17.1	114
58	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
57	Multi-functional integration of pore P25@C@MoS ₂ core-double shell nanostructures as robust ternary anodes with enhanced lithium storage properties. <i>Applied Surface Science</i> , 2017 , 401, 232-240	6.7	22
56	Elevated temperature compressive properties and energy absorption response of in-situ grown CNT-reinforced Al composite foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 690, 294-302	5.3	34
55	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
54	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
53	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
52	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
51	Three-dimensional graphene anchored Fe ₂ O ₃ @C core-shell nanoparticles as supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 956-963	5.7	31
50	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

49	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
48	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
47	Damping characteristics of Al matrix composite foams reinforced by in-situ grown carbon nanotubes. <i>Materials Letters</i> , 2017 , 209, 68-70	3.3	21
46	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
45	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
44	Metal-organic frameworks-derived honeycomb-like Co ₃ O ₄ /three-dimensional graphene networks/Ni foam hybrid as a binder-free electrode for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 16-24	5.7	96
43	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	6.7	33
42	Synthesis of SiO ₂ /3D porous carbon composite as anode material with enhanced lithium storage performance. <i>Chemical Physics Letters</i> , 2016 , 651, 19-23	2.5	32
41	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
40	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
39	Hierarchically structured carbon-coated SnO ₂ -Fe ₃ O ₄ microparticles with enhanced lithium storage performance. <i>Applied Surface Science</i> , 2016 , 361, 1-10	6.7	21
38	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	1.8	23
37	Effect of carbon nanotube (CNT) content on the properties of in-situ synthesis CNT reinforced Al composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 660, 11-18	5.3	94
36	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
35	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
34	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
33	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
32	Three-dimensional core-shell Fe ₂ O ₃ @ carbon/carbon cloth as binder-free anode for the high-performance lithium-ion batteries. <i>Applied Surface Science</i> , 2016 , 390, 350-356	6.7	55

31	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
30	Facile synthesis of 3D few-layered MoS ₂ -coated TiO ₂ -nanosheet core-shell nanostructures for stable and high-performance lithium-ion batteries. <i>Nanoscale</i> , 2015 , 7, 12895-905	7.7	75
29	Carbon-coated Fe ₂ O ₃ nanocrystals with enhanced lithium storage capability. <i>Applied Surface Science</i> , 2015 , 347, 178-185	6.7	40
28	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
27	Synergistic effect of CNTs reinforcement and precipitation hardening in in-situ CNTs/Al ₂ O ₃ composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 633, 103-111	5.3	36
26	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
25	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
24	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
23	Fabrication of Nanocarbon Composites Using In Situ Chemical Vapor Deposition and Their Applications. <i>Advanced Materials</i> , 2015 , 27, 5422-31	24	43
22	Graphene networks anchored with Sn@graphene as lithium ion battery anode. <i>ACS Nano</i> , 2014 , 8, 1728-38.7	38.7	533
21	Anomalous interfacial lithium storage in graphene/TiO ₂ for lithium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18147-51	9.5	54
20	Chemical vapor deposition synthesis of carbon nanospheres over Fe-based glassy alloy particles. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 816-822	5.7	5
19	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
18	One-pot synthesis of uniform Fe ₃ O ₄ nanocrystals encapsulated in interconnected carbon nanospheres for superior lithium storage capability. <i>Carbon</i> , 2013 , 57, 130-138	10.4	93
17	Mechanical properties and interfacial analysis of aluminum matrix composites reinforced by carbon nanotubes with diverse structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 577, 120-124	5.3	36
16	Porous graphitic carbon nanosheets as a high-rate anode material for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9537-45	9.5	128
15	Cycle performance improvement of Li-rich layered cathode material Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ by ZrO ₂ coating. <i>Surface and Coatings Technology</i> , 2013 , 235, 570-576	4.4	82
14	Fabrication of carbon nanotube reinforced Al composites with well-balanced strength and ductility. <i>Journal of Alloys and Compounds</i> , 2013 , 563, 216-220	5.7	73

13	Effect of amorphous FePO ₄ coating on structure and electrochemical performance of Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ as cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 236, 25-32	8.9	168
12	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
11	Preparation of reduced graphene oxide/Fe ₃ O ₄ nanocomposite and its microwave electromagnetic properties. <i>Materials Letters</i> , 2013 , 91, 209-212	3.3	86
10	Hierarchical porous carbon with graphitic structure synthesized by a water soluble template method. <i>Materials Letters</i> , 2012 , 87, 77-79	3.3	35
9	Enhanced electrochemical performance of LiFePO ₄ cathode with in-situ chemical vapor deposition synthesized carbon nanotubes as conductor. <i>Journal of Power Sources</i> , 2012 , 220, 264-268	8.9	49
8	Synthesis of uniformly dispersed carbon nanotube reinforcement in Al powder for preparing reinforced Al composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1833-1839	8.4	50
7	The influences of synthesis temperature and Ni catalyst on the growth of carbon nanotubes by chemical vapor deposition. <i>Materials Letters</i> , 2008 , 62, 1472-1475	3.3	29
6	Thermogravimetric analysis and TEM characterization of the oxidation and defect sites of carbon nanotubes synthesized by CVD of methane. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 473, 355-359	5.3	43
5	Synthesis of carbon nanostructures with different morphologies by CVD of methane. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 255-260	5.3	28
4	Carbon onion growth enhanced by nitrogen incorporation. <i>Scripta Materialia</i> , 2006 , 54, 1739-1743	5.6	14
3	Fabrication and growth mechanism of carbon nanotubes by catalytic chemical vapor deposition. <i>Materials Letters</i> , 2006 , 60, 159-163	3.3	64
2	Study of aluminum powder as transition metal catalyst carrier for CVD synthesis of carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 441, 266-270	5.3	16
1	Recent Developments of Antimony-Based Anodes for Sodium- and Potassium-Ion Batteries. <i>Transactions of Tianjin University</i> , 1	2.9	2