En-Zuo Liu

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#	Paper	IF	Citations
210	Carbon-encapsulated Fe3O4 nanoparticles as a high-rate lithium ion battery anode material. <i>ACS Nano</i> , 2013 , 7, 4459-69	16.7	824
209	Graphene networks anchored with sn@graphene as lithium ion battery anode. ACS Nano, 2014, 8, 1728	-38 .7	533
208	2D Space-Confined Synthesis of Few-Layer MoS2 Anchored on Carbon Nanosheet for Lithium-Ion Battery Anode. <i>ACS Nano</i> , 2015 , 9, 3837-48	16.7	494
207	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
206	Effect of amorphous FePO4 coating on structure and electrochemical performance of Li1.2Ni0.13Co0.13Mn0.54O2 as cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 236, 25-32	8.9	168
205	Thermal decomposition-reduced layer-by-layer nitrogen-doped graphene/MoS2/nitrogen-doped graphene heterostructure for promising lithium-ion batteries. <i>Nano Energy</i> , 2017 , 41, 154-163	17.1	160
204	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
203	Boosting the Photocatalytic Activity of P25 for Carbon Dioxide Reduction by using a Surface-Alkalinized Titanium Carbide MXene as Cocatalyst. <i>ChemSusChem</i> , 2018 , 11, 1606-1611	8.3	142
202	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. <i>Energy and Environmental Science</i> , 2020 , 13, 1096-1131	35.4	135
201	2D sandwich-like carbon-coated ultrathin TiO2@defect-rich MoS2 hybrid nanosheets: Synergistic-effect-promoted electrochemical performance for lithium ion batteries. <i>Nano Energy</i> , 2016 , 26, 541-549	17.1	129
200	Porous graphitic carbon nanosheets as a high-rate anode material for lithium-ion batteries. <i>ACS Applied Materials & Discours amp; Interfaces</i> , 2013 , 5, 9537-45	9.5	128
199	Controllable graphene incorporation and defect engineering in MoS2-TiO2 based composites: Towards high-performance lithium-ion batteries anode materials. <i>Nano Energy</i> , 2017 , 33, 247-256	17.1	114
198	Covalent functionalization of graphene by azobenzene with molecular hydrogen bonds for long-term solar thermal storage. <i>Scientific Reports</i> , 2013 , 3, 3260	4.9	107
197	N-Doped Graphene Modified 3D Porous Cu Current Collector toward Microscale Homogeneous Li Deposition for Li Metal Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1800914	21.8	107
196	Fabrication of in-situ grown graphene reinforced Cu matrix composites. <i>Scientific Reports</i> , 2016 , 6, 1936	5 3 4.9	106
195	Rational design of Co9S8/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
194	MetalBrganic frameworks-derived honeycomb-like Co3O4/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

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193	composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 660, 11-18	5.3	94
192	One-pot synthesis of uniform Fe3O4 nanocrystals encapsulated in interconnected carbon nanospheres for superior lithium storage capability. <i>Carbon</i> , 2013 , 57, 130-138	10.4	93
191	CeO -Decorated NiFe-Layered Double Hydroxide for Efficient Alkaline Hydrogen Evolution by Oxygen Vacancy Engineering. <i>ACS Applied Materials & District Research (No. 10, 35145-35153)</i>	9.5	93
190	Sandwiched C@SnO2@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
189	Fabrication of three-dimensional graphene/Cu composite by in-situ CVD and its strengthening mechanism. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 69-76	5.7	88
188	Improve the Supercapacity Performance of MnO2-Decorated Graphene by Controlling the Oxidization Extent of Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25226-25232	3.8	87
187	Preparation of reduced graphene oxide/Fe3O4 nanocomposite and its microwave electromagnetic properties. <i>Materials Letters</i> , 2013 , 91, 209-212	3.3	86
186	Magnetic behavior of graphene absorbed with N, O, and F atoms: A first-principles study. <i>Applied Physics Letters</i> , 2008 , 93, 082504	3.4	86
185	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
184	Salt-template-assisted synthesis of robust 3D honeycomb-like structured MoS2 and its application as a lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8734-8741	13	85
183	Cycle performance improvement of Li-rich layered cathode material Li[Li0.2Mn0.54Ni0.13Co0.13]O2 by ZrO2 coating. <i>Surface and Coatings Technology</i> , 2013 , 235, 570-576	4.4	82
182	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
181	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. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8109-8119	13	79
180	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 & Discourse Materials (Materials & Discours)</i>	9.5	79
179	Stability, electronic, and magnetic behaviors of Cu adsorbed graphene: A first-principles study. <i>Applied Physics Letters</i> , 2009 , 94, 102505	3.4	77
178	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
177	Understanding electronic and optical properties of anatase TiO2 photocatalysts co-doped with nitrogen and transition metals. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9549-61	3.6	76
176	Mo2C coating on diamond: Different effects on thermal conductivity of diamond/Al and diamond/Cu composites. <i>Applied Surface Science</i> , 2017 , 402, 372-383	6.7	75

175	Facile synthesis of 3D few-layered MoSIcoated TiOIhanosheet core-shell nanostructures for stable and high-performance lithium-ion batteries. <i>Nanoscale</i> , 2015 , 7, 12895-905	7.7	75
174	A high energy density azobenzene/graphene hybrid: a nano-templated platform for solar thermal storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11787-11795	13	74
173	Fabrication of carbon nanotube reinforced Al composites with well-balanced strength and ductility. Journal of Alloys and Compounds, 2013 , 563, 216-220	5.7	73
172	Synthesis of hollow carbon nano-onions and their use for electrochemical hydrogen storage. <i>Carbon</i> , 2012 , 50, 3513-3521	10.4	70
171	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	17.1	64
170	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
169	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
168	Effect of Sc/Zr ratio on the microstructure and mechanical properties of new type of AlanMgBcar alloys. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2014 , 617, 219-227	5.3	56
167	Effect of Interface Structure on the Mechanical Properties of Graphene Nanosheets Reinforced Copper Matrix Composites. <i>ACS Applied Materials & District Materials</i> , 10, 37586-37601	9.5	56
166	Evolution of microstructure and properties of Al᠒nϺgជួuΒc᠒r alloy during aging treatment. Journal of Alloys and Compounds, 2016 , 658, 946-951	5.7	55
165	Three-dimensional core-shell Fe2O3 @ 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
164	Anomalous interfacial lithium storage in graphene/TiO2 for lithium ion batteries. <i>ACS Applied Materials & ACS Applied Materials & ACS Applied</i>	9.5	54
163	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
162	Highly Surface-Wrinkled and N-Doped CNTs Anchored on Metal Wire: A Novel Fiber-Shaped Cathode toward High-Performance Flexible LittO2 Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1808117	15.6	52
161	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
160	A large ultrathin anatase TiO2 nanosheet/reduced graphene oxide composite with enhanced lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8893	13	52
159	The efficient synthesis of carbon nano-onions using chemical vapor deposition on an unsupported Ni E e alloy catalyst. <i>Carbon</i> , 2011 , 49, 1151-1158	10.4	51
158	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

157	Ferromagnetism induced by defect complex in Co-doped ZnO. <i>Applied Physics Letters</i> , 2008 , 93, 132506	3.4	50
156	In situ synthesis of ultrathin 2-D TiO2 with high energy facets on graphene oxide for enhancing photocatalytic activity. <i>Carbon</i> , 2014 , 68, 352-359	10.4	49
155	Enhanced electrochemical performance of LiFePO4 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
154	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, 1600	0 7 55	48
153	Electrochemical hydrogen storage of expanded graphite decorated with TiO2 nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5762-5768	6.7	48
152	Enhanced electrochemical hydrogen storage capacity of multi-walled carbon nanotubes by TiO2 decoration. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6739-6743	6.7	48
151	Hydrogen spillover storage on Ca-decorated graphene. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11835-11841	6.7	47
150	Continuously hierarchical nanoporous graphene film for flexible solid-state supercapacitors with excellent performance. <i>Nano Energy</i> , 2016 , 24, 158-164	17.1	47
149	High-energy, stable and recycled molecular solar thermal storage materials using AZO/graphene hybrids by optimizing hydrogen bonds. <i>Nanoscale</i> , 2015 , 7, 16214-21	7.7	45
148	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
147	Effect of Sc and Zr additions on microstructures and corrosion behavior of Al-Cu-Mg-Sc-Zr alloys. Journal of Materials Science and Technology, 2017 , 33, 1015-1022	9.1	43
146	Facile synthesis and electrochemical properties of continuous porous spheres assembled from defect-rich, interlayer-expanded, and few-layered MoS2/C nanosheets for reversible lithium storage. <i>Journal of Power Sources</i> , 2018 , 387, 16-23	8.9	43
145	Fabrication of Nanocarbon Composites Using In Situ Chemical Vapor Deposition and Their Applications. <i>Advanced Materials</i> , 2015 , 27, 5422-31	24	43
144	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	9.5	42
143	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
142	Carbon-coated Fe2O3 nanocrystals with enhanced lithium storage capability. <i>Applied Surface Science</i> , 2015 , 347, 178-185	6.7	40
141	Synthesis of uniform and superparamagnetic Fe3O4 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
140	Ni-Co-Mo-O nanosheets decorated with NiCo nanoparticles as advanced electrocatalysts for highly efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117953	21.8	39

139	In-situ synthesis of graphene nanosheets coated copper for preparing reinforced aluminum matrix composites. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2018 , 709, 65-71	5.3	37	
138	Graphene Oxide-Assisted Synthesis of Microsized Ultrathin Single-Crystalline Anatase TiO2 Nanosheets and Their Application in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2016 , 8, 2495-504	9.5	37	
137	Synergistic effect of CNTs reinforcement and precipitation hardening in in-situ CNTs/Altu composites. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 633, 103-111	5.3	36	
136	Magnetism of O-Terminated ZnO(0001) with Adsorbates. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1	61 <u>3</u> &16	513⁄0	
135	Sandwiched graphene inserted with graphene-encapsulated yolkEhell Fe2O3 nanoparticles for efficient lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7035-7042	13	35	
134	Hierarchical porous carbon with graphitic structure synthesized by a water soluble template method. <i>Materials Letters</i> , 2012 , 87, 77-79	3.3	35	
133	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	
132	Effectively reinforced load transfer and fracture elongation by forming Al4C3 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	5.3	33	
131	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	
130	In situ synthesis of a gamma-Al2O3 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	
129	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	
128	Compressive properties and energy absorption of aluminum composite foams reinforced by in-situ generated MgAl 2 O 4 whiskers. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 1-7	5.3	32	
127	Synthesis of SiO2/3D porous carbon composite as anode material with enhanced lithium storage performance. <i>Chemical Physics Letters</i> , 2016 , 651, 19-23	2.5	32	
126	Enhanced electrochemical hydrogen evolution performance of WS2 nanosheets by Te doping. <i>Journal of Catalysis</i> , 2020 , 382, 204-211	7.3	32	
125	Three-dimensional graphene anchored Fe2O3@C core-shell nanoparticles as supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 956-963	5.7	31	
124	Distorted 1T-ReS Nanosheets Anchored on Porous TiO Nanofibers for Highly Enhanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials & District Amplied M</i>	9.5	31	
123	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	
122	Ultrasmall Fe2GeO4 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	

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121	Surface double phase network modified lithium rich layered oxides with improved rate capability for Li-ion batteries. <i>ACS Applied Materials & Distriction and Section 2015</i> , 7, 391-9	9.5	30	
120	EthanolWater exchangelhanobubbles templated hierarchical hollow EMo2C/N-doped carbon composite nanospheres as an efficient hydrogen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6054-6064	13	30	
119	In-situ grown CNTs modified SiO2/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	
118	Three-dimensionally hierarchical Co3O4/Carbon composites with high pseudocapacitance contribution for enhancing lithium storage. <i>Electrochimica Acta</i> , 2018 , 283, 1269-1276	6.7	29	
117	Nanostructured hybrid layered-spinel cathode material synthesized by hydrothermal method for lithium-ion batteries. <i>ACS Applied Materials & Samp; Interfaces</i> , 2014 , 6, 8363-8	9.5	29	
116	Electronic reconfiguration of Co2P induced by Cu doping enhancing oxygen reduction reaction activity in zinc batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21232-21243	13	28	
115	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	
114	Interface and Doping Effects on Li Ion Storage Behavior of Graphene/Li2O. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19559-19567	3.8	27	
113	Surface magnetism in amine-capped ZnO nanoparticles. <i>Nanotechnology</i> , 2009 , 20, 165702	3.4	27	
112	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. <i>ACS Energy Letters</i> ,1511-1520	20.1	27	
111	Enhanced Hydrogen Evolution Reaction Performance of NiCoP by Filling Oxygen Vacancies by Phosphorus in Thin-Coating CeO. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 32460-32468	9.5	26	
110	Synthesis of three-dimensional carbon networks decorated with Fe3O4 nanoparticles as lightweight and broadband electromagnetic wave absorber. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 691-701	5.7	26	
109	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	
108	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	
107	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	
106	Fabrication of aluminum matrix composites with enhanced mechanical properties reinforced by in situ generated MgAl2O4 whiskers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 631	-63 4	25	
105	Effect of Hydrogen Molecule Dissociation on Hydrogen Storage Capacity of Graphene with Metal Atom Decorated. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 839-844	3.8	24	
104	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	

103	Microstructure and properties of in situ generated MgAl2O4 spinel whisker reinforced aluminum matrix composites. <i>Materials & Design</i> , 2013 , 46, 724-730		23
102	Surfactant-Free Synthesis of Single Crystalline SnS2and Effect of Surface Atomic Structure on the Photocatalytic Property. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-7	2.1	23
101	Multi-functional integration of pore P25@C@MoS2 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
100	Carbon and few-layer MoS2 nanosheets co-modified TiO2 nanosheets with enhanced electrochemical properties for lithium storage. <i>Rare Metals</i> , 2018 , 37, 107-117	5.5	22
99	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
98	Carbon-coated Ni3Sn2 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
97	Towards strength-ductility synergy with favorable strengthening effect through the formation of a quasi-continuous graphene nanosheets coated Ni structure in aluminum matrix composite. Materials Science & Composite of the Comp	5.3	22
96	, 2019 , 748, 52-58 In situ fabrication of Ni(OH)2/Cu2O nanosheets on nanoporous NiCu alloy for high performance supercapacitor. <i>Electrochimica Acta</i> , 2018 , 283, 970-978	6.7	22
95	Smart hybridization of Sn2Nb2O7/SnO2@3D carbon nanocomposites with enhanced sodium storage performance through self-buffering effects. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13052-1	3 Ó ể1	21
94	Hierarchically structured carbon-coated SnO2-Fe3O4 microparticles with enhanced lithium storage performance. <i>Applied Surface Science</i> , 2016 , 361, 1-10	6.7	21
93	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
92	Ultrafine Ni(OH)2 nanoneedles on N-doped 3D rivet graphene film for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 625-632	5.7	21
91	In situ synthesized Li2S@porous carbon cathode for graphite/Li2S full cells using ether-based electrolyte. <i>Electrochimica Acta</i> , 2017 , 256, 348-356	6.7	20
90	In-situ fabrication of nano-sized TiO2 reinforced Cu matrix composites with well-balanced mechanical properties and electrical conductivity. <i>Powder Technology</i> , 2017 , 321, 66-73	5.2	20
89	Accelerating water dissociation kinetics on Ni3S2 nanosheets by P-induced electronic modulation. Journal of Catalysis, 2020 , 381, 493-500	7.3	20
88	Azobenzene/graphene hybrid for high-density solar thermal storage by optimizing molecular structure. <i>Science China Technological Sciences</i> , 2016 , 59, 1383-1390	3.5	20
87	An in-plane CoS@MoS heterostructure for the hydrogen evolution reaction in alkaline media. <i>Nanoscale</i> , 2019 , 11, 21479-21486	7.7	20
86	Bio-inspired three-dimensional carbon network with enhanced mass-transfer ability for supercapacitors. <i>Carbon</i> , 2019 , 143, 728-735	10.4	20

(2018-2019)

85	Enhanced mechanical properties and electrical conductivity of graphene nanoplatelets/Cu composites by in situ formation of Mo2C nanoparticles. <i>Materials Science & Discourse amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138365	5.3	19
84	Activated Carbon Nanochains with Tailored Micro-Meso Pore Structures and Their Application for Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21810-21817	3.8	19
83	In situ synthesis of Ti2AlCAl2O3/TiAl composite by vacuum sintering mechanically alloyed TiAl powder coated with CNTs. <i>Journal of Alloys and Compounds</i> , 2013 , 578, 481-487	5.7	19
82	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
81	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
80	Adhesion, bonding and mechanical properties of Mo doped diamond/Al (Cu) interfaces: A first principles study. <i>Applied Surface Science</i> , 2020 , 527, 146817	6.7	18
79	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, 18535-1854	.13	18
78	Low-temperature synthesis of aluminum borate nanowhiskers on the surface of aluminum powder promoted by ball-milling pretreatment. <i>Powder Technology</i> , 2011 , 212, 310-315	5.2	18
77	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
76	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
75	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
74	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
73	{010}-Oriented micro-flower-like hierarchical Bi2WO6 with high adsorptivity and visible-light-driven photoactivity: experimental studies and first-principles modeling. <i>Applied Surface Science</i> , 2015 , 324, 698-704	6.7	16
7 2	In-situ processing and aging behaviors of MgAl2O4 spinel whisker reinforced 6061Al composite. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 114-121	5.3	14
71	In-situ synthesis of MgAl2O4 nanowhiskers reinforced 6061 aluminum alloy composites by reaction hot pressing. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2014 , 617, 235-242	5.3	14
70	ReS2 nanosheets anchored on rGO as an efficient polysulfides immobilizer and electrocatalyst for Li-S batteries. <i>Applied Surface Science</i> , 2020 , 505, 144586	6.7	14
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64	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
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62	Synthesis of novel carbon nano-chains and their application as supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16268-16275	13	12
61	Surface State Induced Ferromagnetism in Co- and Mn-Doped ZnO Surfaces. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3368-3371	3.8	12
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59	Low-temperature synthesis of multi-walled carbon nanotubes over Cu catalyst. <i>Materials Letters</i> , 2012 , 72, 164-167	3.3	11
58	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
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51	Ultrahigh volumetric capacitance and cycle stability via structure design and synergistic action between CoMoO4 nanosheets and 3D porous Ni-Co film. <i>Applied Surface Science</i> , 2019 , 465, 389-396	6.7	9
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48	Covalently bonded 3D rebar graphene foam for ultrahigh-areal-capacity lithium-metal anodes by in-situ loose powder metallurgy synthesis. <i>Carbon</i> , 2020 , 158, 536-544	10.4	8
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45	Hetero-structure effect on Na adsorption and diffusion in two dimensional composites. <i>Electrochimica Acta</i> , 2018 , 285, 309-316	6.7	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	Adsorption of hydrogen atoms on graphene with TiO2 decoration. <i>Journal of Applied Physics</i> , 2013 , 113, 153708	2.5	7
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32	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 & Amp; Interfaces</i> , 2020 , 12, 17528-17537	9.5	4

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30	Achieving prominent strengthening efficiency of graphene nanosheets in Al matrix composites by hybrid deformation. <i>Carbon</i> , 2021 , 183, 530-545	10.4	4
29	Architectured 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
28	Interfacial chemical bonding between carbon nanotube and aluminum substrate modulated by alloying elements. <i>Diamond and Related Materials</i> , 2015 , 59, 1-6	3.5	3
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13	Regulation of the interface binding and mechanical properties of TiB/Ti via doping-induced chemical and structural effects. <i>Computational Materials Science</i> , 2020 , 174, 109506	3.2	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	Electronic Reconfiguration of Metal Rhenium Induced by Strong MetalBupport Interaction Enhancing the Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100545	4.6	1
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8	Two Birds with One Stone: A NaCl-Assisted Strategy toward MoTe2 Nanosheets Nanoconfined in 3D Porous Carbon Network for Sodium-Ion Battery Anode. <i>Energy Storage Materials</i> , 2022 , 47, 591-601	19.4	1
7	Lithiophilic Property of Artificial Alkoxides and Mercaptide Layers to Guide Uniform Li Nucleation for Stable Lithium Metal Anodes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22493-22501	3.8	0
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4	Microstructural evolution and mechanical behavior of in situ synthesized MgAl2O4 whiskers reinforced 6061 Al alloy composite after hot extrusion and annealing. <i>Rare Metals</i> , 2018 , 1	5.5	O
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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	