En-Zuo Liu

List of Publications by Year in Descending Order

210 papers	9,256 citations	51 h-index	87 g-index
217 ext. papers	10,880 ext. citations	8 avg, IF	6.44 L-index

#	Paper	IF	Citations
210	Unraveling the Mechanism of Ion-Migration Suppression by Interstitial Doping for Operationally Stable CsPbI2Br Perovskite Solar Cells. *Chemistry of Materials*, **2022**, 34, 1010-1019	9.6	1
209	Exceptional mechanical properties of aluminum matrix composites with heterogeneous structure induced by in-situ graphene nanosheet-Cu hybrids. *Composites Part B: Engineering*, **2022**, 234, 109731	10	3
208	Comprehensive performance regulation of Cu matrix composites with graphene nanoplatelets in situ encapsulated Al2O3 nanoparticles as reinforcement. *Carbon*, **2022**, 188, 81-94	10.4	2
207	Interface modulation mechanism of alloying elements on the interface interaction and mechanical properties of graphene/copper composites. *Applied Surface Science*, **2022**, 571, 151314	6.7	1
206	Interface Engineering of MoS2-based Ternary Hybrids towards Reversible Conversion of Sodium Storage. *Materials Today Energy*, **2022**, 100993	7	1
205	Two Birds with One Stone: A NaCl-Assisted Strategy toward MoTe2 Nanosheets Nanoconfined in 3D Porous Carbon Network for Sodium-Ion Battery Anode. *Energy Storage Materials*, **2022**, 47, 591-601	19.4	1
204	Interface bonding and mechanical properties of copper/graphene interface doped with rare earth elements: First principles calculations. *Physica E: Low-Dimensional Systems and Nanostructures*, **2022**, 142, 115260	3	0
203	Engineering Pocket-Like Graphene Shell Encapsulated FeS 2 : Inhibiting Polysulfides Shuttle Effect in Potassium-Ion Batteries. *Advanced Functional Materials*, **2022**, 32, 2109899	15.6	2
202	NaCl-pinned antimony nanoparticles combined with ion-shuttle-induced graphitized 3D carbon to boost sodium storage. *Cell Reports Physical Science*, **2022**, 100891	6.1	
201	Ultrafine Fe3N nanocrystals coupled with N doped 3D porous carbon networks induced atomically dispersed Fe for superior sodium ion storage. *Carbon*, **2022**, 196, 795-806	10.4	0
200	Lithiophilic Property of Artificial Alkoxides and Mercaptide Layers to Guide Uniform Li Nucleation for Stable Lithium Metal Anodes. *Journal of Physical Chemistry C*, **2021**, 125, 22493-22501	3.8	0
199	Boosting the charge transfer efficiency of metal oxides/carbon nanotubes composites through interfaces control. *Journal of Power Sources*, **2021**, 489, 229501	8.9	4
198	W Clusters Assisted Synthesis of Layered Carbon Nanotube Arrays on Graphene Achieving High-Rate Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 19117-19127	9.5	2
197	Unraveling the mechanism of hydrogen evolution reaction on cobalt compound electrocatalysts. *Applied Surface Science*, **2021**, 550, 149355	6.7	3
196	In-situ Al2O3-Al interface contribution towards the strength-ductility synergy of Al-CuO composite fabricated by solid-state reactive sintering. *Scripta Materialia*, **2021**, 198, 113825	5.6	14
195	High strength-ductility synergy of MgAlB4 whisker reinforced aluminum matrix composites achieved by in situ synthesis. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 799, 140127	5.3	7
194	Effects of active elements on adhesion of the Al2O3/Fe interface: A first principles calculation. *Computational Materials Science*, **2021**, 188, 110226	3.2	6

193	Revealing the strengthening and toughening mechanisms of Al-CuO composite fabricated via in-situ solid-state reaction. *Acta Materialia*, **2021**, 204, 116524	8.4	18
192	Graphite Carbon Nanosheet-Coated Cobalt-Doped Molybdenum Carbide Nanoparticles for Efficient Alkaline Hydrogen Evolution Reaction. *ACS Applied Nano Materials*, **2021**, 4, 372-380	5.6	5
191	Electronic Reconfiguration of Metal Rhenium Induced by Strong Metal Support Interaction Enhancing the Hydrogen Evolution Reaction. *Advanced Materials Interfaces*, **2021**, 8, 2100545	4.6	1
190	Surface reconstruction of CoO (111) and its effects on the formation of oxygen vacancy and OER activity. *Surface Science*, **2021**, 711, 121862	1.8	2
189	Achieving prominent strengthening efficiency of graphene nanosheets in Al matrix composites by hybrid deformation. *Carbon*, **2021**, 183, 530-545	10.4	4
188	Architectured interfacial interlocking structure for enhancing mechanical properties of Al matrix composites reinforced with graphene nanosheets. *Carbon*, **2021**, 183, 685-701	10.4	4
187	Microstructure evolution and tensile behavior of MgAlB4w/Al composites at high temperatures. *Journal of Alloys and Compounds*, **2021**, 884, 161088	5.7	2
186	Adhesion, bonding and mechanical properties of Mo doped diamond/Al (Cu) interfaces: A first principles study. *Applied Surface Science*, **2020**, 527, 146817	6.7	18
185	A powder-metallurgy-based strategy toward three-dimensional graphene-like network for reinforcing copper matrix composites. *Nature Communications*, **2020**, 11, 2775	17.4	57
184	Octopus-Inspired Design of Apical NiS Nanoparticles Supported on Hierarchical Carbon Composites as an Efficient Host for Lithium Sulfur Batteries with High Sulfur Loading. *ACS Applied Materials & Interfaces*, **2020**, 12, 17528-17537	9.5	4
183	Exfoliated multi-layered graphene anode with the broadened delithiation voltage plateau below 0.5□V. *Journal of Energy Chemistry*, **2020**, 49, 233-242	12	5
182	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. *Energy and Environmental Science*, **2020**, 13, 1096-1131	35.4	135
181	ReS2 nanosheets anchored on rGO as an efficient polysulfides immobilizer and electrocatalyst for Li-S batteries. *Applied Surface Science*, **2020**, 505, 144586	6.7	14
180	Regulation of the Interface Binding and Elastic Properties of SiC/Ti via Doping-Induced Electronic Localization. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900163	1.3	0
179	Covalently bonded 3D rebar graphene foam for ultrahigh-areal-capacity lithium-metal anodes by in-situ loose powder metallurgy synthesis. *Carbon*, **2020**, 158, 536-544	10.4	8
178	Enhanced electrochemical hydrogen evolution performance of WS2 nanosheets by Te doping. *Journal of Catalysis*, **2020**, 382, 204-211	7.3	32
177	Regulation of the interface binding and mechanical properties of TiB/Ti via doping-induced chemical and structural effects. *Computational Materials Science*, **2020**, 174, 109506	3.2	1
176	In situ synthesis of high content graphene nanoplatelets reinforced Cu matrix composites with enhanced thermal conductivity and tensile strength. *Powder Technology*, **2020**, 362, 126-134	5.2	19

175	Accelerating water dissociation kinetics on Ni3S2 nanosheets by P-induced electronic modulation. *Journal of Catalysis*, **2020**, 381, 493-500	7.3	20
174	Orientation Relationships and Interface Structure in MgAlO and MgAlB Co-Reinforced Al Matrix Composites. *ACS Applied Materials & Interfaces*, **2019**, 11, 42790-42800	9.5	11
173	Strongly coupled hollow-oxide/phosphide hybrid coated with nitrogen-doped carbon as highly efficient electrocatalysts in alkaline for hydrogen evolution reaction. *Journal of Catalysis*, **2019**, 377, 582-588	7.3	25
172	Yolk-shelled Sb@C nanoconfined nitrogen/sulfur co-doped 3D porous carbon microspheres for sodium-ion battery anode with ultralong high-rate cycling. *Nano Energy*, **2019**, 66, 104133	17.1	41
171	Enhanced mechanical properties and electrical conductivity of graphene nanoplatelets/Cu composites by in situ formation of Mo2C nanoparticles. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 766, 138365	5.3	19
170	Highly Surface-Wrinkled and N-Doped CNTs Anchored on Metal Wire: A Novel Fiber-Shaped Cathode toward High-Performance Flexible Li□O2 Batteries. *Advanced Functional Materials*, **2019**, 29, 1808117	15.6	52
169	Distorted 1T-ReS Nanosheets Anchored on Porous TiO Nanofibers for Highly Enhanced Photocatalytic Hydrogen Production. *ACS Applied Materials & Interfaces*, **2019**, 11, 23144-23151	9.5	31
168	Synergistic strengthening effect of alumina anchored graphene nanosheets hybrid structure in aluminum matrix composites. *Fullerenes Nanotubes and Carbon Nanostructures*, **2019**, 27, 640-649	1.8	7
167	Rational design of Co9S8/CoO heterostructures with well-defined interfaces for lithium sulfur batteries: A study of synergistic adsorption-electrocatalysis function. *Nano Energy*, **2019**, 60, 332-339	17.1	102
166	Electronic reconfiguration of Co2P induced by Cu doping enhancing oxygen reduction reaction activity in zinc□air batteries. *Journal of Materials Chemistry A*, **2019**, 7, 21232-21243	13	28
165	In-situ synthesis of MgAlB4 whiskers as a promising reinforcement for aluminum matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 764, 138229	5.3	12
164	ZnO nanoconfined 3D porous carbon composite microspheres to stabilize lithium nucleation/growth for high-performance lithium metal anodes. *Journal of Materials Chemistry A*, **2019**, 7, 19442-19452	13	25
163	Ni-Co-Mo-O nanosheets decorated with NiCo nanoparticles as advanced electrocatalysts for highly efficient hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 258, 117953	21.8	39
162	Interface intrinsic strengthening mechanism on the tensile properties of Al2O3/Al composites. *Computational Materials Science*, **2019**, 169, 109131	3.2	10
161	High-strength graphene network reinforced copper matrix composites achieved by architecture design and grain structure regulation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 762, 138063	5.3	13
160	Enhanced Hydrogen Evolution Reaction Performance of NiCoP by Filling Oxygen Vacancies by Phosphorus in Thin-Coating CeO. *ACS Applied Materials & Interfaces*, **2019**, 11, 32460-32468	9.5	26
159	An in-plane CoS@MoS heterostructure for the hydrogen evolution reaction in alkaline media. *Nanoscale*, **2019**, 11, 21479-21486	7.7	20
158	Synthesis of interconnected carbon nanosheets anchored with Fe3O4 nanoparticles as broadband electromagnetic wave absorber. *Chemical Physics Letters*, **2019**, 716, 221-226	2.5	8

157	Ultrafine Ni(OH)2 nanoneedles on N-doped 3D rivet graphene film for high-performance asymmetric supercapacitor. *Journal of Alloys and Compounds*, **2019**, 783, 625-632	5.7	21
156	Bio-inspired three-dimensional carbon network with enhanced mass-transfer ability for supercapacitors. *Carbon*, **2019**, 143, 728-735	10.4	20
155	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 748, 52-58	5.3	22
154	Capacitance controlled, hierarchical porous 3D ultra-thin carbon networks reinforced prussian blue for high performance Na-ion battery cathode. *Nano Energy*, **2019**, 58, 192-201	17.1	64
153	Synergistic effect of Cu on laminated graphene nanosheets/AlCu composites with enhanced mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 742, 201-210	5.3	18
152	Synthesis of three-dimensional carbon networks decorated with Fe3O4 nanoparticles as lightweight and broadband electromagnetic wave absorber. *Journal of Alloys and Compounds*, **2019**, 776, 691-701	5.7	26
151	Ultrahigh volumetric capacitance and cycle stability via structure design and synergistic action between CoMoO4 nanosheets and 3D porous Ni-Co film. *Applied Surface Science*, **2019**, 465, 389-396	6.7	9
150	Boosting the Photocatalytic Activity of P25 for Carbon Dioxide Reduction by using a Surface-Alkalinized Titanium Carbide MXene as Cocatalyst. *ChemSusChem*, **2018**, 11, 1606-1611	8.3	142
149	Ethanol□water exchange□nanobubbles templated hierarchical hollow □Mo2C/N-doped carbon composite nanospheres as an efficient hydrogen evolution electrocatalyst. *Journal of Materials Chemistry A*, **2018**, 6, 6054-6064	13	30
148	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	13	79
147	Enhanced interface interaction between modified carbon nanotubes and magnesium matrix. *Composite Interfaces*, **2018**, 25, 1101-1114	2.3	5
146	Effectively reinforced load transfer and fracture elongation by forming Al4C3 for in-situ synthesizing carbon nanotube reinforced Al matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 718, 182-189	5.3	33
145	Dopant-Modulating Mechanism of Lithium Adsorption and Diffusion at the Graphene/Li2S Interface. *Physical Review Applied*, **2018**, 9,	4.3	10
144	Carbon and few-layer MoS2 nanosheets co-modified TiO2 nanosheets with enhanced electrochemical properties for lithium storage. *Rare Metals*, **2018**, 37, 107-117	5.5	22
143	An approach for fabricating Ni@graphene reinforced nickel matrix composites with enhanced mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 715, 108-116	5.3	52
142	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	24	147
141	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. *Journal of Power Sources*, **2018**, 387, 16-23	8.9	43
140	In-situ synthesis of graphene nanosheets coated copper for preparing reinforced aluminum matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 709, 65-71	5.3	37

139	In-situ space-confined catalysis for fabricating 3D mesoporous graphene and their capacitive properties. *Applied Surface Science*, **2018**, 433, 568-574	6.7	12
138	High strain rate dynamic compressive properties and deformation behavior of Al matrix composite foams reinforced by in-situ grown carbon nanotubes. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 729, 487-495	5.3	17
137	Ultrasmall Fe2GeO4 nanodots anchored on interconnected carbon nanosheets as high-performance anode materials for lithium and sodium ion batteries. *Applied Surface Science*, **2018**, 427, 670-679	6.7	31
136	Three-dimensionally hierarchical Co3O4/Carbon composites with high pseudocapacitance contribution for enhancing lithium storage. *Electrochimica Acta*, **2018**, 283, 1269-1276	6.7	29
135	Nanotubular Ni-supported graphene @ hierarchical NiCo-LDH with ultrahigh volumetric capacitance for supercapacitors. *Applied Surface Science*, **2018**, 453, 230-237	6.7	13
134	Preparation and mechanical properties of in-situ synthesized nano-MgAl2O4 particles and MgxAl(1-x)B2 whiskers co-reinforced Al matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 735, 236-242	5.3	10
133	In situ synthesis of a gamma-Al2O3 whisker reinforced aluminium matrix composite by cold pressing and sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 709, 223-231	5.3	33
132	In-situ grown CNTs modified SiO2/C composites as anode with improved cycling stability and rate capability for lithium storage. *Applied Surface Science*, **2018**, 433, 428-436	6.7	30
131	Combined Effects of Pre-deformation and Pre-aging on the Mechanical Properties of Al-Cu-Mg Alloy with Sc and Zr Addition. *Journal Wuhan University of Technology, Materials Science Edition*, **2018**, 33, 680-687	1	1
130	Assembly Multifunctional Three-Dimensional Carbon Networks by Controlling Intermolecular Forces. *ACS Applied Materials & Interfaces*, **2018**, 10, 36284-36289	9.5	5
129	Effect of Interface Structure on the Mechanical Properties of Graphene Nanosheets Reinforced Copper Matrix Composites. *ACS Applied Materials & Interfaces*, **2018**, 10, 37586-37601	9.5	56
128	Microstructural evolution and mechanical behavior of in situ synthesized MgAl2O4 whiskers reinforced 6061 Al alloy composite after hot extrusion and annealing. *Rare Metals*, **2018**, 1	5.5	0
127	CeO -Decorated NiFe-Layered Double Hydroxide for Efficient Alkaline Hydrogen Evolution by Oxygen Vacancy Engineering. *ACS Applied Materials & Interfaces*, **2018**, 10, 35145-35153	9.5	93
126	Hetero-structure effect on Na adsorption and diffusion in two dimensional composites. *Electrochimica Acta*, **2018**, 285, 309-316	6.7	8
125	N-Doped Graphene Modified 3D Porous Cu Current Collector toward Microscale Homogeneous Li Deposition for Li Metal Anodes. *Advanced Energy Materials*, **2018**, 8, 1800914	21.8	107
124	In situ fabrication of Ni(OH)2/Cu2O nanosheets on nanoporous NiCu alloy for high performance supercapacitor. *Electrochimica Acta*, **2018**, 283, 970-978	6.7	22
123	Mo2C coating on diamond: Different effects on thermal conductivity of diamond/Al and diamond/Cu composites. *Applied Surface Science*, **2017**, 402, 372-383	6.7	75
122	Controllable graphene incorporation and defect engineering in MoS2-TiO2 based composites: Towards high-performance lithium-ion batteries anode materials. *Nano Energy*, **2017**, 33, 247-256	17.1	114

121	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
120	Ultrathin-Nanosheet-Induced Synthesis of 3D Transition Metal Oxides Networks for Lithium Ion Battery Anodes. *Advanced Functional Materials*, **2017**, 27, 1605017	15.6	249
119	Multi-functional integration of pore P25@C@MoS2 core-double shell nanostructures as robust ternary anodes with enhanced lithium storage properties. *Applied Surface Science*, **2017**, 401, 232-240	6.7	22
118	Elevated temperature compressive properties and energy absorption response of in-situ grown CNT-reinforced Al composite foams. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 690, 294-302	5.3	34
117	Ball-in-cage nanocomposites of metal-organic frameworks and three-dimensional carbon networks: synthesis and capacitive performance. *Nanoscale*, **2017**, 9, 6478-6485	7.7	32
116	Sandwiched C@SnO2@C hollow nanostructures as an ultralong-lifespan high-rate anode material for lithium-ion and sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10946-10956	13	88
115	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	5.3	76
114	Smart hybridization of Sn2Nb2O7/SnO2@3D carbon nanocomposites with enhanced sodium storage performance through self-buffering effects. *Journal of Materials Chemistry A*, **2017**, 5, 13052-13061	13	21
113	Sandwiched graphene inserted with graphene-encapsulated yolk□shell □Fe2O3 nanoparticles for efficient lithium ion storage. *Journal of Materials Chemistry A*, **2017**, 5, 7035-7042	13	35
112	Three-dimensional graphene anchored Fe2O3@C core-shell nanoparticles as supercapacitor electrodes. *Journal of Alloys and Compounds*, **2017**, 696, 956-963	5.7	31
111	One-step synthesis of SnCo nanoconfined in hierarchical carbon nanostructures for lithium ion battery anode. *Nanoscale*, **2017**, 9, 15856-15864	7.7	27
110	In situ synthesized Li2S@porous carbon cathode for graphite/Li2S full cells using ether-based electrolyte. *Electrochimica Acta*, **2017**, 256, 348-356	6.7	20
109	N-Doped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode. *ACS Applied Materials & Interfaces*, **2017**, 9, 30832-30839	9.5	42
108	Thermal decomposition-reduced layer-by-layer nitrogen-doped graphene/MoS2/nitrogen-doped graphene heterostructure for promising lithium-ion batteries. *Nano Energy*, **2017**, 41, 154-163	17.1	160
107	In-situ space-confined synthesis of well-dispersed three-dimensional graphene/carbon nanotube hybrid reinforced copper nanocomposites with balanced strength and ductility. *Composites Part A: Applied Science and Manufacturing*, **2017**, 103, 178-187	8.4	53
106	Interface and Doping Effects on Li Ion Storage Behavior of Graphene/Li2O. *Journal of Physical Chemistry C*, **2017**, 121, 19559-19567	3.8	27
105	Achieving high strength and high ductility in metal matrix composites reinforced with a discontinuous three-dimensional graphene-like network. *Nanoscale*, **2017**, 9, 11929-11938	7.7	85
104	Boron doping effect on the interface interaction and mechanical properties of graphene reinforced copper matrix composite. *Applied Surface Science*, **2017**, 425, 811-822	6.7	17

103	Damping characteristics of Al matrix composite foams reinforced by in-situ grown carbon nanotubes. *Materials Letters*, **2017**, 209, 68-70	3.3	21
102	In-situ fabrication of nano-sized TiO2 reinforced Cu matrix composites with well-balanced mechanical properties and electrical conductivity. *Powder Technology*, **2017**, 321, 66-73	5.2	20
101	Synthesis of 2D/3D carbon hybrids by heterogeneous space-confined effect for electrochemical energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 19175-19183	13	11
100	Nitrogen and oxygen co-doped 3D nanoporous duct-like graphene@carbon nano-cage hybrid films for high-performance multi-style supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 18535-18541	13	18
99	Metal□organic frameworks-derived honeycomb-like Co3O4/three-dimensional graphene networks/Ni foam hybrid as a binder-free electrode for supercapacitors. *Journal of Alloys and Compounds*, **2017**, 693, 16-24	5.7	96
98	Fabrication of in-situ grown graphene reinforced Cu matrix composites. *Scientific Reports*, **2016**, 6, 19363	4.9	106
97	Fabrication of three-dimensional graphene/Cu composite by in-situ CVD and its strengthening mechanism. *Journal of Alloys and Compounds*, **2016**, 688, 69-76	5.7	88
96	Space-Confined Synthesis of Three-Dimensional Boron/Nitrogen-Doped Carbon Nanotubes/Carbon Nanosheets Line-in-Wall Hybrids and Their Electrochemical Energy Storage Applications. *Electrochimica Acta*, **2016**, 212, 621-629	6.7	33
95	Free-Standing 3D Nanoporous Duct-Like and Hierarchical Nanoporous Graphene Films for Micron-Level Flexible Solid-State Asymmetric Supercapacitors. *Advanced Energy Materials*, **2016**, 6, 1600755	21.8	48
94	Synthesis of SiO2/3D porous carbon composite as anode material with enhanced lithium storage performance. *Chemical Physics Letters*, **2016**, 651, 19-23	2.5	32
93	2D sandwich-like carbon-coated ultrathin TiO2@defect-rich MoS2 hybrid nanosheets: Synergistic-effect-promoted electrochemical performance for lithium ion batteries. *Nano Energy*, **2016**, 26, 541-549	17.1	129
92	Effect of Ti/Sc atom ratio on heterogeneous nuclei, microstructure and mechanical properties of A357-0.033Sr alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 671, 275-287	5.3	3
91	Self-anchored catalysts for substrate-free synthesis of metal-encapsulated carbon nano-onions and study of their magnetic properties. *Nano Research*, **2016**, 9, 1159-1172	10	9
90	Hierarchically structured carbon-coated SnO2-Fe3O4 microparticles with enhanced lithium storage performance. *Applied Surface Science*, **2016**, 361, 1-10	6.7	21
89	Evolution of microstructure and properties of Al□Zn□Mg□Cu□Sc□Zr alloy during aging treatment. *Journal of Alloys and Compounds*, **2016**, 658, 946-951	5.7	55
88	Interfacial effect on the electrochemical properties of the layered graphene/metal sulfide composites as anode materials for Li-ion batteries. *Surface Science*, **2016**, 651, 10-15	1.8	23
87	Effect of carbon nanotube (CNT) content on the properties of in-situ synthesis CNT reinforced Al composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 660, 11-18	5.3	94
86	Graphene Oxide-Assisted Synthesis of Microsized Ultrathin Single-Crystalline Anatase TiO2 Nanosheets and Their Application in Dye-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 2495-504	9.5	37

85	Preparation of Fe 3 O 4 /rebar graphene composite via solvothermal route as binder free anode for lithium ion batteries. *Journal of Alloys and Compounds*, **2016**, 661, 448-454	5.7	22
84	Azobenzene/graphene hybrid for high-density solar thermal storage by optimizing molecular structure. *Science China Technological Sciences*, **2016**, 59, 1383-1390	3.5	20
83	Phase Component-controllable Synthesis of Layered-Spinel Composite Materials as High-Performance Cathode for Lithium-ion Battery. *Electrochemistry*, **2016**, 84, 407-413	1.2	2
82	Fabrication of Carbon Nanotube-Reinforced 6061Al Alloy Matrix Composites by an In Situ Synthesis Method Combined with Hot Extrusion Technique. *Acta Metallurgica Sinica (English Letters)*, **2016**, 29, 188-198	2.5	8
81	Continuously hierarchical nanoporous graphene film for flexible solid-state supercapacitors with excellent performance. *Nano Energy*, **2016**, 24, 158-164	17.1	47
80	Three-Dimensional Network of N-Doped Carbon Ultrathin Nanosheets with Closely Packed Mesopores: Controllable Synthesis and Application in Electrochemical Energy Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 11720-8	9.5	79
79	Salt-template-assisted synthesis of robust 3D honeycomb-like structured MoS2 and its application as a lithium-ion battery anode. *Journal of Materials Chemistry A*, **2016**, 4, 8734-8741	13	85
78	Three-dimensional core-shell Fe2O3 @ carbon/carbon cloth as binder-free anode for the high-performance lithium-ion batteries. *Applied Surface Science*, **2016**, 390, 350-356	6.7	55
77	A Chemical-Adsorption Strategy to Enhance the Reaction Kinetics of Lithium-Rich Layered Cathodes via Double-Shell Surface Modification. *ACS Applied Materials & Interfaces*, **2016**, 8, 24594-602	8.5	6
76	Defect Effects on the Interfacial Interactions between a (5, 5) Carbon Nanotube and an Al (111) Surface. *Zeitschrift Fur Physikalische Chemie*, **2016**, 230, 809-817	3.1	0
75	Scalable synthesis of high-quality transition metal dichalcogenide nanosheets and their application as sodium-ion battery anodes. *Journal of Materials Chemistry A*, **2016**, 4, 17370-17380	13	60
74	High-energy, stable and recycled molecular solar thermal storage materials using AZO/graphene hybrids by optimizing hydrogen bonds. *Nanoscale*, **2015**, 7, 16214-21	7.7	45
73	Facile synthesis of 3D few-layered MoS□coated TiO□nanosheet core-shell nanostructures for stable and high-performance lithium-ion batteries. *Nanoscale*, **2015**, 7, 12895-905	7.7	75
72	{010}-Oriented micro-flower-like hierarchical Bi2WO6 with high adsorptivity and visible-light-driven photoactivity: experimental studies and first-principles modeling. *Applied Surface Science*, **2015**, 324, 698-704	6.7	16
71	Carbon-coated Fe2O3 nanocrystals with enhanced lithium storage capability. *Applied Surface Science*, **2015**, 347, 178-185	6.7	40
70	2D Space-Confined Synthesis of Few-Layer MoS2 Anchored on Carbon Nanosheet for Lithium-Ion Battery Anode. *ACS Nano*, **2015**, 9, 3837-48	16.7	494
69	Synergistic effect of CNTs reinforcement and precipitation hardening in in-situ CNTs/Al□u composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 633, 103-111	5.3	36
68	A high energy density azobenzene/graphene hybrid: a nano-templated platform for solar thermal storage. *Journal of Materials Chemistry A*, **2015**, 3, 11787-11795	13	74

67	Compressive properties and energy absorption of aluminum composite foams reinforced by in-situ generated MgAl 2 O 4 whiskers. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 645, 1-7	5.3	32
66	Soluble salt self-assembly-assisted synthesis of three-dimensional hierarchical porous carbon networks for supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 22266-22273	13	81
65	In situ preparation of interconnected networks constructed by using flexible graphene/Sn sandwich nanosheets for high-performance lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2015**, 3, 23170-23179	13	31
64	Activated Carbon Nanochains with Tailored Micro-Meso Pore Structures and Their Application for Supercapacitors. *Journal of Physical Chemistry C*, **2015**, 119, 21810-21817	3.8	19
63	Interfacial chemical bonding between carbon nanotube and aluminum substrate modulated by alloying elements. *Diamond and Related Materials*, **2015**, 59, 1-6	3.5	3
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