Chun-Sheng Shi

List of Publications by Year in Descending Order

204 papers	8,113 citations	46 h-index	82 g-index
216 ext. papers	9,587 ext. citations	7.8 avg, IF	6.3 L-index

#	Paper	IF	Citations
204	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
203	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
202	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
201	Simultaneously optimizing pore morphology and enhancing mechanical properties of Al-Si alloy composite foams by graphene nanosheets. *Journal of Materials Science and Technology*, **2022**, 101, 60-70	9.1	1
200	Design of conical hollow ZnS arrays vertically grown on carbon fibers for lightweight and broadband flexible absorbers. *Journal of Colloid and Interface Science*, **2022**, 607, 1287-1299	9.3	6
199	Formation of the orientation relationship-dependent interfacial carbide in Al matrix composite affected by architectured carbon nanotube. *Acta Materialia*, **2022**, 228, 117758	8.4	1
198	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
197	Graphene oxide supported Yolk□□Shell ZnS/NiS with the adjustable air layer for high performance of electromagnetic wave absorber.. *Journal of Colloid and Interface Science*, **2022**, 617, 620-632	9.3	1
196	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
195	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
194	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
193	Phosphorus doping of 3D Structural MoS2 to Promote Catalytic Activity for Lithium-Sulfur Batteries. *Chemical Engineering Journal*, **2021**, 431, 133923	14.7	8
192	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
191	In Situ Internal Strengthened Carbon Nanotube Carpets on Graphene for Anti-Icing Application. *ACS Applied Nano Materials*, **2021**, 4, 10952-10959	5.6	0
190	Hierarchical nickle-iron layered double hydroxide composite electrocatalyst for efficient oxygen evolution reaction. *Materials Today Nano*, **2021**, 17, 100150	9.7	3
189	Boosting the charge transfer efficiency of metal oxides/carbon nanotubes composites through interfaces control. *Journal of Power Sources*, **2021**, 489, 229501	8.9	4
188	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

187	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
186	Microstructure and tensile properties of A356 alloy with different Sc/Zr additions. *Rare Metals*, **2021**, 40, 2514-2522	5.5	1
185	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
184	Rational design of FeCo imbedded 3D porous carbon microspheres as broadband and lightweight microwave absorbers. *Journal of Materials Science*, **2021**, 56, 2212-2225	4.3	12
183	Effects of active elements on adhesion of the Al2O3/Fe interface: A first principles calculation. *Computational Materials Science*, **2021**, 188, 110226	3.2	6
182	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
181	Heterostructure Engineering of Core-Shelled Sb@Sb O Encapsulated in 3D N-Doped Carbon Hollow-Spheres for Superior Sodium/Potassium Storage. *Small*, **2021**, 17, e2006824	11	23
180	Stress Relaxation Constitutive Relations and Finite Element Analysis of T9A Helical Compression Spring. *Materials Transactions*, **2021**, 62, 962-967	1.3	0
179	Achieving prominent strengthening efficiency of graphene nanosheets in Al matrix composites by hybrid deformation. *Carbon*, **2021**, 183, 530-545	10.4	4
178	Microstructure evolution and tensile behavior of MgAlB4w/Al composites at high temperatures. *Journal of Alloys and Compounds*, **2021**, 884, 161088	5.7	2
177	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
176	Three-Dimensional Carbon Networks Decorated with CoFe2O4 Nanoparticles Composites: Fabrication and Broadband Electromagnetic Wave Absorption Performance. *Integrated Ferroelectrics*, **2020**, 208, 164-176	0.8	1
175	A powder-metallurgy-based strategy toward three-dimensional graphene-like network for reinforcing copper matrix composites. *Nature Communications*, **2020**, 11, 2775	17.4	57
174	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
173	Enhanced Shielding Performance of Layered Carbon Fiber Composites Filled with Carbonyl Iron and Carbon Nanotubes in the Koch Curve Fractal Method. *Molecules*, **2020**, 25,	4.8	9
172	Spatially uniform Li deposition realized by 3D continuous duct-like graphene host for high energy density Li metal anode. *Carbon*, **2020**, 161, 198-205	10.4	16
171	In-situ organic SEI layer for dendrite-free lithium metal anode. *Energy Storage Materials*, **2020**, 27, 69-77	19.4	32
170	Comparison of electronic structures and mechanical properties of MgAlB4, AlB2 and MgB2 using first-principles calculations. *Ceramics International*, **2020**, 46, 12548-12558	5.1	4

169	Preparation of Three-Dimensional Carbon Network Reinforced Epoxy Composites and Their Thermal Conductivity. *Transactions of Tianjin University*, **2020**, 26, 399-408	2.9	1
168	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
167	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
166	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
165	Constructing N-Doped porous carbon confined FeSb alloy nanocomposite with Fe-N-C coordination as a universal anode for advanced Na/K-ion batteries. *Chemical Engineering Journal*, **2020**, 384, 123327	14.7	37
164	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
163	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
162	In-situ synthesis of CNTs@Al2O3 wrapped structure in aluminum matrix composites with balanced strength and toughness. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 797, 140058	5.3	9
161	Effect of rare metal element interfacial modulation in graphene/Cu composite with high strength, high ductility and good electrical conductivity. *Applied Surface Science*, **2020**, 533, 147489	6.7	8
160	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
159	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
158	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
157	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
156	A nanosized SnSb alloy confined in N-doped 3D porous carbon coupled with ether-based electrolytes toward high-performance potassium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 14309-14318	13	103
155	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
154	Monodisperse multicore-shell SnSb@SnOx/SbOx@C nanoparticles space-confined in 3D porous carbon networks as high-performance anode for Li-ion and Na-ion batteries. *Chemical Engineering Journal*, **2019**, 371, 356-365	14.7	38
153	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
152	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

151	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
150	Compressive responses and strengthening mechanisms of aluminum composite foams reinforced with graphene nanosheets. *Carbon*, **2019**, 153, 396-406	10.4	7
149	Interface intrinsic strengthening mechanism on the tensile properties of Al2O3/Al composites. *Computational Materials Science*, **2019**, 169, 109131	3.2	10
148	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
147	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
146	Ultrafine SnO2 nanoparticles encapsulated in 3D porous carbon as a high-performance anode material for potassium-ion batteries. *Journal of Power Sources*, **2019**, 441, 227191	8.9	29
145	An in-plane CoS@MoS heterostructure for the hydrogen evolution reaction in alkaline media. *Nanoscale*, **2019**, 11, 21479-21486	7.7	20
144	Synthesis of interconnected carbon nanosheets anchored with Fe3O4 nanoparticles as broadband electromagnetic wave absorber. *Chemical Physics Letters*, **2019**, 716, 221-226	2.5	8
143	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
142	Bio-inspired three-dimensional carbon network with enhanced mass-transfer ability for supercapacitors. *Carbon*, **2019**, 143, 728-735	10.4	20
141	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
140	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
139	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
138	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
137	The preparation and properties of novel structural damping composites reinforced by nitrile rubber coated 3-D braided carbon fibers. *Polymer Composites*, **2019**, 40, E599	3	4
136	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
135	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
134	Enhanced interface interaction between modified carbon nanotubes and magnesium matrix. *Composite Interfaces*, **2018**, 25, 1101-1114	2.3	5

133	Dopant-Modulating Mechanism of Lithium Adsorption and Diffusion at the Graphene/Li2S Interface. *Physical Review Applied*, **2018**, 9,	4.3	10
132	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
131	Porous MoS2/Carbon Spheres Anchored on 3D Interconnected Multiwall Carbon Nanotube Networks for Ultrafast Na Storage. *Advanced Energy Materials*, **2018**, 8, 1702909	21.8	153
130	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
129	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
128	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
127	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
126	Doping and controllable pore size enhanced electrochemical performance of free-standing 3D graphene films. *Applied Surface Science*, **2018**, 427, 598-604	6.7	9
125	Nanotubular Ni-supported graphene @ hierarchical NiCo-LDH with ultrahigh volumetric capacitance for supercapacitors. *Applied Surface Science*, **2018**, 453, 230-237	6.7	13
124	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
123	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
122	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
121	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
120	Assembly Multifunctional Three-Dimensional Carbon Networks by Controlling Intermolecular Forces. *ACS Applied Materials & Interfaces*, **2018**, 10, 36284-36289	9.5	5
119	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
118	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
117	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
116	Artificial neural network enabled capacitance prediction for carbon-based supercapacitors. *Materials Letters*, **2018**, 233, 294-297	3.3	38

115	Fabrication of in-situ grown carbon nanotubes reinforced aluminum alloy matrix composite foams based on powder metallurgy method. *Materials Letters*, **2018**, 233, 351-354	3.3	17
114	Hetero-structure effect on Na adsorption and diffusion in two dimensional composites. *Electrochimica Acta*, **2018**, 285, 309-316	6.7	8
113	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
112	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
111	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
110	Ultrathin-Nanosheet-Induced Synthesis of 3D Transition Metal Oxides Networks for Lithium Ion Battery Anodes. *Advanced Functional Materials*, **2017**, 27, 1605017	15.6	249
109	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
108	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
107	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
106	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
105	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
104	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
103	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
102	MnO nanoparticles@continuous carbon nanosheets for high performance lithium ion battery anodes. *Materials Letters*, **2017**, 189, 236-239	3.3	11
101	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
100	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
99	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
98	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

97	Interface and Doping Effects on Li Ion Storage Behavior of Graphene/Li2O. *Journal of Physical Chemistry C*, **2017**, 121, 19559-19567	3.8	27
96	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
95	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
94	Damping characteristics of Al matrix composite foams reinforced by in-situ grown carbon nanotubes. *Materials Letters*, **2017**, 209, 68-70	3.3	21
93	Compressive Response and Energy Absorption Characteristics of In Situ Grown CNT-Reinforced Al Composite Foams. *Advanced Engineering Materials*, **2017**, 19, 1700431	3.5	1
92	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
91	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
90	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
89	Three-dimensional porous bowl-shaped carbon cages interspersed with carbon coated Ni3Sn alloy nanoparticles as anode materials for high-performance lithium-ion batteries. *New Journal of Chemistry*, **2017**, 41, 393-402	3.6	25
88	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
87	Effect of minor Sc and Zr on recrystallization behavior and mechanical properties of novel Al–Zn–Mg–Cu alloys. *Journal of Alloys and Compounds*, **2016**, 657, 717-725	5.7	93
86	Fabrication of in-situ grown graphene reinforced Cu matrix composites. *Scientific Reports*, **2016**, 6, 19363	4.9	106
85	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
84	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
83	Interface and Doping Effect on the Electrochemical Property of Graphene/LiFePO4. *Journal of Physical Chemistry C*, **2016**, 120, 17165-17174	3.8	12
82	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
81	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
80	Three-dimensional porous carbon nanosheet networks anchored with Cu6Sn5@carbon as a high-performance anode material for lithium ion batteries. *RSC Advances*, **2016**, 6, 54718-54726	3.7	17

79	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
78	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
77	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
76	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
75	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
74	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
73	Continuously hierarchical nanoporous graphene film for flexible solid-state supercapacitors with excellent performance. *Nano Energy*, **2016**, 24, 158-164	17.1	47
72	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
71	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
70	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
69	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
68	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
67	Free-standing porous carbon nanofiber/ultrathin graphite hybrid for flexible solid-state supercapacitors. *ACS Nano*, **2015**, 9, 481-7	16.7	89
66	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
65	Microstructural evolution in Al-Zn-Mg-Cu-Sc-Zr alloys during short-time homogenization. *International Journal of Minerals, Metallurgy and Materials*, **2015**, 22, 516-523	3.1	20
64	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
63	Synergistic effect of CNTs reinforcement and precipitation hardening in in-situ CNTs/Al□Cu composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 633, 103-111	5.3	36
62	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

61	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
60	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
59	A novel approach to obtain in-situ growth carbon nanotube reinforced aluminum foams with enhanced properties. *Materials Letters*, **2015**, 161, 763-766	3.3	35
58	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
57	Interfacial chemical bonding between carbon nanotube and aluminum substrate modulated by alloying elements. *Diamond and Related Materials*, **2015**, 59, 1-6	3.5	3
56	Nitrogen-doped graphene network supported copper nanoparticles encapsulated with graphene shells for surface-enhanced Raman scattering. *Nanoscale*, **2015**, 7, 17079-87	7.7	25
55	Ultralight metal foams. *Scientific Reports*, **2015**, 5, 13825	4.9	18
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