

Jang-Kyo Kim

List of Publications by Year in descending order

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411
papers

37,428
citations

1893

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3915

177
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422
all docs

422
docs citations

422
times ranked

32411
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersion and functionalization of carbon nanotubes for polymer-based nanocomposites: A review. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1345-1367.	7.6	2,787
2	Highly Aligned Graphene/Polymer Nanocomposites with Excellent Dielectric Properties for High-Performance Electromagnetic Interference Shielding. Advanced Materials, 2014, 26, 5480-5487.	21.0	1,024
3	Correlations between Percolation Threshold, Dispersion State, and Aspect Ratio of Carbon Nanotubes. Advanced Functional Materials, 2007, 17, 3207-3215.	14.9	913
4	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. Progress in Materials Science, 2016, 76, 319-380.	32.8	579
5	Effects of silane functionalization on the properties of carbon nanotube/epoxy nanocomposites. Composites Science and Technology, 2007, 67, 2965-2972.	7.8	543
6	Functionalization of carbon nanotubes using a silane coupling agent. Carbon, 2006, 44, 3232-3238.	10.3	524
7	Dispersion, interfacial interaction and re-agglomeration of functionalized carbon nanotubes in epoxy composites. Carbon, 2010, 48, 1824-1834.	10.3	493
8	High strength, high fracture toughness fibre composites with interface control—A review. Composites Science and Technology, 1991, 41, 333-378.	7.8	458
9	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2017, 9, 9059-9069.	8.0	438
10	Carbon nanotube (CNT)-based composites as electrode material for rechargeable Li-ion batteries: A review. Composites Science and Technology, 2012, 72, 121-144.	7.8	432
11	Percolation threshold of conducting polymer composites containing 3D randomly distributed graphite nanoplatelets. Composites Science and Technology, 2007, 67, 2114-2120.	7.8	403
12	Effect of CNT decoration with silver nanoparticles on electrical conductivity of CNT-polymer composites. Carbon, 2008, 46, 1497-1505.	10.3	399
13	Transparent Conductive Films Consisting of Ultralarge Graphene Sheets Produced by Langmuir-Blodgett Assembly. ACS Nano, 2011, 5, 6039-6051.	14.6	394
14	Effects of surfactant treatment on mechanical and electrical properties of CNT/epoxy nanocomposites. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1876-1883.	7.6	393
15	Preparation of graphite nanoplatelets and graphene sheets. Journal of Colloid and Interface Science, 2009, 336, 592-598.	9.4	379
16	Carbon nanomaterials for advanced lithium sulfur batteries. Nano Today, 2018, 19, 84-107.	11.9	365
17	Spontaneous Formation of Liquid Crystals in Ultralarge Graphene Oxide Dispersions. Advanced Functional Materials, 2011, 21, 2978-2988.	14.9	362
18	Enhanced Electrical Conductivity of Nanocomposites Containing Hybrid Fillers of Carbon Nanotubes and Carbon Black. ACS Applied Materials & Interfaces, 2009, 1, 1090-1096.	8.0	355

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19	Fabrication of Highly-Aligned, Conductive, and Strong Graphene Papers Using Ultralarge Graphene Oxide Sheets. ACS Nano, 2012, 6, 10708-10719.	14.6	344
20	Exceptional Electrical Conductivity and Fracture Resistance of 3D Interconnected Graphene Foam/Epoxy Composites. ACS Nano, 2014, 8, 5774-5783.	14.6	298
21	Moisture barrier characteristics of organoclay/epoxy nanocomposites. Composites Science and Technology, 2005, 65, 805-813.	7.8	291
22	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. Nano Letters, 2016, 16, 3585-3593.	9.1	289
23	Gassing in Li4Ti5O12-based batteries and its remedy. Scientific Reports, 2012, 2, 913.	3.3	284
24	Mesoporous, hierarchical core/shell structured ZnCo2O4/MnO2 nanocone forests for high-performance supercapacitors. Nano Energy, 2015, 11, 687-696.	16.0	284
25	Impact and delamination failure of woven-fabric composites. Composites Science and Technology, 2000, 60, 745-761.	7.8	276
26	Fabrication of highly conducting and transparent graphene films. Carbon, 2010, 48, 1815-1823.	10.3	276
27	Surface functionalities of multi-wall carbon nanotubes after UV/Ozone and TETA treatments. Carbon, 2006, 44, 768-777.	10.3	272
28	Self-alignment and high electrical conductivity of ultralarge graphene oxide/polyurethane nanocomposites. Journal of Materials Chemistry, 2012, 22, 12709.	6.7	269
29	Mode I interlaminar fracture behavior and mechanical properties of CFRPs with nanoclay-filled epoxy matrix. Composites Part A: Applied Science and Manufacturing, 2007, 38, 449-460.	7.6	266
30	Graphene oxide-based transparent conductive films. Progress in Materials Science, 2014, 64, 200-247.	32.8	263
31	Graphene-based wearable piezoresistive physical sensors. Materials Today, 2020, 36, 158-179.	14.2	262
32	Vibration damping characteristics of carbon fiber-reinforced composites containing multi-walled carbon nanotubes. Composites Science and Technology, 2011, 71, 1486-1494.	7.8	247
33	Porous graphene oxide/carbon nanotube hybrid films as interlayer for lithium-sulfur batteries. Carbon, 2016, 99, 624-632.	10.3	246
34	Highly aligned, ultralarge-size reduced graphene oxide/polyurethane nanocomposites: Mechanical properties and moisture permeability. Composites Part A: Applied Science and Manufacturing, 2013, 49, 42-50.	7.6	242
35	Cooling rate influences in carbon fibre/PEEK composites. Part 1. Crystallinity and interface adhesion. Composites Part A: Applied Science and Manufacturing, 2000, 31, 517-530.	7.6	238
36	Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. Carbon, 2013, 59, 406-417.	10.3	238

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37	Graphene Aerogel/Epoxy Composites with Exceptional Anisotropic Structure and Properties. ACS Applied Materials & Interfaces, 2015, 7, 5538-5549.	8.0	235
38	Graphene Oxide-Based Amplified Fluorescent Biosensor for Hg ²⁺ Detection through Hybridization Chain Reactions. Analytical Chemistry, 2014, 86, 3209-3215.	6.5	224
39	Effect of solid electrolyte interface (SEI) film on cyclic performance of Li ₄ Ti ₅ O ₁₂ anodes for Li ion batteries. Journal of Power Sources, 2013, 239, 269-276.	7.8	223
40	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. Advanced Functional Materials, 2020, 30, 1910826.	14.9	223
41	Wrinkling in graphene sheets and graphene oxide papers. Carbon, 2014, 66, 84-92.	10.3	213
42	Recent progress in rational design of anode materials for high-performance Na-ion batteries. Energy Storage Materials, 2017, 7, 64-114.	18.0	211
43	SnO ₂ @"graphene" carbon nanotube mixture for anode material with improved rate capacities. Carbon, 2011, 49, 4524-4534.	10.3	206
44	Effects of carbon nanotube alignment on electrical and mechanical properties of epoxy nanocomposites. Composites Part A: Applied Science and Manufacturing, 2013, 49, 26-34.	7.6	206
45	Multifunctional microcellular PVDF/Ni-chains composite foams with enhanced electromagnetic interference shielding and superior thermal insulation performance. Chemical Engineering Journal, 2020, 379, 122304.	12.7	201
46	Ultrafine TiO ₂ Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithium-Sulfur Battery. ACS Applied Materials & Interfaces, 2016, 8, 23105-23113.	8.0	200
47	Electrospun Carbon Nanofibers with in Situ Encapsulated Co ₃ O ₄ Nanoparticles as Electrodes for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 13503-13511.	8.0	199
48	Effects of functional groups on the mechanical and wrinkling properties of graphene sheets. Carbon, 2010, 48, 4315-4322.	10.3	198
49	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. Materials Horizons, 2017, 4, 477-486.	12.2	194
50	Mesoporous CuCo ₂ O ₄ nanograsses as multi-functional electrodes for supercapacitors and electro-catalysts. Journal of Materials Chemistry A, 2015, 3, 9769-9776.	10.3	192
51	Microscopically porous, interconnected single crystal LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode material for Lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 10777.	6.7	190
52	Morphology and properties of UV/ozone treated graphite nanoplatelet/epoxy nanocomposites. Composites Science and Technology, 2007, 67, 296-305.	7.8	189
53	Effect of functionalization on thermal conductivities of graphene/epoxy composites. Carbon, 2016, 108, 412-422.	10.3	184
54	Impact damage resistance of CFRP with nanoclay-filled epoxy matrix. Composites Science and Technology, 2009, 69, 1949-1957.	7.8	182

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55	Effect of fiber pretreatment condition on the interfacial strength and mechanical properties of wood fiber/PP composites. <i>Journal of Applied Polymer Science</i> , 2000, 76, 1000-1010.	2.6	178
56	Novel interlayer made from Fe ₃ C/carbon nanofiber webs for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2015, 285, 43-50.	7.8	178
57	Self-assembled reduced graphene oxide/carbon nanotube thin films as electrodes for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 3591.	6.7	177
58	Lithium-Sulfur Battery Cable Made from Ultralight, Flexible Graphene/Carbon Nanotube/Sulfur Composite Fibers. <i>Advanced Functional Materials</i> , 2017, 27, 1604815.	14.9	176
59	Hybrid nanocomposites containing carbon nanotubes and graphite nanoplatelets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 660-663.	5.6	172
60	Nanosilicon anodes for high performance rechargeable batteries. <i>Progress in Materials Science</i> , 2017, 90, 1-44.	32.8	172
61	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 85, 199-206.	7.6	171
62	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnOx particles. <i>Energy and Environmental Science</i> , 2012, 5, 9895.	30.8	165
63	Dual-phase MoS ₂ as a high-performance sodium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2114-2122.	10.3	160
64	Br treated graphite nanoplatelets for improved electrical conductivity of polymer composites. <i>Carbon</i> , 2007, 45, 744-750.	10.3	158
65	Unveiling the Unique Phase Transformation Behavior and Sodiation Kinetics of 1D van der Waals Sb ₂ S ₃ Anodes for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602149.	19.5	152
66	Highly transparent and conducting ultralarge graphene oxide/single-walled carbon nanotube hybrid films produced by Langmuir-Blodgett assembly. <i>Journal of Materials Chemistry</i> , 2012, 22, 25072.	6.7	151
67	Dendrite-free lithium metal and sodium metal batteries. <i>Energy Storage Materials</i> , 2020, 27, 522-554.	18.0	151
68	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <i>Progress in Materials Science</i> , 2021, 115, 100708.	32.8	150
69	Improved interlaminar shear properties of multiscale carbon fiber composites with bucky paper interleaves made from carbon nanofibers. <i>Carbon</i> , 2012, 50, 5265-5277.	10.3	149
70	Conductive graphite nanoplatelet/epoxy nanocomposites: Effects of exfoliation and UV/ozone treatment of graphite. <i>Scripta Materialia</i> , 2005, 53, 235-240.	5.2	146
71	Nanoscale characterisation of interphase in silane treated glass fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001, 32, 607-618.	7.6	145
72	Environmental degradation of epoxy-organoclay nanocomposites due to UV exposure. Part I: Photo-degradation. <i>Composites Science and Technology</i> , 2007, 67, 3448-3456.	7.8	144

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73	Nano-indentation of polymer-glass interfaces Part I. Experimental and mechanical analysis. <i>Polymer</i> , 2000, 41, 6895-6905.	3.8	143
74	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Spheres of Densely Packed Nanocrystallites. <i>Chemistry of Materials</i> , 2015, 27, 5647-5656.	6.7	142
75	Impact response of woven glass-fabric composites. <i>Composites Science and Technology</i> , 1998, 58, 91-104.	7.8	139
76	Impact damage characterisation of carbon fibre/epoxy composites with multi-layer reinforcement. <i>Composites Part B: Engineering</i> , 2000, 31, 681-691.	12.0	137
77	Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. <i>Carbon</i> , 2015, 89, 102-112.	10.3	137
78	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. <i>Chemistry of Materials</i> , 2016, 28, 6731-6741.	6.7	137
79	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , 2019, 29, 1901623.	14.9	137
80	Cobalt Carbonate/ and Cobalt Oxide/Graphene Aerogel Composite Anodes for High Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18971-18980.	8.0	135
81	Revealing Pseudocapacitive Mechanisms of Metal Dichalcogenide SnS_2 /Graphene-CNT Aerogels for High-Energy Na Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1702488.	19.5	135
82	Urchin-like $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -carbon nanofiber composites for high rate performance anodes in Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 12133.	6.7	133
83	Correlation Between Atomic Structure and Electrochemical Performance of Anodes Made from Electrospun Carbon Nanofiber Films. <i>Advanced Energy Materials</i> , 2014, 4, 1301448.	19.5	133
84	Tensile strength of glass fibres with carbon nanotube-epoxy nanocomposite coating. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1606-1614.	7.6	129
85	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. <i>Materials Horizons</i> , 2018, 5, 275-284.	12.2	129
86	Hierarchical MoS_2 /Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5668-5677.	10.3	128
87	Impact and Delamination Failure of Multiscale Carbon Nanotube-Fiber Reinforced Polymer Composites: A Review. <i>International Journal of Aeronautical and Space Sciences</i> , 2011, 12, 115-133.	2.0	128
88	Interfacial debonding and fibre pull-out stresses. <i>Journal of Materials Science</i> , 1992, 27, 3143-3154.	3.7	127
89	NiCo_2O_4 /CNT nanocomposites as bi-functional electrodes for Li ion batteries and supercapacitors. <i>Carbon</i> , 2016, 102, 262-272.	10.3	127
90	Electrospun carbon nanofiber anodes containing monodispersed Si nanoparticles and graphene oxide with exceptional high rate capacities. <i>Nano Energy</i> , 2014, 6, 27-35.	16.0	125

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91	Co ₃ O ₄ /porous electrospun carbon nanofibers as anodes for high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16939-16944.	10.3	115
92	Ultrahigh dielectric constant and low loss of highly-aligned graphene aerogel/poly(vinyl alcohol) composites with insulating barriers. <i>Carbon</i> , 2017, 123, 385-394.	10.3	114
93	Percolation threshold of graphene nanosheets as conductive additives in Li ₄ Ti ₅ O ₁₂ anodes of Li-ion batteries. <i>Nanoscale</i> , 2013, 5, 2100.	5.6	113
94	Enhanced conversion reaction kinetics in low crystallinity SnO ₂ /CNT anodes for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10964-10973.	10.3	111
95	Fracture toughness of CFRP with modified epoxy resin matrices. <i>Composites Science and Technology</i> , 1992, 43, 283-297.	7.8	110
96	Effects of reduction process and carbon nanotube content on the supercapacitive performance of flexible graphene oxide papers. <i>Carbon</i> , 2012, 50, 4239-4251.	10.3	109
97	Novel mussel-inspired zwitterionic hydrophilic polymer to boost membrane water-treatment performance. <i>Journal of Membrane Science</i> , 2019, 582, 1-8.	8.2	109
98	Correlation between Li Plating Behavior and Surface Characteristics of Carbon Matrix toward Stable Li Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1802777.	19.5	109
99	Sol-gel synthesis of multiwalled carbon nanotube-LiMn ₂ O ₄ nanocomposites as cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2010, 195, 4290-4296.	7.8	108
100	Fatigue damage behaviors of carbon fiber-reinforced epoxy composites containing nanoclay. <i>Composites Science and Technology</i> , 2010, 70, 2077-2085.	7.8	106
101	Heterogeneous, mesoporous NiCo ₂ O ₄ -MnO ₂ /graphene foam for asymmetric supercapacitors with ultrahigh specific energies. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3547-3557.	10.3	106
102	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2282-2294.	8.0	105
103	Interfacial debonding and fibre pull-out stresses. <i>Journal of Materials Science</i> , 1992, 27, 3155-3166.	3.7	104
104	Ultrafine Amorphous SnO _x Embedded in Carbon Nanofiber/Carbon Nanotube Composites for Li-ion and Na-ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 5222-5228.	14.9	104
105	Mesoporous ZnCo ₂ O ₄ nanoflakes grown on nickel foam as electrodes for high performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17016-17022.	2.8	104
106	Three-Dimensional Porous Graphene Aerogel Cathode with High Sulfur Loading and Embedded TiO ₂ Nanoparticles for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28663-28670.	8.0	100
107	Ultrathin ZnS nanosheet/carbon nanotube hybrid electrode for high-performance flexible all-solid-state supercapacitor. <i>Nano Research</i> , 2017, 10, 2570-2583.	10.4	100
108	Hierarchical Core/Shell NiCo ₂ O ₄ @NiCo ₂ O ₄ Nanocactus Arrays with Dual-functionalities for High Performance Supercapacitors and Li-ion Batteries. <i>Scientific Reports</i> , 2015, 5, 12099.	3.3	98

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109	Forming and failure behaviour of coated, laminated and sandwiched sheet metals: a review. <i>Journal of Materials Processing Technology</i> , 1997, 63, 33-42.	6.3	95
110	Improved rate capability of carbon coated Li _{3.9} Sn _{0.1} Ti ₅ O ₁₂ porous electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 10692-10697.	7.8	95
111	Exceptional rate performance of functionalized carbon nanofiber anodes containing nanopores created by (Fe) sacrificial catalyst. <i>Nano Energy</i> , 2014, 4, 88-96.	16.0	94
112	Integrated Water and Thermal Managements in Bioinspired Hierarchical MXene Aerogels for Highly Efficient Solar-Powered Water Evaporation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	94
113	In Situ TEM Study of Volume Expansion in Porous Carbon Nanofiber/Sulfur Cathodes with Exceptional High-Rate Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1602078.	19.5	93
114	Metallic MoS ₂ nanosheets: multifunctional electrocatalyst for the ORR, OER and Li-O ₂ batteries. <i>Nanoscale</i> , 2018, 10, 22549-22559.	5.6	93
115	Novel 2D Sb ₂ S ₃ Nanosheet/CNT Coupling Layer for Exceptional Polysulfide Recycling Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800710.	19.5	93
116	Drop-weight impact damage tolerance of CFRP with rubber-modified epoxy matrix. <i>Composites</i> , 1993, 24, 485-494.	0.7	92
117	Manufacturing and characterization of carbon fibre/epoxy composite prepregs containing carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1412-1420.	7.6	92
118	Non-flammable electrolyte for dendrite-free sodium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 23, 8-16.	18.0	92
119	A 3D porous FeP/rGO modulated separator as a dual-function polysulfide barrier for high-performance lithium sulfur batteries. <i>Nanoscale Horizons</i> , 2020, 5, 530-540.	8.0	90
120	The effects of water aging on the interphase region and interlaminar fracture toughness in polymer-glass composites. <i>Composites Science and Technology</i> , 2004, 64, 2185-2195.	7.8	89
121	Facile Synthesis of Graphene-Like Copper Oxide Nanofilms with Enhanced Electrochemical and Photocatalytic Properties in Energy and Environmental Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9682-9690.	8.0	89
122	Improved electrical and optical characteristics of transparent graphene thin films produced by acid and doping treatments. <i>Carbon</i> , 2011, 49, 2905-2916.	10.3	88
123	Role of the anatase/TiO ₂ (B) heterointerface for ultrastable high-rate lithium and sodium energy storage performance. <i>Nanoscale Horizons</i> , 2020, 5, 150-162.	8.0	88
124	Barrier performance of silane-clay nanocomposite coatings on concrete structure. <i>Composites Science and Technology</i> , 2008, 68, 2828-2836.	7.8	86
125	Tensile strength of glass fibres with carbon nanotube-epoxy nanocomposite coating: Effects of CNT morphology and dispersion state. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 539-548.	7.6	86
126	Mechanisms of capacity degradation in reduced graphene oxide/±-MnO ₂ nanorod composite cathodes of Li-air batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1163-1170.	10.3	85

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127	Sb-doped SnO ₂ /graphene-CNT aerogels for high performance Li-ion and Na-ion battery anodes. <i>Energy Storage Materials</i> , 2017, 9, 85-95.	18.0	85
128	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702267.	19.5	85
129	Cooling rate influences in carbon fibre/PEEK composites. Part II: interlaminar fracture toughness. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001, 32, 763-774.	7.6	84
130	Positive role of oxygen vacancy in electrochemical performance of CoMn ₂ O ₄ cathodes for Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2017, 365, 134-147.	7.8	84
131	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018, 3, 35-44.	8.0	84
132	Hierarchical, porous CuS microspheres integrated with carbon nanotubes for high-performance supercapacitors. <i>Scientific Reports</i> , 2015, 5, 16584.	3.3	81
133	Carbon-coated mesoporous silicon microsphere anodes with greatly reduced volume expansion. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6098-6106.	10.3	81
134	Graphene/Boron Nitride-Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26641-26652.	8.0	81
135	Cleaning and Functionalization of Polymer Surfaces and Nanoscale Carbon Fillers by UV/Ozone Treatment: A Review. <i>Journal of Composite Materials</i> , 2009, 43, 1537-1564.	2.4	80
136	In Situ Formation of Copper-Based Hosts Embedded within 3D N-Doped Hierarchically Porous Carbon Networks for Ultralong Cycle Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804520.	14.9	80
137	Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. <i>Journal of Membrane Science</i> , 2021, 619, 118791.	8.2	80
138	Sandwich-structured graphene-NiFe ₂ O ₄ -carbon nanocomposite anodes with exceptional electrochemical performance for Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8314.	10.3	79
139	Electrospun graphitic carbon nanofibers with in-situ encapsulated Co-Ni nanoparticles as freestanding electrodes for Li-O ₂ batteries. <i>Carbon</i> , 2016, 100, 329-336.	10.3	79
140	2D MoS ₂ grown on biomass-based hollow carbon fibers for energy storage. <i>Applied Surface Science</i> , 2019, 469, 854-863.	6.1	79
141	Impact response of woven glass-fabric composites-II. Effect of temperature. <i>Composites Science and Technology</i> , 1998, 58, 119-128.	7.8	78
142	Environmental degradation of epoxy-organoclay nanocomposites due to UV exposure: Part II residual mechanical properties. <i>Composites Science and Technology</i> , 2008, 68, 2149-2155.	7.8	78
143	Atomic scale, amorphous FeOx/carbon nanofiber anodes for Li-ion and Na-ion batteries. <i>Energy Storage Materials</i> , 2017, 8, 10-19.	18.0	78
144	3D network graphene interlayer for excellent interlaminar toughness and strength in fiber reinforced composites. <i>Carbon</i> , 2015, 95, 978-986.	10.3	76

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145	Quasi-static and impact fracture behaviors of CFRPs with nanoclay-filled epoxy matrix. Composites Part A: Applied Science and Manufacturing, 2011, 42, 253-264.	7.6	75
146	Experimental study on RC beams with FRP strips bonded with rubber modified resins. Composites Science and Technology, 2004, 64, 2557-2564.	7.8	74
147	Effect of surfactant treatment on thermal stability and mechanical properties of CNT/polybenzoxazine nanocomposites. Composites Science and Technology, 2012, 72, 1968-1976.	7.8	74
148	Anisotropic, Wrinkled, and Crack-Bridging Structure for Ultrasensitive, Highly Selective Multidirectional Strain Sensors. Nano-Micro Letters, 2021, 13, 122.	27.0	74
149	Rationally designed nanostructured metal chalcogenides for advanced sodium-ion batteries. Energy Storage Materials, 2021, 34, 582-628.	18.0	73
150	NaF-rich solid electrolyte interphase for dendrite-free sodium metal batteries. Energy Storage Materials, 2022, 44, 477-486.	18.0	73
151	A molecular beacon and graphene oxide-based fluorescent biosensor for Cu ²⁺ detection. Biosensors and Bioelectronics, 2013, 43, 379-383.	10.1	72
152	Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2018, 10, 6580-6592.	8.0	71
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