

# Jang-Kyo Kim

## List of Publications by Citations

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400  
papers

30,123  
citations

92  
h-index

160  
g-index

422  
ext. papers

33,780  
ext. citations

9  
avg, IF

7.6  
L-index

#	Paper	IF	Citations
400	Dispersion and functionalization of carbon nanotubes for polymer-based nanocomposites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2010</b> , 41, 1345-1367	8.4	2320
399	Highly aligned graphene/polymer nanocomposites with excellent dielectric properties for high-performance electromagnetic interference shielding. <i>Advanced Materials</i> , <b>2014</b> , 26, 5480-7	24	867
398	Correlations between Percolation Threshold, Dispersion State, and Aspect Ratio of Carbon Nanotubes. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3207-3215	15.6	791
397	Effects of silane functionalization on the properties of carbon nanotube/epoxy nanocomposites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2965-2972	8.6	481
396	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. <i>Progress in Materials Science</i> , <b>2016</b> , 76, 319-380	42.2	460
395	Functionalization of carbon nanotubes using a silane coupling agent. <i>Carbon</i> , <b>2006</b> , 44, 3232-3238	10.4	456
394	Dispersion, interfacial interaction and re-agglomeration of functionalized carbon nanotubes in epoxy composites. <i>Carbon</i> , <b>2010</b> , 48, 1824-1834	10.4	430
393	High strength, high fracture toughness fibre composites with interface control: A review. <i>Composites Science and Technology</i> , <b>1991</b> , 41, 333-378	8.6	414
392	Carbon nanotube (CNT)-based composites as electrode material for rechargeable Li-ion batteries: A review. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 121-144	8.6	361
391	Effect of CNT decoration with silver nanoparticles on electrical conductivity of CNT-polymer composites. <i>Carbon</i> , <b>2008</b> , 46, 1497-1505	10.4	355
390	Transparent conductive films consisting of ultralarge graphene sheets produced by Langmuir-Blodgett assembly. <i>ACS Nano</i> , <b>2011</b> , 5, 6039-51	16.7	351
389	Effects of surfactant treatment on mechanical and electrical properties of CNT/epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 1876-1883	8.4	346
388	Preparation of graphite nanoplatelets and graphene sheets. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 336, 592-8	9.3	342
387	Percolation threshold of conducting polymer composites containing 3D randomly distributed graphite nanoplatelets. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2114-2120	8.6	332
386	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9059-9069	9.5	321
385	Spontaneous Formation of Liquid Crystals in Ultralarge Graphene Oxide Dispersions. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2978-2988	15.6	314
384	Enhanced electrical conductivity of nanocomposites containing hybrid fillers of carbon nanotubes and carbon black. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1090-6	9.5	298

383	Fabrication of highly-aligned, conductive, and strong graphene papers using ultralarge graphene oxide sheets. <i>ACS Nano</i> , <b>2012</b> , 6, 10708-19	16.7	282
382	Carbon nanomaterials for advanced lithium sulfur batteries. <i>Nano Today</i> , <b>2018</b> , 19, 84-107	17.9	267
381	Moisture barrier characteristics of organoclay/epoxy nanocomposites. <i>Composites Science and Technology</i> , <b>2005</b> , 65, 805-813	8.6	259
380	Exceptional electrical conductivity and fracture resistance of 3D interconnected graphene foam/epoxy composites. <i>ACS Nano</i> , <b>2014</b> , 8, 5774-83	16.7	257
379	Mesoporous, hierarchical core/shell structured ZnCo <sub>2</sub> O <sub>4</sub> /MnO <sub>2</sub> nanocone forests for high-performance supercapacitors. <i>Nano Energy</i> , <b>2015</b> , 11, 687-696	17.1	254
378	Fabrication of highly conducting and transparent graphene films. <i>Carbon</i> , <b>2010</b> , 48, 1815-1823	10.4	253
377	Surface functionalities of multi-wall carbon nanotubes after UV/Ozone and TETA treatments. <i>Carbon</i> , <b>2006</b> , 44, 768-777	10.4	250
376	Mode I interlaminar fracture behavior and mechanical properties of CFRPs with nanoclay-filled epoxy matrix. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2007</b> , 38, 449-460	8.4	244
375	Impact and delamination failure of woven-fabric composites. <i>Composites Science and Technology</i> , <b>2000</b> , 60, 745-761	8.6	240
374	Gassing in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based batteries and its remedy. <i>Scientific Reports</i> , <b>2012</b> , 2, 913	4.9	238
373	Self-alignment and high electrical conductivity of ultralarge graphene oxide/polyurethane nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12709		234
372	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. <i>Nano Letters</i> , <b>2016</b> , 16, 3585-93	11.5	233
371	Graphene oxide-based transparent conductive films. <i>Progress in Materials Science</i> , <b>2014</b> , 64, 200-247	42.2	219
370	Porous graphene oxide/carbon nanotube hybrid films as interlayer for lithium-sulfur batteries. <i>Carbon</i> , <b>2016</b> , 99, 624-632	10.4	216
369	Graphene aerogel/epoxy composites with exceptional anisotropic structure and properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5538-49	9.5	207
368	Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. <i>Carbon</i> , <b>2013</b> , 59, 406-417	10.4	207
367	Highly aligned, ultralarge-size reduced graphene oxide/polyurethane nanocomposites: Mechanical properties and moisture permeability. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 49, 42-50	8.4	202
366	Graphene oxide-based amplified fluorescent biosensor for Hg(2+) detection through hybridization chain reactions. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3209-15	7.8	199

365	Vibration damping characteristics of carbon fiber-reinforced composites containing multi-walled carbon nanotubes. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 1486-1494	8.6	199
364	SnO <sub>2</sub> /graphene/carbon nanotube mixture for anode material with improved rate capacities. <i>Carbon</i> , <b>2011</b> , 49, 4524-4534	10.4	192
363	Effect of solid electrolyte interface (SEI) film on cyclic performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anodes for Li ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 239, 269-276	8.9	188
362	Effects of functional groups on the mechanical and wrinkling properties of graphene sheets. <i>Carbon</i> , <b>2010</b> , 48, 4315-4322	10.4	181
361	Recent progress in rational design of anode materials for high-performance Na-ion batteries. <i>Energy Storage Materials</i> , <b>2017</b> , 7, 64-114	19.4	180
360	Morphology and properties of UV/ozone treated graphite nanoplatelet/epoxy nanocomposites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 296-305	8.6	179
359	Cooling rate influences in carbon fibre/PEEK composites. Part 1. Crystallinity and interface adhesion. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2000</b> , 31, 517-530	8.4	173
358	Effects of carbon nanotube alignment on electrical and mechanical properties of epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 49, 26-34	8.4	169
357	Ultrafine TiO <sub>2</sub> Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithium-Sulfur Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23105-13	9.5	167
356	Electrospun Carbon Nanofibers with in Situ Encapsulated Co <sup>0</sup> Nanoparticles as Electrodes for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13503-11	9.5	165
355	Self-assembled reduced graphene oxide/carbon nanotube thin films as electrodes for supercapacitors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3591		161
354	Wrinkling in graphene sheets and graphene oxide papers. <i>Carbon</i> , <b>2014</b> , 66, 84-92	10.4	160
353	Effect of fiber pretreatment condition on the interfacial strength and mechanical properties of wood fiber/PP composites <b>2000</b> , 76, 1000-1010		159
352	Microscopically porous, interconnected single crystal LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode material for Lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10777		158
351	Hybrid nanocomposites containing carbon nanotubes and graphite nanoplatelets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 483-484, 660-663	5.3	151
350	Mesoporous CuCo <sub>2</sub> O <sub>4</sub> nanograsses as multi-functional electrodes for supercapacitors and electro-catalysts. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9769-9776	13	149
349	Br treated graphite nanoplatelets for improved electrical conductivity of polymer composites. <i>Carbon</i> , <b>2007</b> , 45, 744-750	10.4	149
348	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. <i>Materials Horizons</i> , <b>2017</b> , 4, 477-486	14.4	148

347	LithiumSulfur Battery Cable Made from Ultralight, Flexible Graphene/Carbon Nanotube/Sulfur Composite Fibers. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604815	15.6	147
346	Impact damage resistance of CFRP with nanoclay-filled epoxy matrix. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1949-1957	8.6	146
345	Novel interlayer made from Fe <sub>3</sub> C/carbon nanofiber webs for high performance lithiumSulfur batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 285, 43-50	8.9	143
344	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnOx particles. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9895	35.4	142
343	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 85, 199-206	8.4	139
342	Conductive graphite nanoplatelet/epoxy nanocomposites: Effects of exfoliation and UV/ozone treatment of graphite. <i>Scripta Materialia</i> , <b>2005</b> , 53, 235-240	5.6	137
341	Effect of functionalization on thermal conductivities of graphene/epoxy composites. <i>Carbon</i> , <b>2016</b> , 108, 412-422	10.4	135
340	Nanosilicon anodes for high performance rechargeable batteries. <i>Progress in Materials Science</i> , <b>2017</b> , 90, 1-44	42.2	133
339	Nano-indentation of polymer/glass interfaces Part I. Experimental and mechanical analysis. <i>Polymer</i> , <b>2000</b> , 41, 6895-6905	3.9	132
338	Nanoscale characterisation of interphase in silane treated glass fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 607-618	8.4	130
337	Highly transparent and conducting ultralarge graphene oxide/single-walled carbon nanotube hybrid films produced by LangmuirBlodgett assembly. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 25072		127
336	Unveiling the Unique Phase Transformation Behavior and Sodiation Kinetics of 1D van der Waals Sb <sub>2</sub> S <sub>3</sub> Anodes for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602149	21.8	125
335	Improved interlaminar shear properties of multiscale carbon fiber composites with bucky paper interleaves made from carbon nanofibers. <i>Carbon</i> , <b>2012</b> , 50, 5265-5277	10.4	125
334	Urchin-like Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /carbon nanofiber composites for high rate performance anodes in Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12133		124
333	Impact response of woven glass-fabric compositesII. <i>Composites Science and Technology</i> , <b>1998</b> , 58, 91-104	8.6	122
332	Environmental degradation of epoxy/gnanoclay nanocomposites due to UV exposure. Part I: Photo-degradation. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 3448-3456	8.6	120
331	Impact damage characterisation of carbon fibre/epoxy composites with multi-layer reinforcement. <i>Composites Part B: Engineering</i> , <b>2000</b> , 31, 681-691	10	119
330	Cobalt carbonate/ and cobalt oxide/graphene aerogel composite anodes for high performance Li-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18971-80	9.5	118

329	Correlation Between Atomic Structure and Electrochemical Performance of Anodes Made from Electrospun Carbon Nanofiber Films. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301448	21.8	116
328	Tensile strength of glass fibres with carbon nanotube-epoxy nanocomposite coating. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 1606-1614	8.4	116
327	Impact and Delamination Failure of Multiscale Carbon Nanotube-Fiber Reinforced Polymer Composites: A Review. <i>International Journal of Aeronautical and Space Sciences</i> , <b>2011</b> , 12, 115-133	1.2	115
326	Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. <i>Carbon</i> , <b>2015</b> , 89, 102-112	10.4	114
325	Interfacial debonding and fibre pull-out stresses. <i>Journal of Materials Science</i> , <b>1992</b> , 27, 3143-3154	4.3	113
324	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6731-6741	9.6	112
323	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Spheres of Densely Packed Nanocrystallites. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5647-5656	9.6	111
322	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910826	15.6	111
321	Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , <b>2020</b> , 36, 158-179	21.8	109
320	Multifunctional microcellular PVDF/Ni-chains composite foams with enhanced electromagnetic interference shielding and superior thermal insulation performance. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122304	14.7	108
319	Revealing Pseudocapacitive Mechanisms of Metal Dichalcogenide SnS <sub>2</sub> /Graphene-CNT Aerogels for High-Energy Na Hybrid Capacitors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702488	21.8	107
318	Electrospun carbon nanofiber anodes containing monodispersed Si nanoparticles and graphene oxide with exceptional high rate capacities. <i>Nano Energy</i> , <b>2014</b> , 6, 27-35	17.1	107
317	NiCo <sub>2</sub> O <sub>4</sub> /CNT nanocomposites as bi-functional electrodes for Li ion batteries and supercapacitors. <i>Carbon</i> , <b>2016</b> , 102, 262-272	10.4	106
316	Percolation threshold of graphene nanosheets as conductive additives in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anodes of Li-ion batteries. <i>Nanoscale</i> , <b>2013</b> , 5, 2100-6	7.7	104
315	Enhanced conversion reaction kinetics in low crystallinity SnO <sub>2</sub> /CNT anodes for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10964-10973	13	102
314	Co <sub>3</sub> O <sub>4</sub> /porous electrospun carbon nanofibers as anodes for high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16939-16944	13	102
313	Hierarchical MoS <sub>2</sub> /Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5668-5677	13	100
312	Effects of reduction process and carbon nanotube content on the supercapacitive performance of flexible graphene oxide papers. <i>Carbon</i> , <b>2012</b> , 50, 4239-4251	10.4	100



311	Sol-gel synthesis of multiwalled carbon nanotube-LiMn <sub>2</sub> O <sub>4</sub> nanocomposites as cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4290-4296	8.9	98
310	Fracture toughness of CFRP with modified epoxy resin matrices. <i>Composites Science and Technology</i> , <b>1992</b> , 43, 283-297	8.6	98
309	Mesoporous ZnCo <sub>2</sub> O <sub>4</sub> nanoflakes grown on nickel foam as electrodes for high performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17016-22	3.6	92
308	Heterogeneous, mesoporous NiCo <sub>2</sub> O <sub>4</sub> /MnO <sub>2</sub> /graphene foam for asymmetric supercapacitors with ultrahigh specific energies. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3547-3557	13	91
307	Interfacial debonding and fibre pull-out stresses. <i>Journal of Materials Science</i> , <b>1992</b> , 27, 3155-3166	4.3	91
306	Fatigue damage behaviors of carbon fiber-reinforced epoxy composites containing nanoclay. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 2077-2085	8.6	90
305	Ultrafine Amorphous SnO <sub>x</sub> Embedded in Carbon Nanofiber/Carbon Nanotube Composites for Li-Ion and Na-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5222-5228	15.6	89
304	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. <i>Materials Horizons</i> , <b>2018</b> , 5, 275-284	14.4	87
303	Three-Dimensional Porous Graphene Aerogel Cathode with High Sulfur Loading and Embedded TiO <sub>2</sub> Nanoparticles for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28663-28670	9.5	87
302	Ultrahigh dielectric constant and low loss of highly-aligned graphene aerogel/poly(vinyl alcohol) composites with insulating barriers. <i>Carbon</i> , <b>2017</b> , 123, 385-394	10.4	86
301	Hierarchical Core/Shell NiCo <sub>2</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> Nanocactus Arrays with Dual-functionalities for High Performance Supercapacitors and Li-ion Batteries. <i>Scientific Reports</i> , <b>2015</b> , 5, 12099	4.9	84
300	Exceptional rate performance of functionalized carbon nanofiber anodes containing nanopores created by (Fe) sacrificial catalyst. <i>Nano Energy</i> , <b>2014</b> , 4, 88-96	17.1	84
299	Improved rate capability of carbon coated Li <sub>3.9</sub> Sn <sub>0.1</sub> Ti <sub>5</sub> O <sub>12</sub> porous electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 10692-10697	8.9	84
298	Correlation between Li Plating Behavior and Surface Characteristics of Carbon Matrix toward Stable Li Metal Anodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802777	21.8	83
297	Forming and failure behaviour of coated, laminated and sandwiched sheet metals: a review. <i>Journal of Materials Processing Technology</i> , <b>1997</b> , 63, 33-42	5.3	81
296	Manufacturing and characterization of carbon fibre/epoxy composite prepregs containing carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 1412-1420	8.4	80
295	Novel mussel-inspired zwitterionic hydrophilic polymer to boost membrane water-treatment performance. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 1-8	9.6	79
294	Facile synthesis of graphene-like copper oxide nanofilms with enhanced electrochemical and photocatalytic properties in energy and environmental applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9682-90	9.5	79

293	The effects of water aging on the interphase region and interlaminar fracture toughness in polymer/glass composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 2185-2195	8.6	79
292	Drop-weight impact damage tolerance of CFRP with rubber-modified epoxy matrix. <i>Composites</i> , <b>1993</b> , 24, 485-494		79
291	Mechanisms of capacity degradation in reduced graphene oxide/MnO <sub>2</sub> nanorod composite cathodes of Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1163-1170	13	78
290	Dual-phase MoS <sub>2</sub> as a high-performance sodium-ion battery anode. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2114-2122	13	76
289	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901623	15.6	75
288	Improved electrical and optical characteristics of transparent graphene thin films produced by acid and doping treatments. <i>Carbon</i> , <b>2011</b> , 49, 2905-2916	10.4	74
287	Dendrite-free lithium metal and sodium metal batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 522-554	19.4	74
286	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702267	21.8	74
285	Novel 2D Sb <sub>2</sub> S <sub>3</sub> Nanosheet/CNT Coupling Layer for Exceptional Polysulfide Recycling Performance. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800710	21.8	74
284	Sandwich-structured graphene/NiFe <sub>2</sub> O <sub>4</sub> /carbon nanocomposite anodes with exceptional electrochemical performance for Li ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8314	13	73
283	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> , <b>2010</b> , 41, 539-548	8.4	73
282	Electrospun graphitic carbon nanofibers with in-situ encapsulated Co/Ni nanoparticles as freestanding electrodes for LiO <sub>2</sub> batteries. <i>Carbon</i> , <b>2016</b> , 100, 329-336	10.4	72
281	Impact response of woven glass-fabric composites. Effect of temperature. <i>Composites Science and Technology</i> , <b>1998</b> , 58, 119-128	8.6	72
280	In Situ TEM Study of Volume Expansion in Porous Carbon Nanofiber/Sulfur Cathodes with Exceptional High-Rate Performance. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602078	21.8	69
279	Ultrathin ZnS nanosheet/carbon nanotube hybrid electrode for high-performance flexible all-solid-state supercapacitor. <i>Nano Research</i> , <b>2017</b> , 10, 2570-2583	10	69
278	Effect of surfactant treatment on thermal stability and mechanical properties of CNT/polybenzoxazine nanocomposites. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1968-1976	8.6	67
277	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> , <b>2018</b> , 28, 1804520	15.6	66
276	Sb-doped SnO <sub>2</sub> /graphene-CNT aerogels for high performance Li-ion and Na-ion battery anodes. <i>Energy Storage Materials</i> , <b>2017</b> , 9, 85-95	19.4	65



275	Nano-indentation and nano-scratch of polymer/glass interfaces. II: model of interphases in water aged composite materials. <i>Polymer</i> , <b>2001</b> , 42, 5701-5710	3.9	65
274	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2282-2294	9.5	65
273	A molecular beacon and graphene oxide-based fluorescent biosensor for Cu(2+) detection. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 43, 379-83	11.8	64
272	Quasi-static and impact fracture behaviors of CFRPs with nanoclay-filled epoxy matrix. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 253-264	8.4	64
271	Cleaning and Functionalization of Polymer Surfaces and Nanoscale Carbon Fillers by UV/Ozone Treatment: A Review. <i>Journal of Composite Materials</i> , <b>2009</b> , 43, 1537-1564	2.7	64
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269	Barrier performance of silane/clay nanocomposite coatings on concrete structure. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 2828-2836	8.6	64
268	Effects of interfacial coating and temperature on the fracture behaviours of unidirectional Kevlar and carbon fibre reinforced epoxy resin composites. <i>Journal of Materials Science</i> , <b>1991</b> , 26, 4702-4720	4.3	63
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266	Carbon-coated mesoporous silicon microsphere anodes with greatly reduced volume expansion. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6098-6106	13	62
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264	Hierarchical, porous CuS microspheres integrated with carbon nanotubes for high-performance supercapacitors. <i>Scientific Reports</i> , <b>2015</b> , 5, 16584	4.9	62
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250	In-situ amino functionalization of carbon nanotubes using ball milling. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 749-53	1.3	53
249	Graphene/Boron Nitride-Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26641-26652	9.5	51
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245	Understanding the roles of activated porous carbon nanotubes as sulfur support and separator coating for lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 268, 1-9	6.7	49
244	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <i>Progress in Materials Science</i> , <b>2021</b> , 115, 100708	42.2	49
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