Jang-Kyo Kim

List of Publications by Year in Descending Order

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	Superinsulating BNNS/PVA Composite Aerogels with High Solar Reflectance for Energy-Efficient Buildings.. *Nano-Micro Letters*, **2022**, 14, 54	19.5	5
399	NaF-rich Solid Electrolyte Interphase for Dendrite-free Sodium Metal Batteries. *Energy Storage Materials*, **2021**, 44, 477-477	19.4	6
398	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. *ACS Nano*, **2021**,	16.7	4
397	Rational Exploration of Conversion-Alloying Reaction Based Anodes for High-Performance K-Ion Batteries **2021**, 3, 406-413		7
396	Revealing Cathode–Electrolyte Interface on Flower-Shaped Na3V2(PO4)3/C Cathode through Cryogenic Electron Microscopy. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100072	1.6	3
395	Anisotropic, Wrinkled, and Crack-Bridging Structure for Ultrasensitive, Highly Selective Multidirectional Strain Sensors. *Nano-Micro Letters*, **2021**, 13, 122	19.5	22
394	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. *Progress in Materials Science*, **2021**, 115, 100708	42.2	49
393	Green Strategies to Printed Sensors for Healthcare Applications. *Polymer Reviews*, **2021**, 61, 116-156	14	12
392	Rationally designed nanostructured metal chalcogenides for advanced sodium-ion batteries. *Energy Storage Materials*, **2021**, 34, 582-628	19.4	29
391	Unveiling solid electrolyte interface morphology and electrochemical kinetics of amorphous Sb2Se3/CNT composite anodes for ultrafast sodium storage. *Carbon*, **2021**, 171, 119-129	10.4	10
390	Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. *Journal of Membrane Science*, **2021**, 619, 118791	9.6	47
389	Discovering melamine-specific bioreceptors via phage display, constructing its validation method based on the quenching on nanocomplex, and applying screened bioreceptor to the electrochemical assay of melamine. *Sensors and Actuators B: Chemical*, **2021**, 330, 129279	8.5	1
388	In situ growth of Sn nanoparticles confined carbon-based TiO2/TiN composite with long-term cycling stability for sodium-ion batteries. *Electrochimica Acta*, **2021**, 367, 137450	6.7	8
387	Recent advances of bimetallic nanomaterials and its nanocomposites for biosensing applications. *TrAC - Trends in Analytical Chemistry*, **2021**, 135, 116159	14.6	12
386	Flexible temperature sensors made of aligned electrospun carbon nanofiber films with outstanding sensitivity and selectivity towards temperature. *Materials Horizons*, **2021**, 8, 1488-1498	14.4	22
385	Metal–organic framework-derived carbon as a positive electrode for high-performance vanadium redox flow batteries. *Journal of Materials Chemistry A*, **2021**, 9, 5648-5656	13	8
384	Beyond homogeneous dispersion: oriented conductive fillers for high nanocomposites. *Materials Horizons*, **2021**, 8, 3009-3042	14.4	3

383	Hierarchical crumpled NiMnO@MXene composites for high rate ion transport electrochemical supercapacitors. *Dalton Transactions*, **2021**, 50, 9827-9832	4.3	1
382	Enhanced Oxygen Evolution Reaction by Efficient Bubble Dynamics of Aligned Nonoxidized Graphene Aerogels. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 10326-10334	8.3	3
381	Recent advances in emerging nonaqueous K-ion batteries: from mechanistic insights to practical applications. *Energy Storage Materials*, **2021**, 39, 305-346	19.4	9
380	Morphology, chemistry, performance trident: Insights from hollow, mesoporous carbon nanofibers for dendrite-free sodium metal batteries. *Nano Energy*, **2021**, 86, 106132	17.1	13
379	MXene/polyurethane auxetic composite foam for electromagnetic interference shielding and impact attenuation. *Composites Part A: Applied Science and Manufacturing*, **2021**, 147, 106430	8.4	17
378	Understanding solid electrolyte interphases: Advanced characterization techniques and theoretical simulations. *Nano Energy*, **2021**, 89, 106489	17.1	12
377	Sodium Batteries: Sodiophilically Graded Gold Coating on Carbon Skeletons for Highly Stable Sodium Metal Anodes (Small 40/2020). *Small*, **2020**, 16, 2070223	11	0
376	Inter-overlapped MoS/C composites with large-interlayer-spacing for high-performance sodium-ion batteries. *Nanoscale Horizons*, **2020**, 5, 1127-1135	10.8	18
375	3D graphene and boron nitride structures for nanocomposites with tailored thermal conductivities: recent advances and perspectives. *Functional Composites and Structures*, **2020**, 2, 022001	3.5	15
374	Enhancement of MoTe2 near-infrared absorption with gold hollow nanorods for photodetection. *Nano Research*, **2020**, 13, 1636-1643	10	9
373	Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. *Materials Horizons*, **2020**, 7, 2378-2389	14.4	30
372	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. *Advanced Functional Materials*, **2020**, 30, 1910826	15.6	111
371	Affinity-engineered carbon nanofibers as a scaffold for Na metal anodes. *Journal of Materials Chemistry A*, **2020**, 8, 14757-14768	13	14
370	Thin solid electrolyte interface on chemically bonded Sb2Te3/CNT composite anodes for high performance sodium ion full cells. *Nano Energy*, **2020**, 71, 104613	17.1	25
369	Hydrogel-derived VPO/porous carbon framework for enhanced lithium and sodium storage. *Nanoscale*, **2020**, 12, 3812-3819	7.7	15
368	Molybdenum Disulfide Based Nanomaterials for Rechargeable Batteries. *Chemistry - A European Journal*, **2020**, 26, 6296-6319	4.8	27
367	Metal–organic framework-induced mesoporous carbon nanofibers as an ultrastable Na metal anode host. *Journal of Materials Chemistry A*, **2020**, 8, 10269-10282	13	24
366	Graphene-based wearable piezoresistive physical sensors. *Materials Today*, **2020**, 36, 158-179	21.8	109

365	Dual-phase MoS2 as a high-performance sodium-ion battery anode. *Journal of Materials Chemistry A* , **2020**, 8, 2114-2122	13	76
364	A 3D porous FeP/rGO modulated separator as a dual-function polysulfide barrier for high-performance lithium sulfur batteries. *Nanoscale Horizons*, **2020**, 5, 530-540	10.8	44
363	Dendrite-free lithium metal and sodium metal batteries. *Energy Storage Materials*, **2020**, 27, 522-554	19.4	74
362	MoSe2 nanosheets embedded in nitrogen/phosphorus co-doped carbon/graphene composite anodes for ultrafast sodium storage. *Journal of Power Sources*, **2020**, 476, 228660	8.9	9
361	Sodiophilically Graded Gold Coating on Carbon Skeletons for Highly Stable Sodium Metal Anodes. *Small*, **2020**, 16, e2003815	11	20
360	Multifunctional microcellular PVDF/Ni-chains composite foams with enhanced electromagnetic interference shielding and superior thermal insulation performance. *Chemical Engineering Journal*, **2020**, 379, 122304	14.7	108
359	Role of the anatase/TiO2(B) heterointerface for ultrastable high-rate lithium and sodium energy storage performance. *Nanoscale Horizons*, **2020**, 5, 150-162	10.8	56
358	Novel onion-like graphene aerogel beads for efficient solar vapor generation under non-concentrated illumination. *Journal of Materials Chemistry A*, **2019**, 7, 4400-4407	13	49
357	3D pomegranate-like TiN@graphene composites with electrochemical reaction chambers as sulfur hosts for ultralong-life lithium-sulfur batteries. *Nanoscale Horizons*, **2019**, 4, 531-539	10.8	35
356	Non-flammable electrolyte for dendrite-free sodium-sulfur battery. *Energy Storage Materials*, **2019**, 23, 8-16	19.4	60
355	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. *Advanced Functional Materials*, **2019**, 29, 1901623	15.6	75
354	Two-dimensional porous silicon nanosheets as anode materials for high performance lithium-ion batteries. *Nanoscale*, **2019**, 11, 10984-10991	7.7	32
353	Ultrafast Li+ Diffusion Kinetics of 2D Oxidized Phosphorus for Quasi-Solid-State Bendable Batteries with Exceptional Energy Densities. *Chemistry of Materials*, **2019**, 31, 4113-4123	9.6	13
352	Self-limiting electrode with double-carbon layers as walls for efficient sodium storage performance. *Nanoscale*, **2019**, 11, 11025-11032	7.7	9
351	Graphene Oxide Aerogel Beads Filled with Phase Change Material for Latent Heat Storage and Release. *ACS Applied Energy Materials*, **2019**, 2, 3657-3664	6.1	33
350	Tungsten Nitride/Carbon Cloth as Bifunctional Electrode for Effective Polysulfide Recycling. *ACS Applied Energy Materials*, **2019**, 2, 3314-3322	6.1	20
349	Nitrogen-doped graphene fiber webs for multi-battery energy storage. *Nanoscale*, **2019**, 11, 6334-6342	7.7	28
348	Fabrication of Ti3+ doped TiO2 coated Mn3O4 nanorods with voids and channels for lithium storage. *Chemical Engineering Journal*, **2019**, 370, 1425-1433	14.7	24

347	Graphene/RuO2 nanocrystal composites as sulfur host for lithium-sulfur batteries. *Journal of Energy Chemistry*, **2019**, 35, 204-211	12	21
346	Novel mussel-inspired zwitterionic hydrophilic polymer to boost membrane water-treatment performance. *Journal of Membrane Science*, **2019**, 582, 1-8	9.6	79
345	Nano-fibrous composite sound absorbers inspired by owl feather surfaces. *Applied Acoustics*, **2019**, 156, 151-157	3.1	6
344	Building 3D Architecture in 2D Thin Film for Effective EMI Shielding. *Matter*, **2019**, 1, 796-798	12.7	8
343	CrO nanosheet/carbon cloth anode with strong interaction and fast charge transfer for pseudocapacitive energy storage in lithium-ion batteries.. *RSC Advances*, **2019**, 9, 33446-33453	3.7	13
342	A stretchable, conformable, and biocompatible graphene strain sensor based on a structured hydrogel for clinical application. *Journal of Materials Chemistry A*, **2019**, 7, 27099-27109	13	32
341	Electrosprayed multiscale porous carbon microspheres as sulfur hosts for long-life lithium-sulfur batteries. *Carbon*, **2019**, 141, 16-24	10.4	41
340	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. *ACS Applied Materials & Interfaces*, **2019**, 11, 2282-2294	9.5	65
339	Correlation between Li Plating Behavior and Surface Characteristics of Carbon Matrix toward Stable Li Metal Anodes. *Advanced Energy Materials*, **2019**, 9, 1802777	21.8	83
338	2D MoS2 grown on biomass-based hollow carbon fibers for energy storage. *Applied Surface Science*, **2019**, 469, 854-863	6.7	59
337	Cable-like double-carbon layers for fast ion and electron transport: An example of CNT@NCT@MnO2 3D nanostructure for high-performance supercapacitors. *Carbon*, **2019**, 143, 335-342	10.4	37
336	Ultrathin Sb2S3 nanosheet anodes for exceptional pseudocapacitive contribution to multi-battery charge storage. *Energy Storage Materials*, **2019**, 20, 36-45	19.4	42
335	Vertically aligned ultrathin MoS2 nanosheets grown on graphene-wrapped hollow carbon microtubes derived from loofah sponge as advanced anodes for highly reversible lithium storage. *Electrochimica Acta*, **2019**, 296, 989-998	6.7	30
334	Understanding the roles of activated porous carbon nanotubes as sulfur support and separator coating for lithium-sulfur batteries. *Electrochimica Acta*, **2018**, 268, 1-9	6.7	49
333	Hierarchical MoS2/Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 5668-5677	13	100
332	Carbon nanomaterials for advanced lithium sulfur batteries. *Nano Today*, **2018**, 19, 84-107	17.9	267
331	Evolution of Hollow N-Doped Mesoporous Carbon Microspheres from Outdated Milk as Sulfur Cathodes for Lithium-Sulfur Batteries. *ChemistrySelect*, **2018**, 3, 3952-3957	1.8	10
330	An Ultralight Graphene Honeycomb Sandwich for Stretchable Light-Emitting Displays. *Advanced Functional Materials*, **2018**, 28, 1707043	15.6	39

329	Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. *ACS Applied Materials & Interfaces*, **2018**, 10, 6580-6592	9.5	54
328	Revealing Pseudocapacitive Mechanisms of Metal Dichalcogenide SnS2/Graphene-CNT Aerogels for High-Energy Na Hybrid Capacitors. *Advanced Energy Materials*, **2018**, 8, 1702488	21.8	107
327	Graphene-Directed Formation of a Nitrogen-Doped Porous Carbon Sheet with High Catalytic Performance for the Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2018**, 122, 13508-13514	3.8	15
326	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. *Materials Horizons*, **2018**, 5, 275-284	14.4	87
325	Core-shell structured Ni3S2 nanorods grown on interconnected Ni-graphene foam for symmetric supercapacitors. *Electrochimica Acta*, **2018**, 271, 507-518	6.7	30
324	4.2 Effect of Interface Strength on Metal Matrix Composites Properties **2018**, 22-59		3
323	Restoration of Degraded Nickel-Rich Cathode Materials for Long-Life Lithium-Ion Batteries. *ChemElectroChem*, **2018**, 5, 78-83	4.3	34
322	Mesoporous MnCoS nanosheet arrays as an efficient catalyst for Li-O batteries. *Nanoscale*, **2018**, 10, 15588-15599	7.7	47
321	In Situ Formation of Copper-Based Hosts Embedded within 3D N-Doped Hierarchically Porous Carbon Networks for Ultralong Cycle Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2018**, 28, 1804520	15.6	66
320	Ultrafine SnO2 nanoparticles encapsulated in ordered mesoporous carbon framework for Li-ion battery anodes. *Electrochimica Acta*, **2018**, 284, 436-443	6.7	46
319	Graphene/Boron Nitride-Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. *ACS Applied Materials & Interfaces*, **2018**, 10, 26641-26652	9.5	51
318	Size-dependent effects of graphene oxide on the osteogenesis of human adipose-derived mesenchymal stem cells. *Colloids and Surfaces B: Biointerfaces*, **2018**, 169, 20-29	6	29
317	Densely-stacked N-doped mesoporous TiO2/carbon microsphere derived from outdated milk as high-performance electrode material for energy storages. *Ceramics International*, **2018**, 44, 16265-16272	5.1	16
316	Room-temperature liquid metal-based anodes for high-energy potassium-based electrochemical devices. *Chemical Communications*, **2018**, 54, 8032-8035	5.8	35
315	Sliced graphene foam films for dual-functional wearable strain sensors and switches. *Nanoscale Horizons*, **2018**, 3, 35-44	10.8	60
314	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702267	21.8	74
313	Rational design of double-confined Mn2O3/S@Al2O3 nanocube cathodes for lithium-sulfur batteries. *Journal of Solid State Electrochemistry*, **2018**, 22, 849-858	2.6	16
312	Highly conductive porous graphene/sulfur composite ribbon electrodes for flexible lithium-sulfur batteries. *Nanoscale*, **2018**, 10, 21132-21141	7.7	20

311	Rational Design of 3D Honeycomb-Like SnS Quantum Dots/rGO Composites as High-Performance Anode Materials for Lithium/Sodium-Ion Batteries. *Nanoscale Research Letters*, **2018**, 13, 389	5	22
310	Metallic MoS nanosheets: multifunctional electrocatalyst for the ORR, OER and Li-O batteries. *Nanoscale*, **2018**, 10, 22549-22559	7.7	61
309	Highly Conductive and Fracture-Resistant Epoxy Composite Based on Non-oxidized Graphene Flake Aerogel. *ACS Applied Materials & Interfaces*, **2018**, 10, 37507-37516	9.5	41
308	Co Nanoparticles Encapsulated in Porous N-Doped Carbon Nanofibers as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. *Journal of the Electrochemical Society*, **2018**, 165, J3271-J3275	3.9	20
307	Chemical interactions between red P and functional groups in NiP3/CNT composite anodes for enhanced sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 20184-20194	13	36
306	In situ TEM study of lithiation into a PPy coated MnO2/graphene foam freestanding electrode. *Materials Chemistry Frontiers*, **2018**, 2, 1481-1488	7.8	12
305	Novel 2D Sb2S3 Nanosheet/CNT Coupling Layer for Exceptional Polysulfide Recycling Performance. *Advanced Energy Materials*, **2018**, 8, 1800710	21.8	74
304	In Situ TEM Study of Volume Expansion in Porous Carbon Nanofiber/Sulfur Cathodes with Exceptional High-Rate Performance. *Advanced Energy Materials*, **2017**, 7, 1602078	21.8	69
303	Heterogeneous, mesoporous NiCo2O4MnO2/graphene foam for asymmetric supercapacitors with ultrahigh specific energies. *Journal of Materials Chemistry A*, **2017**, 5, 3547-3557	13	91
302	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2017**, 9, 9059-9069	9.5	321
301	A Catalytic Etching-Wetting-Dewetting Mechanism in the Formation of Hollow Graphitic Carbon Fiber. *CheM*, **2017**, 2, 299-310	16.2	38
300	Construction of tubular polypyrrole-wrapped biomass-derived carbon nanospheres as cathode materials for lithiumsulfur batteries. *Journal Physics D: Applied Physics*, **2017**, 50, 115002	3	14
299	Porous RuO2 nanosheet/CNT electrodes for DMSO-based Li-O2 and Li ion O2 batteries. *Energy Storage Materials*, **2017**, 8, 110-118	19.4	25
298	Facile Synthesis of Holothurian-Like MnS/Carbon Nanotube Nanocomposites for Flexible All-Solid-State Supercapacitors. *ChemNanoMat*, **2017**, 3, 551-559	3.5	14
297	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. *Energy Storage Materials*, **2017**, 9, 134-139	19.4	17
296	Sb-doped SnO2/graphene-CNT aerogels for high performance Li-ion and Na-ion battery anodes. *Energy Storage Materials*, **2017**, 9, 85-95	19.4	65
295	Atomic scale, amorphous FeOx/carbon nanofiber anodes for Li-ion and Na-ion batteries. *Energy Storage Materials*, **2017**, 8, 10-19	19.4	62
294	Ultrathin ZnS nanosheet/carbon nanotube hybrid electrode for high-performance flexible all-solid-state supercapacitor. *Nano Research*, **2017**, 10, 2570-2583	10	69

293	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. *Materials Horizons*, **2017**, 4, 477-486	14.4	148
292	Recent progress in rational design of anode materials for high-performance Na-ion batteries. *Energy Storage Materials*, **2017**, 7, 64-114	19.4	180
291	LithiumSulfur Battery Cable Made from Ultralight, Flexible Graphene/Carbon Nanotube/Sulfur Composite Fibers. *Advanced Functional Materials*, **2017**, 27, 1604815	15.6	147
290	Discovering a First-Order Phase Transition in the Li-CeO System. *Nano Letters*, **2017**, 17, 1282-1288	11.5	19
289	Unveiling the Unique Phase Transformation Behavior and Sodiation Kinetics of 1D van der Waals Sb2S3 Anodes for Sodium Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1602149	21.8	125
288	Growth of Carbon Nanotubes on Electrospun Cellulose Fibers for High Performance Supercapacitors. *Journal of the Electrochemical Society*, **2017**, 164, A3220-A3228	3.9	18
287	Ultrafast-Charging and Long-Life Li-Ion Battery Anodes of TiO-B and Anatase Dual-Phase Nanowires. *ACS Applied Materials & Interfaces*, **2017**, 9, 35917-35926	9.5	48
286	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites as excellent sound absorber. *Composites Part A: Applied Science and Manufacturing*, **2017**, 102, 391-399	8.4	35
285	Facile Solution Synthesis of Tungsten Trioxide Doped with Nanocrystalline Molybdenum Trioxide for Electrochromic Devices. *Scientific Reports*, **2017**, 7, 13258	4.9	32
284	Positive role of oxygen vacancy in electrochemical performance of CoMn 2 O 4 cathodes for Li-O 2 batteries. *Journal of Power Sources*, **2017**, 365, 134-147	8.9	62
283	Ultrahigh dielectric constant and low loss of highly-aligned graphene aerogel/poly(vinyl alcohol) composites with insulating barriers. *Carbon*, **2017**, 123, 385-394	10.4	86
282	Nanosilicon anodes for high performance rechargeable batteries. *Progress in Materials Science*, **2017**, 90, 1-44	42.2	133
281	Encapsulation of Se/C into ultra-thin Ni(OH)2 nanosheets as cathode materials for lithium-selenium batteries. *Journal of Solid State Electrochemistry*, **2017**, 21, 3611-3618	2.6	9
280	A high-performance lithium ion oxygen battery consisting of Li2O2 cathode and lithiated aluminum anode with nafion membrane for reduced O2 crossover. *Nano Energy*, **2017**, 40, 258-263	17.1	31
279	Copper sulfide nanoneedles on CNT backbone composite electrodes for high-performance supercapacitors and Li-S batteries. *Journal of Solid State Electrochemistry*, **2017**, 21, 349-359	2.6	20
278	Reprint of Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. *Composites Part A: Applied Science and Manufacturing*, **2017**, 92, 190-197	8.4	46
277	Monodisperse Copper Nanoparticles on Porphyrin-Derived FeN-Doped Carbon for Hydrogen Generation from Ammonia Borane. *Science of Advanced Materials*, **2017**, 9, 1572-1577	2.3	3
276	Ultrafine TiO2 Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithium-Sulfur Battery. *ACS Applied Materials & Interfaces*, **2016**, 8, 23105-13	9.5	167

275	Effect of functionalization on thermal conductivities of graphene/epoxy composites. *Carbon*, **2016**, 108, 412-422	10.4	135
274	Enhanced conversion reaction kinetics in low crystallinity SnO2/CNT anodes for Na-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 10964-10973	13	102
273	Study of lithiation mechanisms of high performance carbon-coated Si anodes by in-situ microscopy. *Energy Storage Materials*, **2016**, 3, 45-54	19.4	41
272	Electrospun graphitic carbon nanofibers with in-situ encapsulated CoNi nanoparticles as freestanding electrodes for Li-O2 batteries. *Carbon*, **2016**, 100, 329-336	10.4	72
271	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. *Composites Part A: Applied Science and Manufacturing*, **2016**, 85, 199-206	8.4	139
270	Carbon-coated mesoporous silicon microsphere anodes with greatly reduced volume expansion. *Journal of Materials Chemistry A*, **2016**, 4, 6098-6106	13	62
269	Effects of silane surfactant on Nano-ZnO and rheology properties of nano-ZnO/epoxy on the UV absorbability of nano-ZnO/epoxy/micron-HGF composite. *Composites Part B: Engineering*, **2016**, 90, 378-385	10	21
268	NiCo2O4/CNT nanocomposites as bi-functional electrodes for Li ion batteries and supercapacitors. *Carbon*, **2016**, 102, 262-272	10.4	106
267	Graphene Oxide Papers Simultaneously Doped with Mg(2+) and Cl(-) for Exceptional Mechanical, Electrical, and Dielectric Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 2360-71	9.5	28
266	Porous graphene oxide/carbon nanotube hybrid films as interlayer for lithium-sulfur batteries. *Carbon*, **2016**, 99, 624-632	10.4	216
265	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. *Progress in Materials Science*, **2016**, 76, 319-380	42.2	460
264	Formation and Functionality of Interphase in Polymer Nanocomposites **2016**, 103-138		
263	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. *Nano Letters*, **2016**, 16, 3585-93	11.5	233
262	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. *Chemistry of Materials*, **2016**, 28, 6731-6741	9.6	112
261	Anomalous Enhancement of Li-O2 Battery Performance with Li2O2 Films Assisted by NiFeOx Nanofiber Catalysts: Insights into Morphology Control. *Advanced Functional Materials*, **2016**, 26, 8290-8299	15.6	39
260	Three-Dimensional Porous Graphene Aerogel Cathode with High Sulfur Loading and Embedded TiO Nanoparticles for Advanced Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 28663-28670	9.5	87
259	Hierarchical Core/Shell NiCo2O4@NiCo2O4 Nanocactus Arrays with Dual-functionalities for High Performance Supercapacitors and Li-ion Batteries. *Scientific Reports*, **2015**, 5, 12099	4.9	84
258	Graphene for Transparent Conductors **2015**,		29

257	Controlled synthesis of cobalt carbonate/graphene composites with excellent supercapacitive performance and pseudocapacitive characteristics. *Journal of Materials Chemistry A*, **2015**, 3, 17827-17836	12	38
256	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li4Ti5O12 Spheres of Densely Packed Nanocrystallites. *Chemistry of Materials*, **2015**, 27, 5647-5656	9.6	111
255	Facile synthesis of graphene-like copper oxide nanofilms with enhanced electrochemical and photocatalytic properties in energy and environmental applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 9682-90	9.5	79
254	Mesoporous CuCo2O4 nanograsses as multi-functional electrodes for supercapacitors and electro-catalysts. *Journal of Materials Chemistry A*, **2015**, 3, 9769-9776	13	149
253	Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. *Carbon*, **2015**, 89, 102-112	10.4	114
252	In-situ TEM examination and exceptional long-term cyclic stability of ultrafine Fe3O4 nanocrystal/carbon nanofiber composite electrodes. *Energy Storage Materials*, **2015**, 1, 25-34	19.4	37
251	Introduction to Transparent Conductive Films **2015**, 1-27		1
250	Fabrication of Graphene-Based Transparent Conducting Thin Films **2015**, 95-122		4
249	Synthesis, Structure, and Properties of Graphene and Graphene Oxide **2015**, 29-94		16
248	Application of Graphene-Based Transparent Conductors (TCs) **2015**, 179-203		1
247	3D network graphene interlayer for excellent interlaminar toughness and strength in fiber reinforced composites. *Carbon*, **2015**, 95, 978-986	10.4	57
246	Planar Porous Graphene Woven Fabric/Epoxy Composites with Exceptional Electrical, Mechanical Properties, and Fracture Toughness. *ACS Applied Materials & Interfaces*, **2015**, 7, 21455-64	9.5	30
245	Detecting Arbitrary DNA Mutations Using Graphene Oxide and Ethidium Bromide. *Analytical Chemistry*, **2015**, 87, 12254-61	7.8	26
244	Mesoporous, hierarchical core/shell structured ZnCo2O4/MnO2 nanocone forests for high-performance supercapacitors. *Nano Energy*, **2015**, 11, 687-696	17.1	254
243	NiFe2O4/graphene nanocomposites with tunable magnetic properties. *Journal of Magnetism and Magnetic Materials*, **2015**, 379, 95-101	2.8	31
242	Hierarchical, porous CuS microspheres integrated with carbon nanotubes for high-performance supercapacitors. *Scientific Reports*, **2015**, 5, 16584	4.9	62
241	Ultrafine Amorphous SnOx Embedded in Carbon Nanofiber/Carbon Nanotube Composites for Li-Ion and Na-Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 5222-5228	15.6	89
240	Electrospun Carbon Nanofibers with in Situ Encapsulated Co□□Nanoparticles as Electrodes for High-Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 13503-11	9.5	165

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