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Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries

DOI: 10.1016/j.electacta.2010.02.025

Electrochimica Acta, 2010, 55, 3909-3914.

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**Version:** 2024-04-27

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#	Paper	IF	Citations
928	.		
927	Cascading Boost Effect on the Capacity of Nitrogen-Doped Graphene Sheets for Li- and Na-Ion Batteries.		
926	Enhanced Adsorption Performance of Aromatics on a Novel Chromium-Based MIL-101@Graphite Oxide Composite.		
925	Graphene supported SnSb@carbon core-shell particles as a superior anode for lithium ion batteries. <b>2010</b> , 12, 1302-1306		122
924	A graphite foil electrode covered with electrochemically exfoliated graphene nanosheets. <b>2010</b> , 12, 1419-1422		46
923	Enhanced cycling performance of Fe <sub>3</sub> O <sub>4</sub> @graphene nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2010</b> , 56, 834-840	6.7	367
922	Enhanced electrochemical lithium storage by graphene nanoribbons. <b>2010</b> , 132, 12556-8		242
921	Graphene electrochemistry: an overview of potential applications. <b>2010</b> , 135, 2768-78		438
920	Graphene anchored with Co <sub>3</sub> O <sub>4</sub> nanoparticles as anode of lithium ion batteries with enhanced reversible capacity and cyclic performance. <b>2010</b> , 4, 3187-94		2201
919	Flexible holey graphene paper electrodes with enhanced rate capability for energy storage applications. <b>2011</b> , 5, 8739-49		434
918	Graphene nanosheets based on controlled exfoliation process for enhanced lithium storage in lithium-ion battery. <b>2011</b> , 20, 756-761		53
917	Nitrogen-doped graphene nanosheet-supported non-precious iron nitride nanoparticles as an efficient electrocatalyst for oxygen reduction. <b>2011</b> , 1, 1349		86
916	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. <b>2011</b> , 22, 405603		43
915	Free-Standing Layer-By-Layer Hybrid Thin Film of Graphene-MnO <sub>2</sub> Nanotube as Anode for Lithium Ion Batteries. <b>2011</b> , 2, 1855-1860		251
914	Graphene based new energy materials. <b>2011</b> , 4, 1113		1637
913	Carbon nanotubes grown in situ on graphene nanosheets as superior anodes for Li-ion batteries. <b>2011</b> , 3, 4323-9		104
912	Synthesis and Measurement of SnO <sub>2</sub> @C/graphene Nanocomposite for Lithium Ion Batteries. <b>2011</b> , 396-398, 2330-2333		

911	Sol-gel synthesis and electrochemical performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /graphene composite anode for lithium-ion batteries. <b>2011</b> , 509, 7205-7209		87
910	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. <b>2011</b> , 13, 15384-402		432
909	Doped graphene sheets as anode materials with superhigh rate and large capacity for lithium ion batteries. <b>2011</b> , 5, 5463-71		1700
908	Nanographene-constructed carbon nanofibers grown on graphene sheets by chemical vapor deposition: high-performance anode materials for lithium ion batteries. <b>2011</b> , 5, 2787-94		249
907	Facile synthesis of MnO <sub>2</sub> /graphene nanocomposites and their high performance as lithium-ion battery anode. <b>2011</b> , 65, 2104-2106		68
906	Easy synthesis and characterization of high quality graphene sheets produced from mesocarbon microbeads. <b>2011</b> , 65, 2739-2741		8
905	Preparation of graphene and TiO <sub>2</sub> layer by layer composite with highly photocatalytic efficiency. <b>2011</b> , 21, 467-471		47
904	Functionalized graphene sheets for arsenic removal and desalination of sea water. <b>2011</b> , 282, 39-45		256
903	Preparation and characterization of core-shell structure Fe <sub>3</sub> O <sub>4</sub> /C nanoparticles with unique stability and high electrochemical performance for lithium-ion battery anode material. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 9233-9239	6.7	45
902	A novel Fe <sub>3</sub> O <sub>4</sub> /SnO <sub>2</sub> /graphene ternary nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 58, 81-88	6.7	68
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900	Sensitive sandwich electrochemical immunosensor for alpha fetoprotein based on prussian blue modified hydroxyapatite. <b>2011</b> , 28, 112-6		58
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898	Pulse electrodeposition of Pt nanocatalysts on graphene-based electrodes for proton exchange membrane fuel cells. <b>2011</b> , 16, 220-224		26
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893	First-principles studies on doped graphene as anode materials in lithium-ion batteries. <b>2011</b> , 130, 209-213		80
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890	Growth and characterization of graphene by chemical reduction of graphene oxide in solution. <b>2011</b> , 208, 2335-2338		15
889	Surface assembly of graphene oxide nanosheets on SiO <sub>2</sub> particles for the selective isolation of hemoglobin. <b>2011</b> , 17, 4864-70		93
888	Highly reversible Co <sub>3</sub> O <sub>4</sub> /graphene hybrid anode for lithium rechargeable batteries. <i>Carbon</i> , <b>2011</b> , 49, 326-332	10.4	327
887	Graphene/nanosized silicon composites for lithium battery anodes with improved cycling stability. <i>Carbon</i> , <b>2011</b> , 49, 1787-1796	10.4	248
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885	Effect of graphene nanosheet addition on the electrochemical performance of anode materials for lithium-ion batteries. <b>2011</b> , 688, 146-55		34
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873	SnO <sub>2</sub> /Graphene Nanocomposite as an Enhanced Anode Material for Lithium Ion Batteries. <b>2012, 465, 108-111</b>	5
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871	Graphene/Li-ion battery. <b>2012, 112, 124323</b>	41
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867	Room-temperature hydrogen sensing with heteronanostructures based on reduced graphene oxide and tin oxide. <b>2012, 51, 11053-7</b>	236
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865	Manganese-incorporated iron(III) oxide-graphene magnetic nanocomposite: synthesis, characterization, and application for the arsenic(III)-sorption from aqueous solution. <b>2012, 14, 1</b>	33
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774	Morphology effects on electrical and thermal properties of binderless graphene aerogels. <b>2013</b> , 561-562, 92-96		36
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577	High-Density Lithium-Ion Energy Storage Utilizing the Surface Redox Reactions in Folded Graphene Films. <b>2015</b> , 27, 3291-3298		64
576	Nitrogen-containing carbon/graphene composite nanosheets with excellent lithium storage performances. <i>Chemical Engineering Journal</i> , <b>2015</b> , 275, 160-167	14.7	27
575	TiO <sub>2</sub> /RGO composite aerogels with controllable and continuously tunable surface wettability for varied aqueous photocatalysis. <b>2015</b> , 174-175, 421-426		91
574	Characteristics of a Graphene Nanoplatelet Anode in Advanced Lithium-Ion Batteries Using Ionic Liquid Added by a Carbonate Electrolyte. <b>2015</b> , 2, 1500085		19
573	Molybdenum oxide-iron oxide/graphene composite as anode materials for lithium ion batteries. <b>2015</b> , 19, 1867-1874		2
572	Graphene-based nano-materials for lithium-sulfur battery and sodium-ion battery. <b>2015</b> , 15, 379-405		190
571	The structure control of ZnS/graphene composites and their excellent properties for lithium-ion batteries. <b>2015</b> , 3, 13384-13389		128
570	Synthesis of free-standing reduced graphene oxide membranes with different thicknesses and comparison of their electrochemical performance as anodes for lithium-ion batteries. <b>2015</b> , 5, 30084-30091		2

569	Ultra-small Co <sub>3</sub> O <sub>4</sub> nanoparticles-reduced graphene oxide nanocomposite as superior anodes for lithium-ion batteries. <b>2015</b> , 17, 8885-93		49
568	LiFePO <sub>4</sub> /C composite cathode via CuO modified graphene nanosheets with enhanced electrochemical performance. <b>2015</b> , 643, 40-48		16
567	Ultra low permittivity/loss CoFe <sub>2</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> /rGO nanohybrids by novel 1-hexanol assisted solvothermal process. <b>2015</b> , 642, 78-82		21
566	Nanocarbon materials: Physicochemical and exploitation properties, synthesis methods, and energetic applications. <b>2015</b> , 53, 130-150		12
565	Coprecipitated 3D nanostructured graphene oxide/Mn <sub>3</sub> O <sub>4</sub> hybrid as anode of lithium-ion batteries. <b>2015</b> , 30, 484-492		14
564	Preparation of self-supporting graphene on flexible graphite sheet and electrodeposition of polyaniline for supercapacitor. <i>Electrochimica Acta</i> , <b>2015</b> , 167, 254-261	6.7	60
563	Reduced Graphene Oxide/Boron Nitride Composite Film as a Novel Binder-Free Anode for Lithium Ion Batteries with Enhanced Performances. <i>Electrochimica Acta</i> , <b>2015</b> , 166, 197-205	6.7	53
562	Precursor-Controlled Synthesis of Nanocarbons for Lithium Ion Batteries. <b>2015</b> , 59-85		
561	Study on reversible hydrogen sorption behaviors of 3LiBH <sub>4</sub> /graphene and 3LiBH <sub>4</sub> /graphene/10 wt% CeF <sub>3</sub> composites. <b>2015</b> , 5, 82916-82923		7
560	Potassium Ion Batteries with Graphitic Materials. <b>2015</b> , 15, 7671-7		680
559	In Situ Activation of Nitrogen-Doped Graphene Anchored on Graphite Foam for a High-Capacity Anode. <b>2015</b> , 9, 8609-16		103
558	Double locked silver-coated silicon nanoparticle/graphene core/shell fiber for high-performance lithium-ion battery anodes. <b>2015</b> , 300, 351-357		38
557	Effect of degree of reduction on the anode performance of reduced graphene oxide in Li-ion batteries. <b>2015</b> , 5, 86237-86241		9
556	Theoretical prediction of silicene as a new candidate for the anode of lithium-ion batteries. <b>2015</b> , 17, 29689-96		48
555	Facile synthesis of high performance hard carbon anode materials for sodium ion batteries. <b>2015</b> , 3, 20560-20564		664
554	Synthesis, characterisation and electrochemical evaluation of reduced graphene oxide modified antimony nanoparticles. <b>2015</b> , 592, 124-134		18
553	High quality graphitized graphene as an anode material for lithium ion batteries. <b>2015</b> , 51, 15979-81		15
552	Hydrogen-Enriched Reduced Graphene Oxide with Enhanced Electrochemical Performance in Lithium Ion Batteries. <b>2015</b> , 27, 266-275		47

551	Self-assembled FeS <sub>2</sub> cubes anchored on reduced graphene oxide as an anode material for lithium ion batteries. <b>2015</b> , 3, 2090-2096		102
550	Facile fabrication of highly flexible graphene paper for high-performance flexible lithium ion battery anode. <b>2015</b> , 5, 3299-3305		27
549	In Situ Thermal Reduction of Graphene Nanosheets Based Poly(methyl methacrylate) Nanocomposites with Effective Reinforcements. <b>2015</b> , 54, 649-658		39
548	Graphdiyne for high capacity and long-life lithium storage. <b>2015</b> , 11, 481-489		262
547	High Electrochemical Performance of LiFePO <sub>4</sub> Cathode Material via In-Situ Microwave Exfoliated Graphene Oxide. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 240-248	6.7	35
546	Bioactive hydroxyapatite/graphene composite coating and its corrosion stability in simulated body fluid. <b>2015</b> , 624, 148-157		138
545	Facile Synthesis of Co <sub>3</sub> O <sub>4</sub> -Graphene Composite as an Anode Material for Lithium-Ion Batteries With Enhanced Reversible Capacity and Cyclic Performance. <b>2015</b> , 45, 614-620		6
544	Stable cycling of SiO <sub>2</sub> nanotubes as high-performance anodes for lithium-ion batteries. <b>2014</b> , 4, 4605		139
543	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. <b>2015</b> , 274, 869-884		307
542	The ternary MnFe <sub>2</sub> O <sub>4</sub> /graphene/polyaniline hybrid composite as negative electrode for supercapacitors. <b>2015</b> , 275, 399-407		141
541	One-pot solvothermal synthesis of graphene wrapped rice-like ferrous carbonate nanoparticles as anode materials for high energy lithium-ion batteries. <b>2015</b> , 7, 232-9		45
540	Co <sub>2</sub> SnO <sub>4</sub> nanocrystals anchored on graphene sheets as high-performance electrodes for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 203-213	6.7	38
539	Semiconductor-to-metallic flipping in a ZnFe <sub>2</sub> O <sub>4</sub> /graphene based smart nano-system: Temperature/microwave magneto-dielectric spectroscopy. <b>2015</b> , 99, 254-265		26
538	Synthesis and lithium-storage properties of MnO/reduced graphene oxide composites derived from graphene oxide plus the transformation of Mn(VI) to Mn(II) by the reducing power of graphene oxide. <b>2015</b> , 3, 297-303		61
537	Preparation and thermomechanical characterisation of graphene nanoplatelets/low-density polyethylene composites. <b>2015</b> , 28, 745-761		4
536	Simple synthesis of novel hierarchical porous carbon microspheres and their application to rechargeable lithium-ion batteries. <i>Carbon</i> , <b>2015</b> , 81, 314-321	10.4	53
535	Characteristic Evaluation of Graphene Oxide for Bisphenol A Adsorption in Aqueous Solution. <b>2016</b> , 6,		39
534	The Application of Graphene and Its Derivatives to Energy Conversion, Storage, and Environmental and Biosensing Devices. <b>2016</b> , 16, 1591-634		48

533	Self-assembled flower-like NiFe <sub>2</sub> O <sub>4</sub> decorated on 2D graphene nanosheets composite and their excellent electrochemical performance as anode materials for LIBs. <b>2016</b> , 686, 905-913		21
532	Germaniumbasierte Nanomaterialien für wiederaufladbare Batterien. <b>2016</b> , 128, 8028-8054		5
531	Germanium-Based Nanomaterials for Rechargeable Batteries. <b>2016</b> , 55, 7898-922		122
530	Binder-free combination of large area reduced graphene oxide nanosheets with Cu foil for lithium ion battery anode. <b>2016</b> , 68, 102-108		10
529	Noncovalent assembly of carbon nanofiber/layered double hydroxide as a reinforcing hybrid filler in thermoplastic polyurethane/nitrile butadiene rubber blends. <b>2016</b> , 133, n/a-n/a		6
528	Direct Chemical Synthesis of MnO <sub>2</sub> Nanowhiskers on Transition-Metal Carbide Surfaces for Supercapacitor Applications. <b>2016</b> , 8, 18806-14		256
527	One-Pot Synthesis of CoSex-rGO Composite Powders by Spray Pyrolysis and Their Application as Anode Material for Sodium-Ion Batteries. <b>2016</b> , 22, 4140-6		106
526	A Safe High-Performance All-Solid-State Lithium-Vanadium Battery with a Freestanding VO Nanowire Composite Paper Cathode. <b>2016</b> , 8, 34309-34316		68
525	Zeolite modified with copper oxide and iron oxide for lead and arsenic adsorption from aqueous solutions. <b>2016</b> , 65, 465-479		51
524	Solid-state NMR Study of Ion Adsorption and Charge Storage in Graphene Film Supercapacitor Electrodes. <b>2016</b> , 6, 39689		15
523	Plasma engineering of graphene. <b>2016</b> , 3, 021301		93
522	A facile route to dually protected Ge@GeO <sub>2</sub> composites as anode materials for lithium ion battery. <i>Chemical Engineering Journal</i> , <b>2016</b> , 296, 349-355	14.7	37
521	Boron oxide/nitrogen oxide/graphene composite as anode materials for lithium ion batteries. <b>2016</b> , 213, 63-68		7
520	High Voltage Li-Ion Battery Using Exfoliated Graphite/Graphene Nanosheets Anode. <b>2016</b> , 8, 10850-7		49
519	Mechanochemical synthesis of Cu-BTC@GO with enhanced water stability and toluene adsorption capacity. <i>Chemical Engineering Journal</i> , <b>2016</b> , 298, 191-197	14.7	132
518	Scalable Seashell-Based Chemical Vapor Deposition Growth of Three-Dimensional Graphene Foams for Oil-Water Separation. <b>2016</b> , 138, 6360-3		177
517	Unusually Huge Charge Storage Capacity of Mn <sub>3</sub> O <sub>4</sub> -Graphene Nanocomposite Achieved by Incorporation of Inorganic Nanosheets. <b>2016</b> , 8, 13360-72		39
516	Graphene-based nitrogen-doped carbon sandwich nanosheets: a new capacitive process controlled anode material for high-performance sodium-ion batteries. <b>2016</b> , 4, 8630-8635		145



515	Sandwich structure of graphene-protected silicon/carbon nanofibers for lithium-ion battery anodes. <i>Electrochimica Acta</i> , <b>2016</b> , 210, 53-60	6.7	57
514	Targeted Delivery of Docetaxel by Use of Transferrin/Poly(allylamine hydrochloride)-functionalized Graphene Oxide Nanocarrier. <b>2016</b> , 8, 13282-93		66
513	Graphene wrapped 3,4,9,10-perylenetetracarboxylic dianhydride as a high-performance organic cathode for lithium ion batteries. <b>2016</b> , 4, 9177-9183		54
512	Computer simulation of a forced drift of lithium ions through graphene membranes. <b>2016</b> , 54, 11-19		8
511	Structurally Defined 3D Nanographene Assemblies via Bottom-Up Chemical Synthesis for Highly Efficient Lithium Storage. <b>2016</b> , 28, 10250-10256		52
510	Flexible nanocomposites with ultrahigh specific areal capacitance and tunable properties based on a cellulose derived nanofiber-carbon sheet framework coated with polyaniline. <b>2016</b> , 4, 13352-13362		35
509	Biocompatible Hydroxyapatite-Based Composite Coatings Obtained by Electrophoretic Deposition for Medical Applications as Hard Tissue Implants. <b>2016</b> , 377-457		3
508	Conveying Advanced Li-ion Battery Materials into Practice The Impact of Electrode Slurry Preparation Skills. <b>2016</b> , 6, 1600655		119
507	Modified Electronic Properties of Graphene. <b>2016</b> , 167-182		
506	Facile synthesis of titanium nitride-graphene nanocomposite and its improved rate-dependent electroactivity with respect to lithium storage. <b>2016</b> , 84, 388-396		6
505	Facile assembly and electrochemical properties of $\text{Fe}_2\text{O}_3$ @graphene aerogel composites as electrode materials for lithium ion batteries. <b>2016</b> , 182, 190-199		20
504	Biomedical and Pharmaceutical Applications of Electrochemistry. <b>2016</b> ,		4
503	Nanostructured energy materials for electrochemical energy conversion and storage: A review. <b>2016</b> , 25, 967-984		316
502	3D graphene-based anode materials for Li-ion batteries. <b>2016</b> , 13, 124-132		15
501	Cascading Boost Effect on the Capacity of Nitrogen-Doped Graphene Sheets for Li- and Na-Ion Batteries. <b>2016</b> , 8, 26722-26729		37
500	Fabrication of cubic spinel $\text{MnCo}_2\text{O}_4$ nanoparticles embedded in graphene sheets with their improved lithium-ion and sodium-ion storage properties. <b>2016</b> , 326, 252-263		47
499	Silicon-based anodes for lithium-ion batteries: Effectiveness of materials synthesis and electrode preparation. <b>2016</b> , 27, 359-376		297
498	Nitrogen-doped graphene assists $\text{Fe}_2\text{O}_3$ in enhancing electrochemical performance. <b>2016</b> , 326, 389-396		37

497	Indium-based metal-organic framework/graphite oxide composite as an efficient adsorbent in the adsorption of rhodamine B from aqueous solution. <b>2016</b> , 687, 804-812		69
496	Solvothermal-induced 3D graphene networks: Role played by the structural and textural properties on lithium storage. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 914-920	6.7	11
495	Synthesis of Fe <sub>2</sub> O <sub>3</sub> /carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. <b>2016</b> , 4, 18223-18239		71
494	Graphene oxide-multiwalled carbon nanotubes composite as an anode for lithium ion batteries. <b>2016</b> , 34, 481-486		3
493	Flower-like Fe <sub>2</sub> O <sub>3</sub> /reduced graphene oxide composite for electrochemical energy storage. <b>2016</b> , 222, 198-204		12
492	Stepwise carbon growth on Si/SiO <sub>x</sub> core-shell nanoparticles and its effects on the microstructures and electrochemical properties for high-performance lithium-ion battery anode. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 535-542	6.7	16
491	CuP/RGO Nanocomposite as a New Anode for Lithium-Ion Batteries. <b>2016</b> , 6, 35189		39
490	Novel synthesis of holey reduced graphene oxide (HRGO) by microwave irradiation method for anode in lithium-ion batteries. <b>2016</b> , 6, 29854		36
489	Density Functional Theory Calculations of Lithium Adsorption and Insertion to Defect-Free and Defective Graphene. <b>2016</b> , 120, 14009-14014		28
488	Synthesis and application of sulfonated graphene oxide for the adsorption of uranium(VI) from aqueous solutions. <b>2016</b> , 310, 547-557		22
487	Scalable synthesis of functionalized graphene as cathodes in Li-ion electrochemical energy storage devices. <b>2016</b> , 175, 512-521		34
486	Porous three-dimensional activated microwave exfoliated graphite oxide as an anode material for lithium ion batteries. <b>2016</b> , 6, 55176-55181		1
485	Chemistry and Applications of Supramolecular Graphene Derivatives. <b>2016</b> , 355-370		1
484	Hollow Si/C composite as anode material for high performance lithium-ion battery. <b>2016</b> , 299, 178-184		28
483	Cellulose nanocrystal/graphene oxide composite film as humidity sensor. <b>2016</b> , 247, 221-226		74
482	A reconstructed graphite-like carbon micro/nano-structure with higher capacity and comparative voltage plateau of graphite. <b>2016</b> , 4, 11462-11471		31
481	Three-dimensional graphene nanosheets loaded with Si nanoparticles by in situ reduction of SiO <sub>2</sub> for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 628-635	6.7	40
480	Chemically integrated hierarchical hybrid zinc cobaltate/reduced graphene oxide microspheres as an enhanced lithium-ion battery anode. <b>2016</b> , 6, 4914-4924		9

479	Layer-by-layer assembly modification to prepare firmly bonded Si/graphene composites for high-performance anodes. <b>2016</b> , 6, 4835-4842		20
478	In Situ Raman and Nuclear Magnetic Resonance Study of Trapped Lithium in the Solid Electrolyte Interface of Reduced Graphene Oxide. <b>2016</b> , 120, 2600-2608		41
477	Porous Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C nanoparticles enwrapped in three-dimensional graphene for high performance sodium-ion batteries. <b>2016</b> , 4, 1180-1185		95
476	Growth of Highly Nitrogen-Doped Amorphous Carbon for Lithium-ion Battery Anode. <i>Electrochimica Acta</i> , <b>2016</b> , 188, 414-420	6.7	59
475	Electrochemical performance of potassium-doped w <sub>6</sub> Te nanoparticles supported on graphene as an anode material for lithium ion batteries. <b>2016</b> , 315, 16-22		6
474	Promotion of reversible Li <sup>+</sup> storage in transition metal dichalcogenides by Ag nanoclusters. <b>2016</b> , 8, e247-e247		16
473	Magnetic MnFe <sub>2</sub> O <sub>4</sub> /graphene hybrid composite for efficient removal of glyphosate from water. <i>Chemical Engineering Journal</i> , <b>2016</b> , 295, 391-402	14.7	159
472	Recent advances in graphene-based hybrid nanostructures for electrochemical energy storage. <b>2016</b> , 1, 340-374		79
471	A compressible and hierarchical porous graphene/Co composite aerogel for lithium-ion batteries with high gravimetric/volumetric capacity. <b>2016</b> , 4, 6021-6028		17
470	Structural and electronic properties of AB- and AA-stacking bilayer-graphene intercalated by Li, Na, Ca, B, Al, Si, Ge, Ag, and Au atoms. <b>2016</b> , 231-232, 57-63		12
469	Ultra-small Fe <sub>3</sub> O <sub>4</sub> nanocrystals decorated on 2D graphene nanosheets with excellent cycling stability as anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 194, 219-227	6.7	57
468	Graphene-based materials with tailored nanostructures for energy conversion and storage. <b>2016</b> , 102, 1-72		189
467	Design and assembly of reduced graphene oxide/polyaniline/urchin-like mesoporous TiO <sub>2</sub> spheres ternary composite and its application in supercapacitors. <b>2016</b> , 92, 405-412		39
466	Density functional theory study of Li binding to graphene. <b>2016</b> , 6, 26540-26545		17
465	Enhanced cycle life and capacity retention of iron oxide ultrathin film coated SnO <sub>2</sub> nanoparticles at high current densities. <b>2016</b> , 6, 24340-24348		7
464	Preparation of graphene foam with high performance by modified self-assembly method. <b>2016</b> , 122, 1		9
463	Lithium diffusion in graphene and graphite: Effect of edge morphology. <i>Carbon</i> , <b>2016</b> , 103, 209-216	10.4	40
462	An Advanced Lithium Ion Battery Based on a Sulfur-Doped Porous Carbon Anode and a Lithium Iron Phosphate Cathode. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 141-149	6.7	32

461	N-Doped graphene frameworks with superhigh surface area: excellent electrocatalytic performance for oxygen reduction. <b>2016</b> , 8, 2795-803	48
460	Simple self-assembly of SnS <sub>2</sub> entrapped graphene aerogel and its enhanced lithium storage performance. <b>2016</b> , 42, 6572-6580	17
459	The temperature effect on mechanical properties of silicon carbide sheet based on density functional treatment. <b>2016</b> , 227, 40-44	6
458	Defect driven tailoring of colossal dielectricity of Reduced Graphene Oxide. <b>2016</b> , 74, 465-471	17
457	A facial solvothermal reduction route for the production of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /graphene composites with enhanced electrochemical performance. <b>2016</b> , 42, 334-340	18
456	Graphene oxide wrapped Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nanocomposite as superior cathode material for sodium-ion batteries. <b>2016</b> , 42, 820-827	31
455	A simple, ultrasensitive sensor for gallic acid and uric acid based on gold microclusters/sulfonate functionalized graphene modified glassy carbon electrode. <b>2016</b> , 224, 915-925	55
454	Nano Devices and Circuit Techniques for Low-Energy Applications and Energy Harvesting. <b>2016</b> ,	3
453	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. <b>2016</b> , 2, 107-138	314
452	Graphene and Two-Dimensional Transition Metal Dichalcogenide Materials for Energy-Related Applications. <b>2016</b> , 253-291	
451	Graphene coated La <sup>3+</sup> /Sc <sup>3+</sup> co-doped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anodes for enhanced Li-ion battery performance. <b>2017</b> , 193, 179-182	8
450	Incommensurate Graphene Foam as a High Capacity Lithium Intercalation Anode. <b>2017</b> , 7, 39944	25
449	Ultrasonic-assisted synthesis of ZnO nano particles decked with few layered graphene nanocomposite as photoanode in dye-sensitized solar cell. <b>2017</b> , 28, 6217-6225	12
448	Multiscale modeling of embedded graphene sheets based on the higher-order Cauchy-Born rule: Nonlinear static analysis. <b>2017</b> , 165, 25-43	17
447	Synthesis, characterization, and thermal aging behavior of HCl-doped polyaniline/TRGO nanocomposites. <b>2017</b> , 134,	8
446	Reduced graphene oxide as a stable and high-capacity cathode material for Na-ion batteries. <b>2017</b> , 7, 40910	41
445	The prospects of phosphorene as an anode material for high-performance lithium-ion batteries: a fundamental study. <b>2017</b> , 28, 075401	36
444	Graphene nanosheet as reinforcement agent in copper matrix composite by using powder metallurgy method. <b>2017</b> , 6, 190-196	25

443	A new method for bending and buckling analysis of rectangular nano plate: full modified nonlocal theory. <b>2017</b> , 52, 2751-2768	5
442	High performance binder-free reduced graphene oxide nanosheets/Cu foam anode for lithium ion battery. <b>2017</b> , 24, 141-147	8
441	N-doped graphene/Bi nanocomposite with excellent electrochemical properties for lithium ion batteries. <b>2017</b> , 23, 1407-1415	21
440	Low-Temperature Synthesis of Graphene/SiC Nanocomposite Anodes with Super-Long Cycling Stability. <b>2017</b> , 4, 1320-1326	9
439	Hydrothermal synthesis of hollow SnO <sub>2</sub> spheres with excellent electrochemical performance for anodes in lithium ion batteries. <b>2017</b> , 96, 443-448	19
438	Bovine Serum Albumin-Coated Graphene Oxide for Effective Adsorption of Uranium(VI) from Aqueous Solutions. <b>2017</b> , 56, 3588-3598	57
437	Collector and binder-free high quality graphene film as a high performance anode for lithium-ion batteries. <b>2017</b> , 7, 1818-1821	6
436	Facile fabrication of TiO <sub>2</sub> /Graphene composite foams with enhanced photocatalytic properties. <b>2017</b> , 703, 251-257	25
435	Schottky barrier at graphene/metal oxide interfaces: insight from first-principles calculations. <b>2017</b> , 7, 41771	17
434	Lithiation mechanisms and lithium storage capacity of reduced graphene oxide nanoribbons: a first-principles study. <b>2017</b> , 5, 4912-4922	18
433	An Initial Review of the Status of Electrode Materials for Potassium-Ion Batteries. <b>2017</b> , 7, 1602911	634
432	Construction and Performance Characterization of Fe <sub>2</sub> O <sub>3</sub> /rGO Composite for Long-Cycling-Life Supercapacitor Anode. <b>2017</b> , 5, 5067-5074	66
431	Graphene Oxide Nanosheets as An Efficient and Reusable Sorbents for Eosin Yellow Dye Removal from Aqueous Solutions. <b>2017</b> , 2, 3598-3607	14
430	Novel design and preparation of N-doped graphene decorated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C composite for sodium-ion batteries. <b>2017</b> , 307, 65-72	15
429	Binder-Free N- and O-Rich Carbon Nanofiber Anodes for Long Cycle Life K-Ion Batteries. <b>2017</b> , 9, 17872-17881	154
428	Supersonic cold spraying of titania nanoparticles on reduced graphene oxide for lithium ion battery anodes. <b>2017</b> , 715, 161-169	12
427	Free-standing sulfur host based on titanium-dioxide-modified porous-carbon nanofibers for lithium-sulfur batteries. <b>2017</b> , 356, 172-180	75
426	In Situ Synthesis of Tungsten-Doped SnO and Graphene Nanocomposites for High-Performance Anode Materials of Lithium-Ion Batteries. <b>2017</b> , 9, 17163-17171	45

425	Synthesis and Characterization of Graphene like Carbon Nanosheet: Interaction with some Drug Molecules and Anticancer Activity. <b>2017</b> , 2, 3516-3526		2
424	Design and synthesis of the composites of multiporous NiMnO <sub>3</sub> micro-nano structure spheres and graphene with alleviated side reaction and enhanced performances as anode materials for lithium ion batteries. <b>2017</b> , 716, 270-277		11
423	Facile synthesis of a MnFe <sub>2</sub> O <sub>4</sub> /rGO nanocomposite for an ultra-stable symmetric supercapacitor. <b>2017</b> , 41, 4974-4984		87
422	Synthesis of one-dimensional graphene-encapsulated TiO <sub>2</sub> nanofibers with enhanced lithium storage capacity for lithium-ion batteries. <b>2017</b> , 21, 2313-2320		4
421	In situ growth of single-stranded like poly (o-phenylenediamine) onto graphene for high performance supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 245, 41-50	6.7	41
420	Prussian blue and its derivatives as electrode materials for electrochemical energy storage. <b>2017</b> , 9, 11-30		204
419	A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. <b>2017</b> , 5, 12073-12079		24
418	Nitrogen-doped hierarchical carbon spheres derived from MnO <sub>2</sub> -templated spherical polypyrrole as excellent high rate anode of Li-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 245, 279-286	6.7	27
417	Rh/Ni wet-impregnated Ia3d mesostructured aluminosilicate and r-GO catalysts for hydrodeoxygenation of phenoxybenzene. <b>2017</b> , 41, 7893-7907		12
416	Porous graphene paper for supercapacitor applications. <b>2017</b> , 33, 793-799		43
415	Understanding the Li-storage in few layers graphene with respect to bulk graphite: experimental, analytical and computational study. <b>2017</b> , 5, 8662-8679		45
414	Graphene material preparation through thermal treatment of graphite oxide electrochemically synthesized in aqueous sulfuric acid. <b>2017</b> , 7, 19904-19911		50
413	Quenched breathing effect, enhanced CO <sub>2</sub> uptake and improved CO <sub>2</sub> /CH <sub>4</sub> selectivity of MIL-53(Cr)/graphene oxide composites. <b>2017</b> , 167, 98-104		28
412	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <b>2017</b> , 117, 6225-6331		2919
411	A novel hierarchical graphene/polyaniline hollow microsphere as electrode material for supercapacitor applications. <b>2017</b> , 52, 7969-7983		33
410	A high strength, free-standing cathode constructed by regulating graphitization and the pore structure in nitrogen-doped carbon nanofibers for flexible lithium-sulfur batteries. <b>2017</b> , 5, 6832-6839		79
409	Zinc ions enhanced nacre-like chitosan/graphene oxide composite film with superior mechanical and shape memory properties. <i>Chemical Engineering Journal</i> , <b>2017</b> , 321, 502-509	14.7	42
408	Exfoliated clay nanosheets as an efficient additive for improving the electrode functionality of graphene-based nanocomposites. <b>2017</b> , 4, 521-529		9

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406	Synthesis and electrochemical properties of FeCO <sub>3</sub> with different morphology for lithium-ion battery application. <b>2017</b> , 698, 87-93	15
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403	Mechanisms of Sodium Insertion/Extraction on the Surface of Defective Graphenes. <b>2017</b> , 9, 431-438	15
402	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. <b>2017</b> , 7, 1601578	92
401	In vitro investigation of electrophoretically deposited bioactive hydroxyapatite/chitosan coatings reinforced by graphene. <b>2017</b> , 47, 336-347	38
400	VS <sub>2</sub> /Graphene Heterostructures as Promising Anode Material for Li-Ion Batteries. <b>2017</b> , 121, 24179-24184	52
399	Synthesis of functionalized graphite oxide films by three-dimensional self-assembly for lithium ion battery anodes. <b>2017</b> , 226, 164-170	3
398	Facile fabrication of graphene-encapsulated Mn <sub>3</sub> O <sub>4</sub> octahedra cross-linked with a silver network as a high-capacity anode material for lithium ion batteries. <b>2017</b> , 41, 13454-13461	10
397	Ultrafast synthesis of Te nanorods as cathode materials for lithium-tellurium batteries. <b>2017</b> , 371, 48-54	14
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388	Synthesis of aluminum-based MOF/graphite oxide composite and enhanced removal of methyl orange. <b>2017</b> , 724, 625-632	36
387	Graphene-based composite electrodes for electrochemical energy storage devices: Recent progress and challenges. <b>2017</b> , 6, 48-76	22
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384	Ultrathin Fe <sub>2</sub> O <sub>3</sub> nanoflakes using smart chemical stripping for high performance lithium storage. <b>2017</b> , 5, 18737-18743	48
383	Nitrogen-Deficient Graphitic Carbon Nitride with Enhanced Performance for Lithium Ion Battery Anodes. <b>2017</b> , 11, 12650-12657	195
382	Designing flexible 2D transition metal carbides with strain-controllable lithium storage. <b>2017</b> , 114, E11082-E11091	100
381	Effect of milling on dispersion of graphene nanosheet reinforcement in different morphology copper powder matrix. <b>2017</b> , 9, 260-265	15
380	Graphene-Like-Graphite as Fast-Chargeable and High-Capacity Anode Materials for Lithium Ion Batteries. <b>2017</b> , 7, 14782	77
379	Gd <sub>3</sub> N alloys and Gd <sub>3</sub> N/graphene composites as anode materials for lithium-ion batteries. <b>2017</b> , 41, 7992-7997	7
378	Synthesis of Copper Oxide/Graphite Composite for High-Performance Rechargeable Battery Anode. <b>2017</b> , 23, 11629-11635	8
377	Surface Treatments for Controlling Solid Electrolyte Interphase Formation on Sn/Graphene Composite Anodes for High-Performance Li-Ion Batteries. <b>2017</b> , 121, 16682-16692	4
376	Effect of propylene carbonate-Li <sup>+</sup> solvation structures on graphite exfoliation and its application in Li-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 247, 12-18	6.7 31
375	Graphene and graphene-based composites as Li-ion battery electrode materials and their application in full cells. <b>2017</b> , 5, 15423-15446	133
374	A novel visible-light-driven In-based MOF/graphene oxide composite photocatalyst with enhanced photocatalytic activity toward the degradation of amoxicillin. <b>2017</b> , 200, 673-680	176
373	In situ growth of ultrashort rice-like CuO nanorods supported on reduced graphene oxide nanosheets and their lithium storage performance. <b>2017</b> , 23, 607-616	6
372	Synthesis and modification of FeVO <sub>4</sub> as novel anode for lithium-ion batteries. <b>2017</b> , 394, 183-189	42



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370	Electrical, thermal and electrochemical properties of disordered carbon prepared from palygorskite and cane molasses. <b>2017</b> , 246, 404-411	5
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365	The Grafting of PE-g-MA Chains on Graphene Derivatives to Improve Tensile Properties of Polyethylene. <b>2017</b> , 32, 623-636	4
364	Enhanced Electrochemical Performance by Strongly Anchoring Highly Crystalline Polyaniline on Multiwalled Carbon Nanotubes. <b>2017</b> , 9, 43939-43949	31
363	A novel elevated temperature pre-treatment for electrochemical capacity enhancement of graphene nanoflake-based anodes. <b>2018</b> , 7, 1	1
362	Preparation, characterization and heterogeneous catalytic applications of GO/Fe <sub>3</sub> O <sub>4</sub> /HPW nanocomposite in chemoselective and green oxidation of alcohols with aqueous H <sub>2</sub> O <sub>2</sub> . <b>2018</b> , 32, e4323	16
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360	Synthesis and Chemical Modification of Graphene. <b>2018</b> , 107-119	
359	Graphene Applications in Sensors. <b>2018</b> , 125-132	
358	Graphene Applications in Batteries and Energy Devices. <b>2018</b> , 133-139	2
357	Medical and Pharmaceutical Applications of Graphene. <b>2018</b> , 149-150	1
356	Graphene Applications in Specialized Materials. <b>2018</b> , 151-154	
355	Miscellaneous Applications of Graphene. <b>2018</b> , 155-155	
354	Basic Electrochromics of CPs. <b>2018</b> , 251-282	

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352	Brief, General Overview of Applications. <b>2018</b> , 43-44		
351	CNT Applications in Batteries and Energy Devices. <b>2018</b> , 49-52		1
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349	Nano tin dioxide anchored onto carbon nanotube/graphene skeleton as anode material with superior lithium-ion storage capability. <b>2018</b> , 815, 30-39		19
348	Graphene Oxide Based Fruit Ripeness Sensing e-Nose. <b>2018</b> , 5, 9866-9870		3
347	Poly(vinyl alcohol)-Assisted Fabrication of Hollow Carbon Spheres/Reduced Graphene Oxide Nanocomposites for High-Performance Lithium-Ion Battery Anodes. <b>2018</b> , 12, 4824-4834		106
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345	Adsorption contributions of graphene to sodium ion storage performance. <b>2018</b> , 51, 205501		8
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342	Freestanding 3D single-wall carbon nanotubes/WS <sub>2</sub> nanosheets foams as ultra-long-life anodes for rechargeable lithium ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 267, 133-140	6.7	44
341	Silicon-Based Anodes for Lithium-Ion Batteries: From Fundamentals to Practical Applications. <b>2018</b> , 14, 1702737		433
340	Flower-like Vanadium Sulfide/Reduced Graphene Oxide Composite: An Energy Storage Material for Aluminum-Ion Batteries. <b>2018</b> , 11, 709-715		79
339	The effect of aluminum phosphinate on char formation of phosphorus-containing deoxybenzoin polymer. <b>2018</b> , 30, 1019-1026		1
338	HA/rGO/Pd nanocomposite thin film coating on SST 304 - Synthesize, characterization, and properties investigations. <b>2018</b> , 741, 562-574		10
337	In-situ single-step chemical synthesis of graphene-decorated CoFe <sub>2</sub> O <sub>4</sub> composite with enhanced Li ion storage behaviors. <i>Electrochimica Acta</i> , <b>2018</b> , 263, 515-523	6.7	92
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335	Mechanical properties and strain monitoring of glass-epoxy composites with graphene-coated fibers. <b>2018</b> , 107, 112-123	74
334	Room temperature LPG resistive sensor based on the use of a few-layer graphene/SnO nanocomposite. <b>2017</b> , 185, 69	18
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331	Heteroatom-doped carbonaceous electrode materials for high performance energy storage devices. <b>2018</b> , 2, 1398-1429	48
330	Acryloyl-group functionalized graphene for enhancing thermal and mechanical properties of acrylated epoxidized soybean oil UV-curable based coatings. <b>2018</b> , 118, 57-65	19
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328	Large-scale production of high-quality graphene sheets by a non-electrified electrochemical exfoliation method. <i>Carbon</i> , <b>2018</b> , 126, 507-513	10.4 61
327	Fe-N-doped carbon nanofiber and graphene modified separator for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2018</b> , 333, 564-571	14.7 117
326	Facile synthesis of N and S co-doped graphene sheets as anode materials for high-performance lithium-ion batteries. <b>2018</b> , 731, 235-242	33
325	Facile synthesis N-doped hollow carbon spheres from spherical solid silica. <b>2018</b> , 511, 203-208	13
324	Hierarchical oxygen-implanted MoS nanoparticle decorated graphene for the non-enzymatic electrochemical sensing of hydrogen peroxide in alkaline media. <b>2018</b> , 176, 397-405	51
323	Flexible WS <sub>2</sub> @CNFs Membrane Electrode with Outstanding Lithium Storage Performance Derived from Capacitive Behavior. <b>2018</b> , 5, 1701080	22
322	Synergism of Rare Earth Trihydrides and Graphite in Lithium Storage: Evidence of Hydrogen-Enhanced Lithiation. <b>2018</b> , 30, 1704353	18
321	Mechanically robust and size-controlled MoS <sub>2</sub> /graphene hybrid aerogels as high-performance anodes for lithium-ion batteries. <b>2018</b> , 53, 4482-4493	23
320	A multifunctional separator modified with cobalt and nitrogen co-doped porous carbon nanofibers for LiB batteries. <b>2018</b> , 548, 247-253	60
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318	Room-Temperature Activation of Molecular Oxygen Over a Metal-Free Triazine-Decorated sp <sup>2</sup> -Carbon Framework for Green Synthesis. <b>2018</b> , 10, 5331-5335	2

317	Graphene oxide-chloroquine nanoconjugate induce necroptotic death in A549 cancer cells through autophagy modulation. <b>2018</b> , 13, 2261-2282		23
316	Evolution of oxygen functionalities in graphene oxide and its impact on structure and exfoliation: An oxidation time based study. <b>2018</b> , 220, 417-425		11
315	Fabrication and Characterization of an Electrospun PHA/Graphene Silver Nanocomposite Scaffold for Antibacterial Applications. <b>2018</b> , 11,		27
314	Nanocomposite polyester fabric based on graphene/titanium dioxide for conducting and UV protection functionality. <b>2018</b> , 3, 35-46		9
313	Phase and Morphology Evolution Induced Lithium Storage Capacity Enhancement of Porous CoO Nanowires Intertwined with Reduced Graphene Oxide Nanosheets. <b>2018</b> , 5, 3679-3687		5
312	Graphene-assisted synthesis of PdFe-embedded porous carbon nanofibers for efficient ethanol electrooxidation. <i>Electrochimica Acta</i> , <b>2018</b> , 289, 311-318	6.7	17
311	Improved Specific Capacity of Nb2O5 by Coating on Carbon Materials for Lithium-Ion Batteries. <b>2018</b> , 5, 3468-3477		5
310	Cation-exchange-inducing MnNi-spinel nanocage/rGO as efficient electrocatalysts for water oxidation. <i>Electrochimica Acta</i> , <b>2018</b> , 280, 266-277	6.7	4
309	Low energy electron irradiation of carbon thin films. <b>2018</b> , 5, 055607		
308	Three-Dimensional Graphene-Carbon Nanotube-Ni Hierarchical Architecture as a Polysulfide Trap for Lithium-Sulfur Batteries. <b>2018</b> , 10, 20627-20634		56
307	Graphene oxide: Follow the oxidation mechanism and its application in water treatment. <b>2018</b> , 265, 226-237		24
306	A DFT study of Li adsorption on surface of Si clusters anchored N-doped defective graphene composite. <b>2018</b> , 457, 789-796		13
305	Simultaneously Exfoliated Boron-Doped Graphene Sheets To Encapsulate Sulfur for Applications in LithiumSulfur Batteries. <b>2018</b> , 6, 9661-9670		47
304	Green and facile synthesis of few-layer graphene via liquid exfoliation process for Lithium-ion batteries. <b>2018</b> , 8, 9766		24
303	A facile synthesis of sandwich-structured SnS2@reduced graphene oxide with high performance for lithium-ion battery anode. <b>2018</b> , 765, 1061-1071		32
302	Progress in polymer-derived functional silicon-based ceramic composites for biomedical and engineering applications. <b>2018</b> , 5, 062003		16
301	Effect of pH on the Reduction of Graphene Oxide on its Structure and Oxygen Reduction Capabilities in the Alkaline Media. <b>2018</b> , 30, 1938-1945		2
300	Three-dimensional MoO2@few-layered MoS2 covered by S-doped graphene aerogel for enhanced lithium ion storage. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 619-627	6.7	34

299	Advanced Nanomaterials for Green Energy: Current Status and Future Perspectives. <b>2018</b> , 457-472		8
298	Al <sub>2</sub> O <sub>3</sub> /reduced graphene oxide double-layer radiative coating for efficient heat dissipation. <b>2018</b> , 157, 130-140		16
297	Graphene-assisted photothermal effect on promoting catalytic activity of layered MnO <sub>2</sub> for gaseous formaldehyde oxidation. <b>2018</b> , 239, 77-85		85
296	Aging process analysis of LiNi <sub>0.88</sub> Co <sub>0.09</sub> Al <sub>0.03</sub> O <sub>2</sub> /graphite/SiO <sub>x</sub> pouch cell. <i>Electrochimica Acta</i> , <b>2018</b> , 286, 219-230	6.7	5
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294	The Importance of Nanostructured Materials for Energy Storage/Conversion. <b>2018</b> , 768-792		4
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292	Synthesis of K-doped g-C <sub>3</sub> N <sub>4</sub> /carbon microsphere@graphene composite with high surface area for enhanced adsorption and visible photocatalytic degradation of tetracycline. <b>2018</b> , 91, 609-622		25
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286	Preparation of 2D material dispersions and their applications. <b>2018</b> , 47, 6224-6266		291
285	Rational Design of a Dual-Function Hybrid Cathode Substrate for Lithium/Sulfur Batteries. <b>2018</b> , 8, 1801014		77
284	Nanomaterials for Electrical Energy Storage. <b>2019</b> , 165-206		10
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282	In-Situ Synthesis of Tetraphenylporphyrin/Tungsten (VI) Oxide/Reduced Graphene Oxide (TPP/WO <sub>3</sub> /RGO) Nanocomposite for Visible Light Photocatalytic Degradation of Acid Blue 25. <b>2019</b> , 4, 8379-8389		14

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280	Pristine graphene for advanced electrochemical energy applications. <b>2019</b> , 437, 226899	20
279	Three-dimensional hierarchical porous MnCo <sub>2</sub> O <sub>4</sub> @MnO <sub>2</sub> network towards highly reversible lithium storage by unique structure. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122207	14.7 20
278	Rational design of NiCo <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composite as practical anode of lithium-ion batteries with outstanding electrochemical performance from multiple aspects. <b>2019</b> , 805, 522-530	17
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276	Electrical Energy Storage Technologies and the Application Potential in Power System Operation: A Mini Review. <b>2019</b> ,	1
275	Conversion pseudocapacitance-contributing and robust hetero-nanostructural perovskite KCo <sub>0.54</sub> Mn <sub>0.46</sub> F <sub>3</sub> nanocrystals anchored on graphene nanosheet anodes for advanced lithium-ion capacitors, batteries and their hybrids. <b>2019</b> , 7, 18257-18266	28
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271	Nanostructured Anode Materials for Batteries (Lithium Ion, Ni-MH, Lead-Acid, and Thermal Batteries). <b>2019</b> , 145-229	1
270	Graphene and Graphene-Based Hybrid Composites for Advanced Rechargeable Battery Electrodes. <b>2019</b> , 147-196	
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267	Graphene/Metal Oxide Composite as Anode Material in Li-Ion Batteries. <b>2019</b> , 323-352	
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263	Recent Progress of Graphene as Cathode materials in Lithium Ion Batteries. <b>2019</b> , 300, 042039	6
262	Using Different Ions to Tune Graphene Stack Structures from Sheet- to Onion-Like During Plasma Exfoliation, with Supercapacitor Applications. <b>2019</b> , 14, 141	10
261	Real-time monitoring of stress development during electrochemical cycling of electrode materials for Li-ion batteries: overview and perspectives. <b>2019</b> , 7, 23679-23726	31
260	Graphene-based sensors of NO <sub>2</sub> , H <sub>2</sub> , acetone, and other gases/vapors: State of the art and realistic outlook. <b>2019</b> ,	
259	Daptomycin and AgNP co-loaded rGO nanocomposites for specific treatment of Gram-positive bacterial infection in vitro and in vivo. <b>2019</b> , 7, 5097-5111	15
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257	Ion assisted anchoring Sn nanoparticles on nitrogen-doped graphene as an anode for lithium ion batteries. <b>2019</b> , 44, 24913-24921	6
256	Graphene oxide-facilitated uranium transport and release in saturated medium: Effect of ionic strength and medium structure. <b>2019</b> , 247, 668-677	15
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254	Preparation of reduced graphene oxide electrodes treated by electron beam irradiation and their electrochemical behaviors. <b>2019</b> , 45, 2715-2726	6
253	Yolk-shell-structured microspheres composed of N-doped-carbon-coated NiMoO hollow nanospheres as superior performance anode materials for lithium-ion batteries. <b>2019</b> , 11, 631-638	33
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250	Synthesis and Characterization of Chemically Derived Graphene Oxide from Graphite. <b>2019</b> , 85-94	1
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248	Beyond imaging: Applications of atomic force microscopy for the study of Lithium-ion batteries. <b>2019</b> , 204, 34-48	20
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245	Facile synthesis of reduced graphene oxide by modified Hummer's method as anode material for Li-, Na- and K-ion secondary batteries. <b>2019</b> , 6, 181978	24
244	Self-assembled free-standing graphene oxide hybrid films modified by silane functionalized TiO <sub>2</sub> nanotubes to increase their final Young's modulus. <b>2019</b> , 231, 114-120	2
243	Highly improved performances of LiMn <sub>0.7</sub> Fe <sub>0.3</sub> PO <sub>4</sub> cathode with in situ electrochemically reduced graphene oxide. <b>2019</b> , 793, 627-634	11
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241	MnO anchored reduced graphene oxide nanocomposite for high energy applications of Li-ion batteries: The insight of charge-discharge process. <b>2019</b> , 45, 14829-14841	13
240	Ultrathin $\gamma$ -MnO <sub>2</sub> nanosheets as cathode for aqueous rechargeable zinc ion battery. <i>Electrochimica Acta</i> , <b>2019</b> , 304, 370-377	6.7 107
239	Adsorption and migration of alkali metals (Li, Na, and K) on pristine and defective graphene surfaces. <b>2019</b> , 11, 5274-5284	80
238	Synergistic impact of graphene and carbon nanotubes on waste paper for hybrid nanocomposite substrates. <b>2019</b> , 26, 3935-3954	7
237	Graphene in Lithium-Ion/Lithium-Sulfur Batteries. <b>2019</b> , 399-449	
236	A comparative study of cellulose derived structured carbons on the electrochemical behavior of lithium metal-based batteries. <b>2019</b> , 19, 179-185	24
235	. <b>2019</b> ,	2
234	Sustainable Engineering. <b>2019</b> ,	1
233	Antibacterial and anticorrosive properties of CuZnO@RGO waterborne polyurethane coating in circulating cooling water. <b>2019</b> , 26, 9027-9040	18
232	Exfoliated graphene nanosheets as high-power anodes for lithium-ion batteries. <b>2019</b> , 29, 81-87	8
231	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. <b>2019</b> , 51-104	11
230	2D materials for 1D electrochemical energy storage devices. <b>2019</b> , 19, 102-123	49
229	Bridging the academic and industrial metrics for next-generation practical batteries. <b>2019</b> , 14, 200-207	255
228	Investigation of graphene effect on the anti-corrosion behaviour of polyurethane coatings in sea-water. <b>2019</b> , 66, 853-860	2



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226	Applicability of Goethite/Reduced Graphene Oxide Nanocomposites to Remove Lead from Wastewater. <b>2019</b> , 9,	3
225	BC <sub>2</sub> N/Graphene Heterostructure as a Promising Anode Material for Rechargeable Li-Ion Batteries by Density Functional Calculations. <b>2019</b> , 123, 30809-30818	11
224	Inclusion of graphene on low-density polyethylene composite properties. <b>2019</b> , 23, 218-228	2
223	Synergistic effect of supercritical CO and organic solvent on exfoliation of graphene: experiment and atomistic simulation studies. <b>2019</b> , 21, 22149-22157	8
222	Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanosheets embedded in three-dimensional amorphous carbon for superior-rate battery applications. <b>2019</b> , 771, 755-761	12
221	Contrastive removal of oxytetracycline and chlortetracycline from aqueous solution on Al-MOF/GO granules. <b>2019</b> , 26, 3685-3696	20
220	Biosynthesis and characterization of graphene by using non-toxic reducing agent from Allium Cepa extract: Anti-bacterial properties. <b>2019</b> , 126, 151-158	30
219	Binder-free multilayered SnO <sub>2</sub> /graphene on Ni foam as a high-performance lithium ion batteries anode. <b>2019</b> , 45, 6931-6936	17
218	Porous graphene prepared from anthracite as high performance anode materials for lithium-ion battery applications. <b>2019</b> , 779, 202-211	53
217	High acetic acid sensing performance of Mg-doped ZnO/rGO nanocomposites. <b>2019</b> , 45, 7034-7043	24
216	Two-dimensional materials for lithium/sodium-ion capacitors. <b>2019</b> , 11, 30-45	63
215	Synthesis and characterization of CuZnO@GO nanocomposites and their enhanced antibacterial activity with visible light. <b>2019</b> , 89, 672-684	9
214	Graphene oxide wrapped copper-benzene-1,3,5-tricarboxylate metal organic framework as efficient absorbent for gaseous toluene under ambient conditions. <b>2019</b> , 26, 2477-2491	12
213	Synthesis and sustainable assessment of thiol-functionalization of magnetic graphene oxide and superparamagnetic Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> for Hg(II) removal from aqueous solution and petrochemical wastewater. <b>2019</b> , 95, 78-93	26
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210	Self-organization of ultra-thin uranium film. <b>2019</b> , 383, 477-481	

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208	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. <i>Electrochimica Acta</i> , <b>2019</b> , 294, 413-422	6.7	23
207	Antibacterial properties of chitosan chloride-graphene oxide composites modified quartz sand filter media in water treatment. <b>2019</b> , 121, 760-773		33
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202	Removal of nitrophenols from water using cellulose derived nitrogen doped graphitic carbon material containing titanium dioxide. <b>2019</b> , 37, 444-452		7
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195	Fabrication of graphene/MoS <sub>2</sub> alternately stacked structure for enhanced lithium storage. <b>2020</b> , 239, 121987		8
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