Cheng-Meng Chen

List of Publications by Year in Descending Order

199 papers	12,390 citations	51 h-index	107 g-index
210 ext. papers	14,537 ext. citations	8.9 avg, IF	6.6 L-index

#	Paper	IF	Citations
199	Uncovering electrocatalytic conversion mechanisms from Li2S2 to Li2S: Generalization of computational hydrogen electrode. *Energy Storage Materials*, **2022**, 47, 327-327	19.4	0
198	The effect of removing the native passivation film on the electrochemical performance of lithium metal electrodes. *Journal of Power Sources*, **2022**, 520, 230817	8.9	2
197	Insights into the thermochemical evolution of maleic anhydride-initiated esterified starch to construct hard carbon microspheres for Lithium-ion batteries. *Journal of Energy Chemistry*, **2022**, 66, 448-458	12	10
196	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries.. *Angewandte Chemie - International Edition*, **2022**,	16.4	12
195	Full-Range Redox Mediation on Sulfur Redox Kinetics for High-Performance Lithium-Sulfur Batteries. *Batteries and Supercaps*, **2022**, 5,	5.6	2
194	Biochar Aerogel Decorated with Thiophene S Manipulated 5-membered Rings Boosts Nitrogen Fixation. *Applied Catalysis B: Environmental*, **2022**, 121425	21.8	0
193	Chemical co-activated modified small mesoporous carbon derived from nature anthracite toward enhanced supercapacitive behaviors. *Journal of Electroanalytical Chemistry*, **2022**, 116417	4.1	
192	Selenite capture by MIL-101 (Fe) through FeOSe bonds at free coordination Fe sites. *Journal of Hazardous Materials*, **2021**, 424, 127715	12.8	1
191	Semi-Immobilized Molecular Electrocatalysts for High-Performance Lithium-Sulfur Batteries. *Journal of the American Chemical Society*, **2021**, 143, 19865-19872	16.4	33
190	A review of three-dimensional graphene networks for thermal management and electromagnetic protection. *New Carbon Materials*, **2021**, 36, 851-868	4.4	3
189	Atomic Design and Fine-Tuning of Subnanometric Pt Catalysts to Tame Hydrogen Generation. *ACS Catalysis*, **2021**, 11, 4146-4156	13.1	12
188	Crystalline-amorphous Ni3P@Nix(POy)z core□shell heterostructures as corrosion-resistant and high-efficiency microwave absorbents. *Applied Surface Science*, **2021**, 542, 148608	6.7	2
187	Ultra-high temperature graphitization of three-dimensional large-sized graphene aerogel for the encapsulation of phase change materials. *Composites Part A: Applied Science and Manufacturing*, **2021**, 145, 106391	8.4	11
186	Pre-oxidation of lignin precursors for hard carbon anode with boosted lithium-ion storage capacity. *Carbon*, **2021**, 178, 243-255	10.4	11
185	Dual-functional graphene/carbon nanotubes thick film: Bidirectional thermal dissipation and electromagnetic shielding. *Carbon*, **2021**, 171, 329-340	10.4	20
184	Bamboo-like N-doped carbon tubes encapsulated CoNi nanospheres towards efficient and anticorrosive microwave absorbents. *Carbon*, **2021**, 171, 142-153	10.4	30
183	Free-standing, anti-corrosion, super flexible graphene oxide/silver nanowire thin films for ultra-wideband electromagnetic interference shielding. *Journal of Materials Chemistry A*, **2021**, 9, 1180-1191	13	19

182	Removal of azo dye from aqueous solution by a low-cost activated carbon prepared from coal: adsorption kinetics, isotherms study, and DFT simulation. *Environmental Science and Pollution Research*, **2021**, 28, 10234-10247	5.1	6
181	Combined DFT and experiment: Stabilizing the electrochemical interfaces via boron Lewis acids. *Journal of Energy Chemistry*, **2021**, 59, 100-107	12	2
180	Redox mediator assists electron transfer in lithium□sulfur batteries with sulfurized polyacrylonitrile cathodes. *EcoMat*, **2021**, 3, e12066	9.4	27
179	Titanium□xo cluster reinforced gel polymer electrolyte enabling lithium□sulfur batteries with high gravimetric energy densities. *Energy and Environmental Science*, **2021**, 14, 975-985	35.4	17
178	Self-standing hard carbon anode derived from hyper-linked nanocellulose with high cycling stability for lithium-ion batteries. *EcoMat*, **2021**, 3, e12091	9.4	19
177	New Insights into the Mechanism of LiDFBOP for Improving the Low-Temperature Performance the Rational Design of an Interphase on a Graphite Anode. *ACS Applied Materials & Interfaces*, **2021**, 13, 40042-40052	9.5	8
176	Hard Carbon Anodes for Next-Generation Li-Ion Batteries: Review and Perspective. *Advanced Energy Materials*, **2021**, 11, 2101650	21.8	35
175	Self-standing graphitized hybrid Nanocarbon electrodes towards high-frequency supercapacitors. *Carbon*, **2021**, 185, 630-630	10.4	7
174	Dual-functional 3D multi-wall carbon nanotubes/graphene/silicone rubber elastomer: Thermal management and electromagnetic interference shielding. *Carbon*, **2021**, 183, 216-224	10.4	13
173	A one-step graphene induction strategy enables in-situ controllable growth of silver nanowires for electromagnetic interference shielding. *Carbon*, **2021**, 183, 809-819	10.4	2
172	SiC whiskers nucleated on rGO and its potential role in thermal conductivity and electronic insulation. *Chemical Engineering Journal*, **2021**, 423, 130181	14.7	10
171	A DFT study of the effect of stacking on the quantum capacitance of bilayer graphene materials. *New Carbon Materials*, **2021**, 36, 1062-1070	4.4	2
170	Constructing NiP/NiP Heterostructures to Boost Interfacial Polarization for Enhanced Microwave Absorption Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 52208-52220	9.5	41
169	CoP/RGO-Pd Hybrids with Heterointerfaces as Highly Active Catalysts for Ethanol Electrooxidation. *ACS Applied Materials & Interfaces*, **2020**, 12, 28903-28914	9.5	8
168	Structure evolution of oxygen removal from porous carbon for optimizing supercapacitor performance. *Journal of Energy Chemistry*, **2020**, 51, 396-404	12	28
167	In-situ conversion of Ni2P/rGO from heterogeneous self-assembled NiO/rGO precursor with boosted pseudocapacitive performance. *Chinese Chemical Letters*, **2020**, 31, 1392-1397	8.1	6
166	Cu2CoGeS4 nanocrystals for high performance aqueous polysulfide/iodide redox flow batteries: enhanced selectively towards the electrocatalytic conversion of polysulfides. *Sustainable Energy and Fuels*, **2020**, 4, 2892-2899	5.8	7
165	Nitrogen and Sulfur Vacancies in Carbon Shell to Tune Charge Distribution of Co6Ni3S8 Core and Boost Sodium Storage. *Advanced Energy Materials*, **2020**, 10, 1904147	21.8	47

164	A novel hafnium-graphite oxide catalyst for the Meerwein-Ponndorf-Verley reaction and the activation effect of the solvent.. *RSC Advances*, **2020**, 10, 9985-9995	3.7	7
163	Effect of pore structure and doping species on charge storage mechanisms in porous carbon-based supercapacitors. *Materials Chemistry Frontiers*, **2020**, 4, 2610-2634	7.8	43
162	5-Hydroxymethylfurfural oxidation to Maleic acid by O2 over graphene oxide supported vanadium: Solvent effects and reaction mechanism. *Chemical Engineering Journal*, **2020**, 388, 124187	14.7	11
161	Towards optimized Li-ion storage performance: Insight on the oxygen species evolution of hard carbon by H2 reduction. *Electrochimica Acta*, **2020**, 337, 135736	6.7	5
160	Construction of C-Si heterojunction interface in SiC whisker/reduced graphene oxide aerogels for improving microwave absorption. *Carbon*, **2020**, 164, 59-68	10.4	44
159	Selective oxidative esterification of alcohols over Au-Pd/graphene. *Molecular Catalysis*, **2020**, 484, 110687	3.3	4
158	Ultrathin nickel phosphide nanosheet aerogel electrocatalysts derived from Ni-alginate for hydrogen evolution reaction. *Journal of Alloys and Compounds*, **2020**, 817, 152727	5.7	5
157	One-pot ball-milling preparation of graphene/carbon black aqueous inks for highly conductive and flexible printed electronics. *Science China Materials*, **2020**, 63, 392-402	7.1	11
156	3D graphene/ carbon nanotubes/ polydimethylsiloxane composites as high-performance electromagnetic shielding material in X-band. *Composites Part A: Applied Science and Manufacturing*, **2020**, 129, 105712	8.4	35
155	Critical Role of Surface Defects in the Controllable Deposition of LiS on Graphene: From Molecule to Crystallite. *ACS Applied Materials & Interfaces*, **2020**, 12, 53435-53445	9.5	4
154	Investigation on Solutal Marangoni Convection around a Bubble under Different Gravities. *Microgravity Science and Technology*, **2020**, 32, 857-871	1.6	2
153	Activated Carbon Based Supercapacitors with a Reduced Graphene Oxide Additive: Preparation and Properties. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4073-4083	1.3	3
152	Genuine Active Species Generated from Fe N Nanotube by Synergistic CoNi Doping for Boosted Oxygen Evolution Catalysis. *Small*, **2020**, 16, e2003824	11	10
151	New insights into Li2S2/Li2S adsorption on the graphene bearing single vacancy: A DFT study. *Applied Surface Science*, **2020**, 503, 144446	6.7	21
150	Preparation of SiC whiskers using graphene and rice husk ash and its photocatalytic property. *Journal of Alloys and Compounds*, **2020**, 833, 155072	5.7	17
149	Controllable synthesis of CoN3 catalysts derived from Co/Zn-ZIF-67 for electrocatalytic oxygen reduction in acidic electrolytes. *Journal of Materials Chemistry A*, **2019**, 7, 21884-21891	13	40
148	Reduced graphene oxide supported Ni-Ce catalysts for CO2 methanation: The support and ceria promotion effects. *Journal of CO2 Utilization*, **2019**, 34, 676-687	7.6	45
147	Air cathode of zinc-air batteries: a highly efficient and durable aerogel catalyst for oxygen reduction. *Nanoscale*, **2019**, 11, 826-832	7.7	36

146	Seaweed-derived synthesis of Na3.12Fe2.44(P2O7)2/r-GO aerogels as air stable cathode materials for sodium-ion batteries. *Chemical Engineering Journal*, **2019**, 365, 325-333	14.7	11
145	Biomass-derived porous carbon materials with different dimensions for supercapacitor electrodes: a review. *Journal of Materials Chemistry A*, **2019**, 7, 16028-16045	13	400
144	Graphene/Carbon Black Co-modified Separator as Polysulfides Trapper for Li-S Batteries. *ChemistrySelect*, **2019**, 4, 6026-6034	1.8	4
143	Phosphorus-modified porous carbon aerogel microspheres as high volumetric energy density electrode for supercapacitor. *Electrochimica Acta*, **2019**, 318, 151-160	6.7	29
142	The Inhibition Mechanism of Lithium Dendrite on Nitrogen-Doped Defective Graphite: The First Principles Studies. *Journal of the Electrochemical Society*, **2019**, 166, A1603-A1610	3.9	1
141	3D Sulfur and Nitrogen Codoped Carbon Nanofiber Aerogels with Optimized Electronic Structure and Enlarged Interlayer Spacing Boost Potassium-Ion Storage. *Small*, **2019**, 15, e1900816	11	71
140	3D Thermally Cross-Linked Graphene Aerogel Enhanced Silicone Rubber Elastomer as Thermal Interface Material. *Advanced Materials Interfaces*, **2019**, 6, 1900147	4.6	26
139	Fe-alginate biomass-derived FeS/3D interconnected carbon nanofiber aerogels as anodes for high performance sodium-ion batteries. *Journal of Alloys and Compounds*, **2019**, 795, 54-59	5.7	12
138	Tuning the physico-chemical properties of BiOBr via solvent adjustment: towards an efficient photocatalyst for water treatment. *CrystEngComm*, **2019**, 21, 1750-1757	3.3	21
137	From Starch to Carbon Materials: Insight into the Cross-Linking Reaction and Its Influence on the Carbonization Process. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14796-14804	8.3	21
136	High Yield Silicon Carbide Whiskers from Rice Husk Ash and Graphene: Growth Method and Thermodynamics. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19027-19033	8.3	16
135	Mechanistic insight into high-efficiency sodium storage based on N/O/P-functionalized ultrathin carbon nanosheet. *Journal of Power Sources*, **2019**, 442, 227184	8.9	16
134	Structural Evolution of Phosphorus Species on Graphene with a Stabilized Electrochemical Interface. *ACS Applied Materials & Interfaces*, **2019**, 11, 11421-11430	9.5	60
133	Computational Insights into the Interaction between Li2S/Li2S2 and Heteroatom-Doped Graphene Materials. *ChemistrySelect*, **2019**, 4, 12612-12621	1.8	2
132	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. *Microporous and Mesoporous Materials*, **2019**, 279, 293-315	5.3	39
131	Intercalation structure of vanadium nitride nanoparticles growing on graphene surface toward high negative active material for supercapacitor utilization. *Journal of Alloys and Compounds*, **2019**, 781, 1054-1058	5.7	32
130	Synthesis of polyoxymethylene dimethyl ethers from dimethoxymethane and trioxymethylene over graphene oxide: Probing the active species and relating the catalyst structure to performance. *Applied Catalysis A: General*, **2019**, 570, 15-22	5.1	7
129	Ultrafine FeSe nanoparticles embedded into 3D carbon nanofiber aerogels with FeSe/Carbon interface for efficient and long-life sodium storage. *Carbon*, **2019**, 143, 106-115	10.4	52

128	Single-crystalline (FexNi1-x)2P nanosheets with dominant {011□1□} facets: Efficient electrocatalysts for hydrogen evolution reaction at all pH values. *Nano Energy*, **2019**, 56, 813-822	17.1	51
127	First-Principles Studies of Li Nucleation on Double-Layered Defective Graphene. *ChemElectroChem*, **2019**, 6, 810-817	4.3	5
126	Porous CoP nanostructure electrocatalyst derived from DUT-58 for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2018**, 43, 13904-13910	6.7	26
125	Nanoscale engineering MoP/Fe2P/RGO toward efficient electrocatalyst for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2018**, 43, 13939-13945	6.7	21
124	A facile method for the synthesis of graphene-like 2D metal oxides and their excellent catalytic application in the hydrogenation of nitroarenes. *Journal of Materials Chemistry A*, **2018**, 6, 9948-9961	13	22
123	Highly Porous FeS/Carbon Fibers Derived from Fe-Carrageenan Biomass: High-capacity and Durable Anodes for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 17175-17182	9.5	86
122	Generating lithium vacancies through delithiation of Li(NixCoyMnz)O2 towards bifunctional electrocatalysts for rechargeable zinc-air batteries. *Energy Storage Materials*, **2018**, 15, 202-208	19.4	18
121	Nanoconfinement of red phosphorus nanoparticles in seaweed-derived hierarchical porous carbonaceous fibers for enhanced lithium ion storage. *Chemical Engineering Journal*, **2018**, 345, 604-610	14.7	41
120	Influence of phosphorus doping on surface chemistry and capacitive behaviors of porous carbon electrode. *Electrochimica Acta*, **2018**, 266, 420-430	6.7	63
119	□Ni(OH)2 Nanosheet Arrays Grown on Biomass-Derived Hollow Carbon Microtubes for High-Performance Asymmetric Supercapacitors. *ChemElectroChem*, **2018**, 5, 1279-1287	4.3	37
118	Structural evolution of carbon aerogel microspheres by thermal treatment for high□power supercapacitors. *Journal of Energy Chemistry*, **2018**, 27, 439-446	12	10
117	Architecture of Co-layered double hydroxide nanocages/graphene composite electrode with high electrochemical performance for supercapacitor. *Journal of Energy Chemistry*, **2018**, 27, 507-512	12	31
116	Electronic Structure Tuning in NiFeN/r-GO Aerogel toward Bifunctional Electrocatalyst for Overall Water Splitting. *ACS Nano*, **2018**, 12, 245-253	16.7	347
115	Experimental investigation of the heat transfer performance of an oscillating heat pipe with graphene nanofluids. *Powder Technology*, **2018**, 332, 371-380	5.2	31
114	Boosting hydrogen evolution via optimized hydrogen adsorption at the interface of CoP3 and Ni2P. *Journal of Materials Chemistry A*, **2018**, 6, 5560-5565	13	76
113	Alginate/r-GO assisted synthesis of ultrathin LiFePO4 nanosheets with oriented (0 1 0) facet and ultralow antisite defect. *Chemical Engineering Journal*, **2018**, 351, 340-347	14.7	23
112	Synthesis of 3D N, S Dual-Doped Porous Carbons with Ultrahigh Surface Areas for Highly Efficient Oxygen Reduction Reactions. *ChemElectroChem*, **2018**, 5, 3506-3513	4.3	4
111	A method for producing conductive graphene biopolymer nanofibrous fabrics by exploitation of an ionic liquid dispersant in electrospinning. *Carbon*, **2018**, 140, 148-156	10.4	11

110	DUT-58 (Co) Derived Synthesis of Co Clusters as Efficient Oxygen Reduction Electrocatalyst for Zinc-Air Battery. *Global Challenges*, **2018**, 2, 1700086	4.3	12
109	Porous NiCo2O4 nanowires supported on carbon cloth for flexible asymmetric supercapacitor with high energy density. *Journal of Energy Chemistry*, **2018**, 27, 195-202	12	36
108	Hollow carbon microtubes from kapok fiber: structural evolution and energy storage performance. *Sustainable Energy and Fuels*, **2018**, 2, 455-465	5.8	41
107	Self-templating synthesis nitrogen and sulfur co-doped hierarchical porous carbons derived from crab shells as a high-performance metal-free oxygen electroreduction catalyst. *Materials Today Energy*, **2018**, 10, 388-395	7	9
106	Theoretical Study on the Quantum Capacitance Origin of Graphene Cathodes in Lithium Ion Capacitors. *Catalysts*, **2018**, 8, 444	4	18
105	Boosting Sodium-Ion Storage by Encapsulating NiS (CoS) Hollow Nanoparticles into Carbonaceous Fibers. *ACS Applied Materials & Interfaces*, **2018**, 10, 40531-40539	9.5	48
104	Sub-1.5 nm Ultrathin CoP Nanosheet Aerogel: Efficient Electrocatalyst for Hydrogen Evolution Reaction at All pH Values. *Small*, **2018**, 14, e1802824	11	70
103	Turning gelidium amansii residue into nitrogen-doped carbon nanofiber aerogel for enhanced multiple energy storage. *Carbon*, **2018**, 137, 31-40	10.4	35
102	Correlation between Microstructure Evolution of a Well-Defined Cubic Palladium Catalyst and Selectivity during Acetylene Hydrogenation. *ChemCatChem*, **2017**, 9, 3435-3439	5.2	9
101	Nitrogen-functionalized reduced graphene oxide as carbocatalysts with enhanced activity for polyaromatic hydrocarbon hydrogenation. *Catalysis Science and Technology*, **2017**, 7, 1217-1226	5.5	24
100	Nanoscale engineering of nitrogen-doped carbon nanofiber aerogels for enhanced lithium ion storage. *Journal of Materials Chemistry A*, **2017**, 5, 8247-8254	13	101
99	Probing the intrinsic active sites of modified graphene oxide for aerobic benzylic alcohol oxidation. *Applied Catalysis B: Environmental*, **2017**, 211, 89-97	21.8	34
98	2D Layered □Fe2O3/rGO Flexible Electrode Prepared through Colloidal Electrostatic Self-Assembly. *ChemElectroChem*, **2017**, 4, 1990-1996	4.3	19
97	Highly stable supercapacitors with MOF-derived Co9S8/carbon electrodes for high rate electrochemical energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 12453-12461	13	135
96	Tuning the Shell Number of Multishelled Metal Oxide Hollow Fibers for Optimized Lithium-Ion Storage. *ACS Nano*, **2017**, 11, 6186-6193	16.7	114
95	Layered NiCo2O4/reduced graphene oxide composite as an advanced electrode for supercapacitor. *Energy Storage Materials*, **2017**, 8, 59-67	19.4	88
94	Facile synthesis of self-assembled ultrathin □FeOOH nanorod/graphene oxide composites for supercapacitors. *Journal of Colloid and Interface Science*, **2017**, 504, 593-602	9.3	38
93	Influence of co-solvent hydroxyl group number on properties of water-based conductive carbon pastes. *Particuology*, **2017**, 33, 35-41	2.8	8

92	Regulating pore structure of carbon aerogels by graphene oxide as shape-directing agent. *Microporous and Mesoporous Materials*, **2017**, 240, 145-148	5.3	12
91	Reduced graphene oxide: a metal-free catalyst for aerobic oxidative desulfurization. *Green Chemistry*, **2017**, 19, 1175-1181	10	99
90	Porous TiO Nanotubes with Spatially Separated Platinum and CoO Cocatalysts Produced by Atomic Layer Deposition for Photocatalytic Hydrogen Production. *Angewandte Chemie - International Edition*, **2017**, 56, 816-820	16.4	245
89	Enhancing Oxygen Reduction Activity by Exposing (111) Facets of CoFe2O4 Octahedron on Graphene. *ChemistrySelect*, **2017**, 2, 9878-9881	1.8	3
88	Effect of Aging Time on the Characteristics and Photocatalysis of Zn2+-Doped CTAB@BiOCl. *Nano*, **2017**, 12, 1750106	1.1	1
87	Controllable decoration of palladium sub-nanoclusters on reduced graphene oxide with superior catalytic performance in selective oxidation of alcohols. *Catalysis Science and Technology*, **2017**, 7, 5650-5661	5.5	10
86	Boosting the Specific Surface Area of Hierarchical Porous Carbon Aerogel through the Multiple Roles of the Catalyst for High-Performance Supercapacitors. *ChemElectroChem*, **2017**, 4, 3119-3125	4.3	13
85	Micro-structure evolution and control of lithium-ion battery electrode laminate. *Journal of Energy Storage*, **2017**, 14, 82-93	7.8	14
84	Effect of annealing temperature on the mechanical properties of flexible graphene films. *New Carbon Materials*, **2017**, 32, 221-226	4.4	6
83	Accessible 3D Integrative Paper Electrode Shapes: All-Carbon Dual-Ion Batteries with Optimum Packaging Performances. *ChemElectroChem*, **2017**, 4, 3238-3243	4.3	18
82	Flexible carbon nanofiber mats with improved graphitic structure as scaffolds for efficient all-solid-state supercapacitor. *Electrochimica Acta*, **2017**, 247, 1060-1071	6.7	22
81	Preparation of nitrogen-doped graphene/activated carbon composite papers to enhance energy storage in supercapacitors. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	14
80	Toward Aerogel Electrodes of Superior Rate Performance in Supercapacitors through Engineered Hollow Nanoparticles of NiCoO. *Advanced Science*, **2017**, 4, 1700345	13.6	32
79	A sulfur host based on cobalt graphitic carbon nanocages for high performance lithium sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 24901-24908	13	67
78	Oxygenophilic ionic liquids promote the oxygen reduction reaction in Pt-free carbon electrocatalysts. *Materials Horizons*, **2017**, 4, 895-899	14.4	45
77	Free standing graphene/SiC films by in-situ carbothermal reaction as thermal shielding materials. *Materials and Design*, **2016**, 109, 227-232	8.1	5
76	Graphene enhanced low-density polyethylene by pretreatment and melt compounding. *RSC Advances*, **2016**, 6, 101492-101500	3.7	25
75	Prolifera-Green-Tide as Sustainable Source for Carbonaceous Aerogels with Hierarchical Pore to Achieve Multiple Energy Storage. *Advanced Functional Materials*, **2016**, 26, 8487-8495	15.6	143

74	Vanadium-oxo immobilized onto Schiff base modified graphene oxide for efficient catalytic oxidation of 5-hydroxymethylfurfural and furfural into maleic anhydride. *RSC Advances*, **2016**, 6, 101277-101282	3.7	24
73	Electrochemical stability of graphene cathode for high-voltage lithium ion capacitors. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 407-414	1.3	2
72	Oxygen Reduction Reaction on Graphene in an Electro-Fenton System: In Situ Generation of H2 O2 for the Oxidation of Organic Compounds. *ChemSusChem*, **2016**, 9, 1194-9	8.3	67
71	Rational Integration of Polypropylene/Graphene Oxide/Nafion as Ternary-Layered Separator to Retard the Shuttle of Polysulfides for Lithium-Sulfur Batteries. *Small*, **2016**, 12, 381-9	11	267
70	Graphene oxide aerogels constructed using large or small graphene oxide with different electrical, mechanical and adsorbent properties. *RSC Advances*, **2016**, 6, 9851-9856	3.7	9
69	Graphene oxide: an effective acid catalyst for the synthesis of polyoxymethylene dimethyl ethers from methanol and trioxymethylene. *Catalysis Science and Technology*, **2016**, 6, 993-997	5.5	47
68	Direct synthesis of 2,5-diformylfuran from fructose with graphene oxide as a bifunctional and metal-free catalyst. *Green Chemistry*, **2016**, 18, 2302-2307	10	63
67	Aerobic selective oxidation of 5-hydroxymethyl-furfural over nitrogen-doped graphene materials with 2,2,6,6-tetramethylpiperidin-oxyl as co-catalyst. *Catalysis Science and Technology*, **2016**, 6, 2377-2386	5.5	35
66	Three-dimensional paper-like graphene framework with highly orientated laminar structure as binder-free supercapacitor electrode. *Journal of Energy Chemistry*, **2016**, 25, 49-54	12	35
65	Nitrogen-doped hierarchical porous carbon derived from block copolymer for supercapacitor. *Energy Storage Materials*, **2016**, 3, 140-148	19.4	50
64	Binder-free graphene and manganese oxide coated carbon felt anode for high-performance microbial fuel cell. *Biosensors and Bioelectronics*, **2016**, 81, 32-38	11.8	112
63	Tuning the surface structure of supported PtNi(x) bimetallic electrocatalysts for the methanol electro-oxidation reaction. *Chemical Communications*, **2016**, 52, 3927-30	5.8	15
62	A high energy density asymmetric supercapacitor based on a CoNi-layered double hydroxide and activated carbon. *New Carbon Materials*, **2016**, 31, 37-45	4.4	20
61	Seaweed-Derived Route to Fe2O3 Hollow Nanoparticles/N-Doped Graphene Aerogels with High Lithium Ion Storage Performance. *ACS Applied Materials & Interfaces*, **2016**, 8, 7047-53	9.5	157
60	Synthesis of mesoporous carbon aerogels based on metal-containing ionic liquid and its application for electrochemical capacitors. *Journal of Solid State Electrochemistry*, **2016**, 20, 1813-1817	2.6	6
59	The nanostructure preservation of 3D porous graphene: New insights into the graphitization and surface chemistry of non-stacked double-layer templated graphene after high-temperature treatment. *Carbon*, **2016**, 103, 36-44	10.4	24
58	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. *Nano Letters*, **2016**, 16, 519-27	11.5	1055
57	Template-Directed Macroporous Bubble□Graphene Film for the Application in Supercapacitors. *Springer Theses*, **2016**, 111-121	0.1	

56	Literature Review and Research Background. *Springer Theses*, **2016**, 1-49	0.1	1
55	Structural Evolution of the Thermally Reduced Graphene NanosheetsDuring Annealing. *Springer Theses*, **2016**, 51-71	0.1	1
54	Hierarchical Amination of Graphene for Electrochemical Energy Storage. *Springer Theses*, **2016**, 73-96	0.1	
53	SnO2@Graphene Composite Electrodes for the Application in Electrochemical Energy Storage. *Springer Theses*, **2016**, 123-141	0.1	
52	Hierarchical porous carbon microtubes derived from willow catkins for supercapacitor applications. *Journal of Materials Chemistry A*, **2016**, 4, 1637-1646	13	308
51	Free-Standing Graphene Film with High Conductivity by Thermal Reduction of Self-assembled Graphene Oxide Film. *Springer Theses*, **2016**, 97-110	0.1	
50	Easy one-step synthesis of N-doped graphene for supercapacitors. *Energy Storage Materials*, **2016**, 2, 69-75	19.4	44
49	Scalable and Cost-Effective Synthesis of Highly Efficient Fe2N-Based Oxygen Reduction Catalyst Derived from Seaweed Biomass. *Small*, **2016**, 12, 1295-301	11	131
48	Sandwich electrode designed for high performance lithium-ion battery. *Nanoscale*, **2016**, 8, 9511-6	7.7	15
47	Creation of Ge-Nx-Cy Configures in Carbon Nanotubes: Origin of Enhanced Electrocatalytic Performance for Oxygen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 10383-91	9.5	18
46	Layered NiO/reduced graphene oxide composites by heterogeneous assembly with enhanced performance as high-performance asymmetric supercapacitor cathode. *RSC Advances*, **2016**, 6, 46548-46557	3.7	46
45	Suppressing Fe□i Antisite Defects in LiFePO4/Carbon Hybrid Microtube to Enhance the Lithium Ion Storage. *Advanced Energy Materials*, **2016**, 6, 1601549	21.8	82
44	A self-assembly strategy for fabricating highly stable silicon/reduced graphene oxide anodes for lithium-ion batteries. *New Journal of Chemistry*, **2016**, 40, 8961-8968	3.6	14
43	The fine control of porous pompon-like Mg-incorporated □Ni(OH)2 for enhanced supercapacities. *Functional Materials Letters*, **2016**, 09, 1650057	1.2	6
42	Reduction of graphene oxide in Li-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 18360-18364	13	26
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