Donghai Wang

List of Publications by Year in Descending Order

255 papers	19,333 citations	68 h-index	136 g-index
264 ext. papers	21,353 ext. citations	8.9 avg, IF	6.93 L-index

#	Paper	IF	Citations
255	Experimental and Technoeconomic Assessment of Monosaccharide and Furan Production under High Biomass Loading without Solid□Liquid Separation. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 1972-1982	8.3	2
254	An integrated deep eutectic solvent-ionic liquid-metal catalyst system for lignin and 5-hydroxymethylfurfural production from lignocellulosic biomass: Technoeconomic analysis.. *Bioresource Technology*, **2022**, 127277	11	1
253	Dual Protective Mechanism of AlPO4 Coating on High-Nickel Cathode Material for High Energy Density and Long Cycle Life Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2022**, 169, 050523	3.9	0
252	Two Nonnegligible Factors Influencing Lignocellulosic Biomass Valorization: Filtration Method after Pretreatment and Solid Loading during Enzymatic Hydrolysis. *Energy & Fuels*, **2021**, 35, 1546-1556	4.1	7
251	Organosulfide-Based Deep Eutectic Electrolyte for Lithium Batteries. *Angewandte Chemie*, **2021**, 133, 9969-9973	3.6	3
250	Online state estimation for a physics-based Lithium-Sulfur battery model. *Journal of Power Sources*, **2021**, 489, 229495	8.9	4
249	Organosulfide-Based Deep Eutectic Electrolyte for Lithium Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 9881-9885	16.4	15
248	Potential of Wheat Milling Byproducts to Produce Fermentable Sugars via Mild Ethanol□Alkaline Pretreatment. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3626-3632	8.3	2
247	Parameter Identification and Sensitivity Analysis for Zero-Dimensional Physics-Based Lithium-Sulfur Battery Models. *ASME Letters in Dynamic Systems and Control*, **2021**, 1,		1
246	Characterization of Four Chinese Bread Wheat Varieties over Five Years. *ACS Food Science & Technology*, **2021**, 1, 770-777		
245	Artificial dual solid-electrolyte interfaces based on in situ organothiol transformation in lithium sulfur battery. *Nature Communications*, **2021**, 12, 3031	17.4	45
244	Hempseed as a nutritious and healthy human food or animal feed source: a review. *International Journal of Food Science and Technology*, **2021**, 56, 530-543	3.8	12
243	Rapid determination of total phenolic content of whole wheat flour using near-infrared spectroscopy and chemometrics. *Food Chemistry*, **2021**, 344, 128633	8.5	11
242	Effect of ultrasonic vibration-assisted pelleting of biomass on biochar properties. *Journal of Cleaner Production*, **2021**, 279, 123900	10.3	3
241	A robust solid electrolyte interphase layer coated on polyethylene separator surface induced by Ge interlayer for stable Li-metal batteries. *Electrochimica Acta*, **2021**, 370, 137703	6.7	3
240	Proteins in dried distillersSgrains with solubles: A review of animal feed value and potential non-food uses. *JAOCS, Journal of the American Oil ChemistskSociety*, **2021**, 98, 957	1.8	2
239	Universal Peptide Hydrogel for Scalable Physiological Formation and Bioprinting of 3D Spheroids from Human Induced Pluripotent Stem Cells. *Advanced Functional Materials*, **2021**, 31, 2104046	15.6	3

238	Minimizing water consumption for sugar and lignin recovery via the integration of acid and alkali pretreated biomass and their mixed filtrate without post-washing. *Bioresource Technology*, **2021**, 337, 125389	11	6
237	Effects of post-washing on pretreated biomass and hydrolysis of the mixture of acetic acid and sodium hydroxide pretreated biomass and their mixed filtrate. *Bioresource Technology*, **2021**, 339, 125605	11	4
236	Confining Sulfur in Porous Carbon by Vapor Deposition to Achieve High-Performance Cathode for All-Solid-State Lithium–Sulfur Batteries. *ACS Energy Letters*, **2021**, 6, 413-418	20.1	6
235	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. *Microscopy and Microanalysis*, **2020**, 26, 2542-2544	0.5	
234	Low-temperature and high-rate-charging lithium metal batteries enabled by an electrochemically active monolayer-regulated interface. *Nature Energy*, **2020**, 5, 534-542	62.3	129
233	Retraction notice to "Boosting the fermentable sugar yield and concentration of corn stover by magnesium oxide pretreatment for ethanol production" [Bioresour. Technol. 269 (2018) 400-407]. *Bioresource Technology*, **2020**, 301, 122807	11	
232	Retraction notice to "Corn stover pretreatment by metal oxides for improving lignin removal and reducing sugar degradation and water usage" [Bioresour. Technol. 263 (2018) 232-241]. *Bioresource Technology*, **2020**, 299, 122663	11	
231	Retraction notice to "Enhancing delignification and subsequent enzymatic hydrolysis of corn stover by magnesium oxide-ethanol pretreatment" [Bioresour. Technol. 279 (2019) 124-131]. *Bioresource Technology*, **2020**, 302, 122839	11	
230	Retraction notice to "High-solids hydrolysis of corn stover to achieve high sugar yield and concentration through high xylan recovery from magnesium oxide-ethanol pretreatment" [Bioresour. Technol. 280 (2019) 352-359]. *Bioresource Technology*, **2020**, 302, 122838	11	1
229	Retraction notice to "A study on the association between biomass types and magnesium oxide pretreatment" [Bioresour. Technol. 293 (2019) 122035]. *Bioresource Technology*, **2020**, 301, 122818	11	
228	A new approach to both high safety and high performance of lithium-ion batteries. *Science Advances*, **2020**, 6, eaay7633	14.3	53
227	Multifunctional Li(Ni0.5Co0.2Mn0.3) O2-Si batteries with self-actuation and self-sensing. *Journal of Intelligent Material Systems and Structures*, **2020**, 31, 860-868	2.3	3
226	The Effect of Gasification Conditions on the Surface Properties of Biochar Produced in a Top-Lit Updraft Gasifier. *Applied Sciences (Switzerland)*, **2020**, 10, 688	2.6	9
225	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. *Nano Letters*, **2020**, 20, 2756-2762	11.5	14
224	Integrating bran starch hydrolysates with alkaline pretreated soft wheat bran to boost sugar concentration. *Bioresource Technology*, **2020**, 302, 122826	11	19
223	Retraction notice to "Boosting fermentable sugars by integrating magnesium oxide-treated corn stover and corn stover liquor without washing and detoxification" [Bioresour. Technol. 288 (2019) 121586]. *Bioresource Technology*, **2020**, 301, 122819	11	
222	Retraction notice to "Co-fermentation of magnesium oxide-treated corn stover and corn stover liquor for cellulosic ethanol production and techno-economic analysis" Bioresource Technology 294 (2019) 122143. *Bioresource Technology*, **2020**, 301, 122820	11	
221	High Ethanol Concentration (77 g/L) of Industrial Hemp Biomass Achieved Through Optimizing the Relationship between Ethanol Yield/Concentration and Solid Loading. *ACS Omega*, **2020**, 5, 21913-21921	3.9	9

220	Stable metal anodes enabled by a labile organic molecule bonded to a reduced graphene oxide aerogel. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30135-30141	11.5	6
219	Water-Soluble Sugars of Pedigreed Sorghum Mutant Stalks and Their Recovery after Pretreatment. *Applied Sciences (Switzerland)*, **2020**, 10, 5472	2.6	0
218	Conversion of liquid hot water, acid and alkali pretreated industrial hemp biomasses to bioethanol. *Bioresource Technology*, **2020**, 309, 123383	11	39
217	A study on the association between biomass types and magnesium oxide pretreatment. *Bioresource Technology*, **2019**, 293, 122035	11	2
216	Co-fermentation of magnesium oxide-treated corn stover and corn stover liquor for cellulosic ethanol production and techno-economic analysis. *Bioresource Technology*, **2019**, 294, 122143	11	
215	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. *ACS Energy Letters*, **2019**, 4, 2540-2546	20.1	19
214	Enhancing delignification and subsequent enzymatic hydrolysis of corn stover by magnesium oxide-ethanol pretreatment. *Bioresource Technology*, **2019**, 279, 124-131	11	9
213	Seed yield and oil quality as affected by Camelina cultivar and planting date. *Journal of Crop Improvement*, **2019**, 33, 202-222	1.4	14
212	The combination of intercalation and conversion reactions to improve the volumetric capacity of the cathode in Li–S batteries. *Journal of Materials Chemistry A*, **2019**, 7, 3618-3623	13	16
211	Electrokinetic Phenomena Enhanced Lithium-Ion Transport in Leaky Film for Stable Lithium Metal Anodes. *Advanced Energy Materials*, **2019**, 9, 1900704	21.8	51
210	Stable Li Metal Anode by a Hybrid Lithium Polysulfidophosphate/Polymer Cross-Linking Film. *ACS Energy Letters*, **2019**, 4, 1271-1278	20.1	71
209	Optimization of technical parameters for making temperature-increasing film from titanium dioxide and rice straw fiber. *AIP Advances*, **2019**, 9, 025033	1.5	
208	Polymer-inorganic solid-electrolyte interphase for stable lithium metal batteries under lean electrolyte conditions. *Nature Materials*, **2019**, 18, 384-389	27	367
207	A sandwich-type sulfur cathode based on multifunctional ceria hollow spheres for high-performance lithium–sulfur batteries. *Materials Chemistry Frontiers*, **2019**, 3, 1317-1322	7.8	15
206	Study on Mass Transfer Kinetics of Sugar Extraction from Sweet Sorghum Biomass via Diffusion Process and Ethanol Yield Using SSF. *Processes*, **2019**, 7, 137	2.9	3
205	Long-term Biomass and Potential Ethanol Yields of Annual and Perennial Biofuel Crops. *Agronomy Journal*, **2019**, 111, 74-83	2.2	14
204	Retrospective analysis for phase I statistical process control and process capability study using revised sample entropy. *Neural Computing and Applications*, **2019**, 31, 7415-7428	4.8	5
203	Predicting the content of camelina protein using FT-IR spectroscopy coupled with SVM model. *Cluster Computing*, **2019**, 22, 8401-8406	2.1	4

202	Boosting fermentable sugars by integrating magnesium oxide-treated corn stover and corn stover liquor without washing and detoxification. *Bioresource Technology*, **2019**, 288, 121586	11	3
201	Stable Li metal anode by a polyvinyl alcohol protection layer via modifying solid-electrolyte interphase layer. *Nano Energy*, **2019**, 64, 103893	17.1	56
200	Asymmetric Temperature Modulation for Extreme Fast Charging of Lithium-Ion Batteries. *Joule*, **2019**, 3, 3002-3019	27.8	122
199	Minimized Volume Expansion in Hierarchical Porous Silicon upon Lithiation. *ACS Applied Materials & Interfaces*, **2019**, 11, 13257-13263	9.5	31
198	High-solids hydrolysis of corn stover to achieve high sugar yield and concentration through high xylan recovery from magnesium oxide-ethanol pretreatment. *Bioresource Technology*, **2019**, 280, 352-359	11	6
197	Overview of Sorghum Industrial Utilization. *Agronomy*, **2019**, 463-476	0.8	4
196	Optimization of Microwave Coupled Hot Air Drying for Chinese Yam Using Response Surface Methodology. *Processes*, **2019**, 7, 745	2.9	8
195	Supremely elastic gel polymer electrolyte enables a reliable electrode structure for silicon-based anodes. *Nature Communications*, **2019**, 10, 5586	17.4	36
194	Optimization of Processing Parameters to Increase Thermal Conductivity of Rice Straw Fiber Film. *Applied Sciences (Switzerland)*, **2019**, 9, 4645	2.6	2
193	Synthesis and understanding of Na11Sn2PSe12 with enhanced ionic conductivity for all-solid-state Na-ion battery. *Energy Storage Materials*, **2019**, 17, 70-77	19.4	26
192	High-Solids Bio-Conversion of Maize Starch to Sugars and Ethanol. *Starch/Staerke*, **2019**, 71, 1800142	2.3	7
191	A quaternary sodium superionic conductor - Na10.8Sn1.9PS11.8. *Nano Energy*, **2018**, 47, 325-330	17.1	45
190	Self-Formed Hybrid Interphase Layer on Lithium Metal for High-Performance Lithium-Sulfur Batteries. *ACS Nano*, **2018**, 12, 1500-1507	16.7	114
189	Effect of irrigation on physicochemical properties and bioethanol yield of drought tolerant and conventional corn. *Irrigation Science*, **2018**, 36, 75-85	3.1	1
188	Corn stover pretreatment by metal oxides for improving lignin removal and reducing sugar degradation and water usage. *Bioresource Technology*, **2018**, 263, 232-241	11	26
187	Superior Performance of a Lithium–Sulfur Battery Enabled by a Dimethyl Trisulfide Containing Electrolyte. *Small Methods*, **2018**, 2, 1800038	12.8	28
186	High-solid pretreatment of corn stover using urea for enzymatic saccharification. *Bioresource Technology*, **2018**, 259, 83-90	11	19
185	Raspberry‐like monodispersity ZnO microspheres for photodegradation of rhodamine B. *Materials Research Bulletin*, **2018**, 99, 37-44	5.1	9

184	Toward Better Lithium–Sulfur Batteries: Functional Non-aqueous Liquid Electrolytes. *Electrochemical Energy Reviews*, **2018**, 1, 388-402	29.3	34
183	A Comprehensive Investigation on the Effects of Biomass Particle Size in Cellulosic Biofuel Production. *Journal of Energy Resources Technology, Transactions of the ASME*, **2018**, 140,	2.6	8
182	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li GeP S Solid Electrolyte Interface. *Angewandte Chemie - International Edition*, **2018**, 57, 13608-13612	16.4	97
181	Pyrolysis of Torrefied Biomass. *Trends in Biotechnology*, **2018**, 36, 1287-1298	15.1	60
180	Salt-Based Organic–Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li10GeP2S12 Solid Electrolyte Interface. *Angewandte Chemie*, **2018**, 130, 13796-13800	3.6	5
179	One-Step Hydrothermal Synthesis of Small TiO Porous Nanoparticles for Efficient Degradation of Organic Dyes. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 3185-3191	1.3	3
178	Polyanthraquinone/CNT nanocomposites as cathodes for rechargeable lithium ion batteries. *Materials Letters*, **2018**, 214, 107-110	3.3	11
177	Integrated bioethanol production to boost low-concentrated cellulosic ethanol without sacrificing ethanol yield. *Bioresource Technology*, **2018**, 250, 299-305	11	29
176	Stable metal battery anodes enabled by polyethylenimine sponge hosts by way of electrokinetic effects. *Nature Energy*, **2018**, 3, 1076-1083	62.3	212
175	Experimental Study of Multifunctional NCM-Si Batteries With Self-Actuation **2018**,		1
174	Epoxidized and Acrylated Epoxidized Camelina Oils for Ultraviolet-Curable Wood Coatings. *JAOCS, Journal of the American Oil ChemistskSociety*, **2018**, 95, 1307-1318	1.8	7
173	Boosting the fermentable sugar yield and concentration of corn stover by magnesium oxide pretreatment for ethanol production. *Bioresource Technology*, **2018**, 269, 400-407	11	9
172	Rapid Determination of Acetic Acid, Furfural, and 5-Hydroxymethylfurfural in Biomass Hydrolysates Using Near-Infrared Spectroscopy. *ACS Omega*, **2018**, 3, 5355-5361	3.9	9
171	Growth of a Large-Area, Free-Standing, Highly Conductive and Fully Foldable Silver Film with Inverted Pyramids for Wearable Electronics Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 5312-5318	9.5	1
170	A Fluorinated Ether Electrolyte Enabled High Performance Prelithiated Graphite/Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 6959-6966	9.5	51
169	Exceptionally High Ionic Conductivity in Na P As S with Improved Moisture Stability for Solid-State Sodium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1605561	24	122
168	Origin of Outstanding Phase and Moisture Stability in a NaPAsS Superionic Conductor. *ACS Applied Materials & Interfaces*, **2017**, 9, 16261-16269	9.5	38
167	High capacity of lithium-sulfur batteries at low electrolyte/sulfur ratio enabled by an organosulfide containing electrolyte. *Nano Energy*, **2017**, 31, 418-423	17.1	70

166	Bottom-up synthesis of mesoporous carbon/silicon carbide composite at low temperature for supercapacitor electrodes. *Materials Letters*, **2017**, 198, 140-143	3.3	14
165	General Method of Manipulating Formation, Composition, and Morphology of Solid-Electrolyte Interphases for Stable Li-Alloy Anodes. *Journal of the American Chemical Society*, **2017**, 139, 17359-17367	16.4	81
164	Interfacial Chemistry Regulation via a Skin-Grafting Strategy Enables High-Performance Lithium-Metal Batteries. *Journal of the American Chemical Society*, **2017**, 139, 15288-15291	16.4	203
163	Organosulfide-plasticized solid-electrolyte interphase layer enables stable lithium metal anodes for long-cycle lithium-sulfur batteries. *Nature Communications*, **2017**, 8, 850	17.4	192
162	Advanced anode for sodium-ion battery with promising long cycling stability achieved by tuning phosphorus-carbon nanostructures. *Nano Energy*, **2017**, 40, 550-558	17.1	81
161	Self-etching preparation of yolk-shell Ag@carbon nanostructures for highly effective reduction of 4-nitrophenol. *Catalysis Communications*, **2017**, 102, 114-117	3.2	10
160	Bio-Based Wood Adhesive from Camelina Protein (a Biodiesel Residue) and Depolymerized Lignin with Improved Water Resistance. *ACS Omega*, **2017**, 2, 7996-8004	3.9	34
159	Antioxidative Properties and Interconversion of tert-Butylhydroquinone and tert-Butylquinone in Soybean Oils. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 10598-10603	5.7	13
158	Investigation on characteristics of corn stover and sorghum stalk processed by ultrasonic vibration-assisted pelleting. *Renewable Energy*, **2017**, 101, 1075-1086	8.1	18
157	Organic solvent pretreatment of lignocellulosic biomass for biofuels and biochemicals: A review. *Bioresource Technology*, **2016**, 199, 21-33	11	473
156	Development of High-Strength Soy Protein Adhesives Modified with Sodium Montmorillonite Clay. *JAOCS, Journal of the American Oil ChemistskSociety*, **2016**, 93, 1509-1517	1.8	16
155	A simple, rapid, one-step approach for preparation of Ag@TiO2 nanospheres with multiple cores as effective catalyst. *RSC Advances*, **2016**, 6, 99878-99884	3.7	3
154	Reconstructing ZnO quantum dot assembled tubular structures from nanotubes within graphene matrix via ongoing pulverization towards high-performance lithium storage. *Journal of Materials Chemistry A*, **2016**, 4, 19123-19131	13	16
153	Room-Temperature Synthesis of Mesoporous Sn/SnO2 Composite as Anode for Sodium-Ion Batteries. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1950-1954	2.3	16
152	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in LithiumSulfur Batteries. *Angewandte Chemie*, **2016**, 128, 4303-4307	3.6	33
151	Comparison of two pelleting methods for cellulosic ethanol manufacturing: ultrasonic vibration-assisted pelleting vs. ring-die pelleting. *Biomass Conversion and Biorefinery*, **2016**, 6, 13-23	2.3	6
150	Scalable process for application of stabilized lithium metal powder inLi-ion batteries. *Journal of Power Sources*, **2016**, 309, 33-41	8.9	50
149	Self-Templated Synthesis of Mesoporous Carbon from Carbon Tetrachloride Precursor for Supercapacitor Electrodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 6779-83	9.5	62

148	Advanced Sulfur Cathode Enabled by Highly Crumpled Nitrogen-Doped Graphene Sheets for High-Energy-Density Lithium-Sulfur Batteries. *Nano Letters*, **2016**, 16, 864-70	11.5	460
147	Integrating Si nanoscale building blocks into micro-sized materials to enable practical applications in lithium-ion batteries. *Nanoscale*, **2016**, 8, 1834-48	7.7	33
146	Ultrasonic vibration-assisted pelleting of cellulosic biomass for ethanol manufacturing: An investigation on pelleting temperature. *Renewable Energy*, **2016**, 86, 895-908	8.1	9
145	Porous spherical polyacrylonitrile-carbon nanocomposite with high loading of sulfur for lithium□sulfur batteries. *Journal of Power Sources*, **2016**, 302, 70-78	8.9	70
144	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 4231-5	16.4	132
143	Facile synthesis of hierarchical MoS2□arbon microspheres as a robust anode for lithium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 9653-9660	13	68
142	Appropriate biorefining strategies for multiple feedstocks: Critical evaluation for pretreatment methods, and hydrolysis with high solids loading. *Renewable Energy*, **2016**, 96, 832-842	8.1	22
141	Effects of glycerol and nanoclay on physiochemical properties of camelina gum-based films. *Carbohydrate Polymers*, **2016**, 152, 747-754	10.3	25
140	Semimicro-size agglomerate structured silicon-carbon composite as an anode material for high performance lithium-ion batteries. *Journal of Power Sources*, **2016**, 334, 128-136	8.9	41
139	Hydrothermal synthesis of well-crystallized CuO hierarchical structures and their direct application in high performance lithium-ion battery electrodes without further calcination. *RSC Advances*, **2016**, 6, 96882-96888	3.7	5
138	Rational design and synthesis of 3D MoS2 hierarchitecture with tunable nanosheets and 2H/1T phase within graphene for superior lithium storage. *Electrochimica Acta*, **2016**, 211, 1048-1055	6.7	20
137	Effects of cutting orientation in poplar wood biomass size reduction on enzymatic hydrolysis sugar yield. *Bioresource Technology*, **2015**, 194, 407-10	11	14
136	Ti-substituted Li[Li0.26Mn0.6□TixNi0.07Co0.07]O2 layered cathode material with improved structural stability and suppressed voltage fading. *Journal of Materials Chemistry A*, **2015**, 3, 17376-17384	13	33
135	A soft-hard template approach towards hollow mesoporous silica nanoparticles with rough surfaces for controlled drug delivery and protein adsorption. *Journal of Materials Chemistry B*, **2015**, 3, 6480-6489	7.3	75
134	Ultrasonic vibration-assisted (UV-A) pelleting of wheat straw: a constitutive model for pellet density. *Ultrasonics*, **2015**, 60, 117-25	3.5	4
133	A facile route for rapid synthesis of hollow mesoporous silica nanoparticles as pH-responsive delivery carrier. *Journal of Colloid and Interface Science*, **2015**, 451, 101-7	9.3	44
132	Rapid Determination of Both Structural Polysaccharides and Soluble Sugars in Sorghum Biomass Using Near-Infrared Spectroscopy. *Bioenergy Research*, **2015**, 8, 130-136	3.1	20
131	Understanding the effect of a fluorinated ether on the performance of lithium-sulfur batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 9169-77	9.5	107

130	Effect of ozone treatment on physicochemical properties of waxy rice flour and waxy rice starch. *International Journal of Food Science and Technology*, **2015**, 50, 744-749	3.8	21
129	Copolymers from epoxidized soybean oil and lactic acid oligomers for pressure-sensitive adhesives. *RSC Advances*, **2015**, 5, 27256-27265	3.7	27
128	Acid-Functionalized Magnetic Nanoparticle as Heterogeneous Catalysts for Biodiesel Synthesis. *Journal of Physical Chemistry C*, **2015**, 119, 26020-26028	3.8	100
127	Advanced Sodium Ion Battery Anode Constructed via Chemical Bonding between Phosphorus, Carbon Nanotube, and Cross-Linked Polymer Binder. *ACS Nano*, **2015**, 9, 11933-41	16.7	220
126	Oxirane Cleavage Kinetics of Epoxidized Soybean Oil by Water and UV-Polymerized Resin Adhesion Properties. *JAOCS, Journal of the American Oil ChemistskSociety*, **2015**, 92, 121-131	1.8	8
125	Effects of ultrasonic vibration-assisted pelleting on chemical composition and sugar yield of corn stover and sorghum stalk. *Renewable Energy*, **2015**, 76, 160-166	8.1	18
124	Fluorinated Electrolytes for Li-S Battery: Suppressing the Self-Discharge with an Electrolyte Containing Fluoroether Solvent. *Journal of the Electrochemical Society*, **2015**, 162, A64-A68	3.9	74
123	Stable Hydrophobic Ionic Liquid Gel Electrolyte for Stretchable Fiber-Shaped Dye-Sensitized Solar Cell. *ChemNanoMat*, **2015**, 1, 399-402	3.5	29
122	Polyanthraquinone as a Reliable Organic Electrode for Stable and Fast Lithium Storage. *Angewandte Chemie - International Edition*, **2015**, 54, 13947-51	16.4	243
121	Polyanthraquinone as a Reliable Organic Electrode for Stable and Fast Lithium Storage. *Angewandte Chemie*, **2015**, 127, 14153-14157	3.6	87
120	A Si-MnOOH composite with superior lithium storage properties. *Chemical Communications*, **2015**, 51, 6164-7	5.8	10
119	Strong Lithium Polysulfide Chemisorption on Electroactive Sites of Nitrogen-Doped Carbon Composites For High-Performance Lithium–Sulfur Battery Cathodes. *Angewandte Chemie*, **2015**, 127, 4399-4403	3.6	165
118	Phosphorus-Graphene Nanosheet Hybrids as Lithium-Ion Anode with Exceptional High-Temperature Cycling Stability. *Advanced Science*, **2015**, 2, 1400020	13.6	186
117	Strong lithium polysulfide chemisorption on electroactive sites of nitrogen-doped carbon composites for high-performance lithium-sulfur battery cathodes. *Angewandte Chemie - International Edition*, **2015**, 54, 4325-9	16.4	630
116	Ultrasonic Vibration-Assisted Pelleting of Cellulosic Biomass for Biofuel Production. *Biofuels and Biorefineries*, **2015**, 243-267	0.3	
115	GeOx/Reduced Graphene Oxide Composite as an Anode for Li-Ion Batteries: Enhanced Capacity via Reversible Utilization of Li2O along with Improved Rate Performance. *Advanced Functional Materials*, **2014**, 24, 1059-1066	15.6	135
114	Bottom-up synthesis of high surface area mesoporous crystalline silicon and evaluation of its hydrogen evolution performance. *Nature Communications*, **2014**, 5, 3605	17.4	176
113	Solvothermal synthesis of V2O5/graphene nanocomposites for high performance lithium ion batteries. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2014**, 185, 7-12	3.1	49

112	Nitrogen-Doped Mesoporous Carbon Promoted Chemical Adsorption of Sulfur and Fabrication of High-Areal-Capacity Sulfur Cathode with Exceptional Cycling Stability for Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2014**, 24, 1243-1250	15.6	820
111	Impacts of Kafirin Allelic Diversity, Starch Content, and Protein Digestibility on Ethanol Conversion Efficiency in Grain Sorghum. *Cereal Chemistry*, **2014**, 91, 218-227	2.4	18
110	Micro-sized silicon–carbon composites composed of carbon-coated sub-10 nm Si primary particles as high-performance anode materials for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 1257-1262	13	149
109	Chemically bonded phosphorus/graphene hybrid as a high performance anode for sodium-ion batteries. *Nano Letters*, **2014**, 14, 6329-35	11.5	380
108	SIZE REDUCTION OF POPLAR WOOD USING A LATHE FOR BIOFUEL MANUFACTURING: EFFECTS OF BIOMASS CRYSTALLINITY ON SUGAR YIELD. *Machining Science and Technology*, **2014**, 18, 1-14	2	
107	Titanium nitride coating to enhance the performance of silicon nanoparticles as a lithium-ion battery anode. *Journal of Materials Chemistry A*, **2014**, 2, 10375-10378	13	67
106	A study of a fluorine substituted phenyl based complex as a 3 V electrolyte for Mg batteries. *Journal of Materials Chemistry A*, **2014**, 2, 15488-15494	13	14
105	Flexible freestanding sandwich-structured sulfur cathode with superior performance for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2014**, 2, 8623-8627	13	82
104	Template-free fabrication of rattle-type TiO2 hollow microspheres with superior photocatalytic performance. *RSC Advances*, **2014**, 4, 37311	3.7	11
103	High-Performance Hybrid Supercapacitor Enabled by a High-Rate Si-based Anode. *Advanced Functional Materials*, **2014**, 24, 7433-7439	15.6	185
102	Interpenetrated Gel Polymer Binder for High-Performance Silicon Anodes in Lithium-ion Batteries. *Advanced Functional Materials*, **2014**, 24, 5904-5910	15.6	354
101	Acid monolayer functionalized iron oxide nanoparticles as catalysts for carbohydrate hydrolysis. *Green Chemistry*, **2014**, 16, 836-843	10	13
100	Mechanism of Enhanced Carbon Cathode Performance by Nitrogen Doping in Lithium–Sulfur Battery: An X-ray Absorption Spectroscopic Study. *Journal of Physical Chemistry C*, **2014**, 118, 7765-7771	3.8	93
99	Porous spherical carbon/sulfur nanocomposites by aerosol-assisted synthesis: the effect of pore structure and morphology on their electrochemical performance as lithium/sulfur battery cathodes. *ACS Applied Materials & Interfaces*, **2014**, 6, 7596-606	9.5	78
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