

Donghai Wang

List of Publications by Year in descending order

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243
papers

23,380
citations

9264

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264
docs citations

264
times ranked

23640
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled TiO ₂ –Graphene Hybrid Nanostructures for Enhanced Li-Ion Insertion. ACS Nano, 2009, 3, 907-914.	14.6	1,596
2	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.	14.9	904
3	Nanostructures and lithium electrochemical reactivity of lithium titanites and titanium oxides: A review. Journal of Power Sources, 2009, 192, 588-598.	7.8	804
4	Ternary Self-Assembly of Ordered Metal Oxide–Graphene Nanocomposites for Electrochemical Energy Storage. ACS Nano, 2010, 4, 1587-1595.	14.6	795
5	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, 4325-4329.	13.8	686
6	Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. Electrochemistry Communications, 2009, 11, 954-957.	4.7	615
7	Polymer–inorganic solid electrolyte interphase for stable lithium metal batteries under lean electrolyte conditions. Nature Materials, 2019, 18, 384-389.	27.5	587
8	Organic solvent pretreatment of lignocellulosic biomass for biofuels and biochemicals: A review. Bioresource Technology, 2016, 199, 21-33.	9.6	578
9	Advanced Sulfur Cathode Enabled by Highly Crumpled Nitrogen-Doped Graphene Sheets for High-Energy-Density Lithium-Sulfur Batteries. Nano Letters, 2016, 16, 864-870.	9.1	531
10	Interpenetrated Gel Polymer Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. Advanced Functional Materials, 2014, 24, 5904-5910.	14.9	459
11	Chemically Bonded Phosphorus/Graphene Hybrid as a High Performance Anode for Sodium-Ion Batteries. Nano Letters, 2014, 14, 6329-6335.	9.1	434
12	Polymer–Graphene Nanocomposites as Ultrafast-Charge and -Discharge Cathodes for Rechargeable Lithium Batteries. Nano Letters, 2012, 12, 2205-2211.	9.1	432
13	Glucose biosensor based on immobilization of glucose oxidase in platinum nanoparticles/graphene/chitosan nanocomposite film. Talanta, 2009, 80, 403-406.	5.5	416
14	Micro-sized Si Composite with Interconnected Nanoscale Building Blocks as High-Performance Anodes for Practical Application in Lithium-Ion Batteries. Advanced Energy Materials, 2013, 3, 295-300.	19.5	412
15	Stabilization of Electrocatalytic Metal Nanoparticles at Metal–Metal Oxide–Graphene Triple Junction Points. Journal of the American Chemical Society, 2011, 133, 2541-2547.	13.7	391
16	Oriented Nanostructures for Energy Conversion and Storage. ChemSusChem, 2008, 1, 676-697.	6.8	367
17	LiMnPO ₄ Nanoplate Grown via Solid-State Reaction in Molten Hydrocarbon for Li-Ion Battery Cathode. Nano Letters, 2010, 10, 2799-2805.	9.1	354
18	Stable metal battery anodes enabled by polyethylenimine sponge hosts by way of electrokinetic effects. Nature Energy, 2018, 3, 1076-1083.	39.5	338

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19	Polyanthraquinone as a Reliable Organic Electrode for Stable and Fast Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13947-13951.	13.8	333
20	Effect of entropy change of lithium intercalation in cathodes and anodes on Li-ion battery thermal management. <i>Journal of Power Sources</i> , 2010, 195, 3720-3729.	7.8	313
21	Optimization of Air Electrode for Li/Air Batteries. <i>Journal of the Electrochemical Society</i> , 2010, 157, A487.	2.9	308
22	Low-temperature and high-rate-charging lithium metal batteries enabled by an electrochemically active monolayer-regulated interface. <i>Nature Energy</i> , 2020, 5, 534-542.	39.5	280
23	Advanced Sodium Ion Battery Anode Constructed <i>via</i> Chemical Bonding between Phosphorus, Carbon Nanotube, and Cross-Linked Polymer Binder. <i>ACS Nano</i> , 2015, 9, 11933-11941.	14.6	255
24	Interfacial Chemistry Regulation via a Skin-Grafting Strategy Enables High-Performance Lithium-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 15288-15291.	13.7	255
25	Synthesis and Li-Ion Insertion Properties of Highly Crystalline Mesoporous Rutile TiO ₂ . <i>Chemistry of Materials</i> , 2008, 20, 3435-3442.	6.7	254
26	Organosulfide-plasticized solid-electrolyte interphase layer enables stable lithium metal anodes for long-cycle lithium-sulfur batteries. <i>Nature Communications</i> , 2017, 8, 850.	12.8	240
27	Asymmetric Temperature Modulation for Extreme Fast Charging of Lithium-Ion Batteries. <i>Joule</i> , 2019, 3, 3002-3019.	24.0	234
28	Mesoporous Carbon@Carbon Nanotube@Sulfur Composite Microspheres for High-Areal-Capacity Lithium@Sulfur Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11355-11362.	8.0	230
29	Phosphorus@Graphene Nanosheet Hybrids as Lithium@Ion Anode with Exceptional High@Temperature Cycling Stability. <i>Advanced Science</i> , 2015, 2, 1400020.	11.2	214
30	Bottom-up synthesis of high surface area mesoporous crystalline silicon and evaluation of its hydrogen evolution performance. <i>Nature Communications</i> , 2014, 5, 3605.	12.8	212
31	High@Performance Hybrid Supercapacitor Enabled by a High@Rate Si@based Anode. <i>Advanced Functional Materials</i> , 2014, 24, 7433-7439.	14.9	208
32	Silicon core@hollow carbon shell nanocomposites with tunable buffer voids for high capacity anodes of lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12741.	2.8	196
33	Influence of Silicon Nanoscale Building Blocks Size and Carbon Coating on the Performance of Micro@Sized Si@C Composite Li@Ion Anodes. <i>Advanced Energy Materials</i> , 2013, 3, 1507-1515.	19.5	169
34	Formation of SnS nanoflowers for lithium ion batteries. <i>Chemical Communications</i> , 2012, 48, 5608.	4.1	167
35	Micro-sized silicon@carbon composites composed of carbon-coated sub-10 nm Si primary particles as high-performance anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1257-1262.	10.3	165
36	Exceptionally High Ionic Conductivity in Na ₃ P _{0.62} As _{0.38} S ₄ with Improved Moisture Stability for Solid@State Sodium@Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1605561.	21.0	164

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37	Bis(2,2,2-trifluoroethyl) Ether As an Electrolyte Co-solvent for Mitigating Self-Discharge in Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2014, 6, 8006-8010.	8.0	161
38	Effects of Biomass Feedstocks and Gasification Conditions on the Physiochemical Properties of Char. Energies, 2013, 6, 3972-3986.	3.1	157
39	Dual conductive network-enabled graphene/SiC composite anode with high areal capacity for lithium-ion batteries. Nano Energy, 2014, 6, 211-218.	16.0	155
40	High Capacity MoO ₂ /Graphite Oxide Composite Anode for Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2012, 3, 309-314.	4.6	151
41	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 4231-4235.	13.8	149
42	Self-Formed Hybrid Interphase Layer on Lithium Metal for High-Performance Lithium-Sulfur Batteries. ACS Nano, 2018, 12, 1500-1507.	14.6	149
43	Li-ion batteries from LiFePO ₄ cathode and anatase/graphene composite anode for stationary energy storage. Electrochemistry Communications, 2010, 12, 378-381.	4.7	145
44	GeO _x /Reduced Graphene Oxide Composite as an Anode for Li-ion Batteries: Enhanced Capacity via Reversible Utilization of Li ₂ O along with Improved Rate Performance. Advanced Functional Materials, 2014, 24, 1059-1066.	14.9	143
45	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li ₁₀ GeP ₂ S ₁₂ Solid Electrolyte Interface. Angewandte Chemie - International Edition, 2018, 57, 13608-13612.	13.8	138
46	Artificial dual solid-electrolyte interfaces based on in situ organothiol transformation in lithium sulfur battery. Nature Communications, 2021, 12, 3031.	12.8	138
47	Acid-Functionalized Magnetic Nanoparticle as Heterogeneous Catalysts for Biodiesel Synthesis. Journal of Physical Chemistry C, 2015, 119, 26020-26028.	3.1	130
48	Electrodeposition of Metallic Nanowire Thin Films Using Mesoporous Silica Templates. Advanced Materials, 2003, 15, 130-133.	21.0	129
49	A General Route to Macroscopic Hierarchical 3D Nanowire Networks. Angewandte Chemie - International Edition, 2004, 43, 6169-6173.	13.8	123
50	Understanding the Effect of a Fluorinated Ether on the Performance of Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2015, 7, 9169-9177.	8.0	121
51	Amorphous Zn ₂ GeO ₄ nanoparticles as anodes with high reversible capacity and long cycling life for Li-ion batteries. Nano Energy, 2013, 2, 498-504.	16.0	120
52	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.	13.7	112
53	Stable Li Metal Anode by a Hybrid Lithium Polysulfidophosphate/Polymer Cross-Linking Film. ACS Energy Letters, 2019, 4, 1271-1278.	17.4	107
54	Stable Li metal anode by a polyvinyl alcohol protection layer via modifying solid-electrolyte interphase layer. Nano Energy, 2019, 64, 103893.	16.0	106

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55	Pyrolysis of Torrefied Biomass. <i>Trends in Biotechnology</i> , 2018, 36, 1287-1298.	9.3	100
56	Mechanism of Enhanced Carbon Cathode Performance by Nitrogen Doping in Lithium-Sulfur Battery: An X-ray Absorption Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7765-7771.	3.1	99
57	Advanced anode for sodium-ion battery with promising long cycling stability achieved by tuning phosphorus-carbon nanostructures. <i>Nano Energy</i> , 2017, 40, 550-558.	16.0	99
58	Soy protein adhesion enhanced by glutaraldehyde crosslink. <i>Journal of Applied Polymer Science</i> , 2007, 104, 130-136.	2.6	98
59	Facile synthesis of graphene-silicon nanocomposites with an advanced binder for high-performance lithium-ion battery anodes. <i>Solid State Ionics</i> , 2014, 254, 65-71.	2.7	89
60	A soft-hard template approach towards hollow mesoporous silica nanoparticles with rough surfaces for controlled drug delivery and protein adsorption. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6480-6489.	5.8	89
61	Exceptional electrochemical performance of rechargeable Li-S batteries with a polysulfide-containing electrolyte. <i>RSC Advances</i> , 2013, 3, 3540.	3.6	87
62	Flexible freestanding sandwich-structured sulfur cathode with superior performance for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8623-8627.	10.3	87
63	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. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7596-7606.	8.0	84
64	Fluorinated Electrolytes for Li-S Battery: Suppressing the Self-Discharge with an Electrolyte Containing Fluoroether Solvent. <i>Journal of the Electrochemical Society</i> , 2015, 162, A64-A68.	2.9	83
65	High capacity of lithium-sulfur batteries at low electrolyte/sulfur ratio enabled by an organosulfide containing electrolyte. <i>Nano Energy</i> , 2017, 31, 418-423.	16.0	83
66	A new approach to both high safety and high performance of lithium-ion batteries. <i>Science Advances</i> , 2020, 6, eaay7633.	10.3	83
67	Low-Temperature Synthesis of Tunable Mesoporous Crystalline Transition Metal Oxides and Applications as Au Catalyst Supports. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13499-13509.	3.1	81
68	A Scientific Study of Current Collectors for Mg Batteries in $Mg(AlCl_2EtBu)_2/THF$ Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013, 160, A351-A355.	2.9	80
69	Supremely elastic gel polymer electrolyte enables a reliable electrode structure for silicon-based anodes. <i>Nature Communications</i> , 2019, 10, 5586.	12.8	80
70	Titanium nitride coating to enhance the performance of silicon nanoparticles as a lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10375-10378.	10.3	79
71	Porous spherical polyacrylonitrile-carbon nanocomposite with high loading of sulfur for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 302, 70-78.	7.8	77
72	Electrokinetic Phenomena Enhanced Lithium-Ion Transport in Leaky Film for Stable Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1900704.	19.5	76

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73	Surface-Mediated Growth of Transparent, Oriented, and Well-Defined Nanocrystalline Anatase Titania Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 13670-13671.	13.7	75
74	Self-Templated Synthesis of Mesoporous Carbon from Carbon Tetrachloride Precursor for Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6779-6783.	8.0	75
75	Scalable process for application of stabilized lithium metal powder in Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 309, 33-41.	7.8	74
76	Facile synthesis of hierarchical MoS ₂ @carbon microspheres as a robust anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9653-9660.	10.3	73
77	Improved rate capability of Si@C composite anodes by boron doping for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 36, 29-32.	4.7	71
78	Isoelectric pH of polyamide-epichlorohydrin modified soy protein improved water resistance and adhesion properties. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2261-2270.	2.6	70
79	Silica-Templated Continuous Mesoporous Carbon Films by a Spin-Coating Technique. <i>Advanced Materials</i> , 2004, 16, 884-886.	21.0	69
80	Effects of the pelleting conditions on chemical composition and sugar yield of corn stover, big bluestem, wheat straw, and sorghum stalk pellets. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 615-623.	3.4	69
81	Metal and Semiconductor Nanowire Network Thin Films with Hierarchical Pore Structures. <i>Chemistry of Materials</i> , 2006, 18, 4231-4237.	6.7	67
82	A Fluorinated Ether Electrolyte Enabled High Performance Prelithiated Graphite/Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6959-6966.	8.0	65
83	Enhanced performance of SiO ₂ /Fe ₂ O ₃ composite as an anode for rechargeable Li-ion batteries. <i>Electrochemistry Communications</i> , 2013, 28, 79-82.	4.7	64
84	Magnetic Cobalt Nanowire Thin Films. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1919-1922.	2.6	63
85	Conversion of liquid hot water, acid and alkali pretreated industrial hemp biomasses to bioethanol. <i>Bioresource Technology</i> , 2020, 309, 123383.	9.6	63
86	Self-assembled materials for catalysis. <i>Nano Research</i> , 2009, 2, 1-29.	10.4	61
87	Lithium-ion batteries for stationary energy storage. <i>Jom</i> , 2010, 62, 24-30.	1.9	59
88	Interfacially Controlled Synthesis of Hollow Mesoporous Silica Spheres with Radially Oriented Pore Structures. <i>Langmuir</i> , 2010, 26, 12267-12272.	3.5	58
89	Solvothermal synthesis of V ₂ O ₅ /graphene nanocomposites for high performance lithium ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 7-12.	3.5	58
90	Hierarchical mesoporous silica wires by confined assembly. <i>Chemical Communications</i> , 2005, , 166.	4.1	56

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91	A quaternary sodium superionic conductor - Na _{10.8} Sn _{1.9} PS _{11.8} . Nano Energy, 2018, 47, 325-330.	16.0	55
92	Thermal properties and adhesion strength of modified soybean storage proteins. JAOCS, Journal of the American Oil Chemists' Society, 2004, 81, 395-400.	1.9	52
93	A facile route for rapid synthesis of hollow mesoporous silica nanoparticles as pH-responsive delivery carrier. Journal of Colloid and Interface Science, 2015, 451, 101-107.	9.4	52
94	Minimized Volume Expansion in Hierarchical Porous Silicon upon Lithiation. ACS Applied Materials & Interfaces, 2019, 11, 13257-13263.	8.0	51
95	Evaluation of Waxy Grain Sorghum for Ethanol Production. Cereal Chemistry, 2011, 88, 589-595.	2.2	50
96	Physicochemical Properties and Adhesion Performance of Canola Protein Modified with Sodium Bisulfite. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 897-908.	1.9	50
97	Adhesive Performance of Sorghum Protein Extracted from Sorghum DDGS and Flour. Journal of Polymers and the Environment, 2011, 19, 755-765.	5.0	49
98	Amorphous Si/SiO _x /SiO ₂ nanocomposites via facile scalable synthesis as anode materials for Li-ion batteries with long cycling life. RSC Advances, 2012, 2, 12710.	3.6	47
99	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.	7.8	47
100	Origin of Outstanding Phase and Moisture Stability in a Na ₃ P ₁ As _x S ₄ Superionic Conductor. ACS Applied Materials & Interfaces, 2017, 9, 16261-16269.	8.0	46
101	Toward Better Lithium-Sulfur Batteries: Functional Non-aqueous Liquid Electrolytes. Electrochemical Energy Reviews, 2018, 1, 388-402.	25.5	46
102	Wet Strength and Water Resistance of Modified Soy Protein Adhesives and Effects of Drying Treatment. Journal of Polymers and the Environment, 2003, 11, 137-144.	5.0	45
103	Sulfuric acid pretreatment and enzymatic hydrolysis of photoperiod sensitive sorghum for ethanol production. Bioprocess and Biosystems Engineering, 2011, 34, 485-492.	3.4	45
104	Bio-Based Wood Adhesive from Camelina Protein (a Biodiesel Residue) and Depolymerized Lignin with Improved Water Resistance. ACS Omega, 2017, 2, 7996-8004.	3.5	45
105	Superior Performance of a Lithium-Sulfur Battery Enabled by a Dimethyl Trisulfide Containing Electrolyte. Small Methods, 2018, 2, 1800038.	8.6	44
106	Relationships between cellulosic biomass particle size and enzymatic hydrolysis sugar yield: Analysis of inconsistent reports in the literature. Renewable Energy, 2013, 60, 127-136.	8.9	43
107	Synthesis and understanding of Na ₁₁ Sn ₂ PSe ₁₂ with enhanced ionic conductivity for all-solid-state Na-ion battery. Energy Storage Materials, 2019, 17, 70-77.	18.0	42
108	Organosulfide-Based Deep Eutectic Electrolyte for Lithium Batteries. Angewandte Chemie - International Edition, 2021, 60, 9881-9885.	13.8	42

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109	Hempseed as a nutritious and healthy human food or animal feed source: a review. <i>International Journal of Food Science and Technology</i> , 2021, 56, 530-543.	2.7	41
110	Ti-substituted $\text{Li}[\text{Li}_{0.26}\text{Mn}_{0.6}\text{Ti}_x\text{Ni}_{0.07}\text{Co}_{0.07}\text{O}_2]_2$ layered cathode material with improved structural stability and suppressed voltage fading. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17376-17384.	10.3	40
111	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2540-2546.	17.4	40
112	Integrating Si nanoscale building blocks into micro-sized materials to enable practical applications in lithium-ion batteries. <i>Nanoscale</i> , 2016, 8, 1834-1848.	5.6	38
113	Integrated bioethanol production to boost low-concentrated cellulosic ethanol without sacrificing ethanol yield. <i>Bioresource Technology</i> , 2018, 250, 299-305.	9.6	38
114	Confining Sulfur in Porous Carbon by Vapor Deposition to Achieve High-Performance Cathode for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2021, 6, 413-418.	17.4	37
115	Templated Synthesis, Characterization, and Sensing Application of Macroscopic Platinum Nanowire Network Electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1904-1909.	0.9	36
116	Stable Hydrophobic Ionic Liquid Gel Electrolyte for Stretchable Fiber-Shaped Dye-Sensitized Solar Cell. <i>ChemNanoMat</i> , 2015, 1, 399-402.	2.8	36
117	Physicochemical Properties of Soy Protein Adhesives Obtained by In Situ Sodium Bisulfite Modification During Acid Precipitation. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 301-312.	1.9	35
118	Effect of ozone treatment on physicochemical properties of waxy rice flour and waxy rice starch. <i>International Journal of Food Science and Technology</i> , 2015, 50, 744-749.	2.7	35
119	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 4303-4307.	2.0	35
120	Rapid determination of total phenolic content of whole wheat flour using near-infrared spectroscopy and chemometrics. <i>Food Chemistry</i> , 2021, 344, 128633.	8.2	34
121	Effects of glycerol and nanoclay on physicochemical properties of camelina gum-based films. <i>Carbohydrate Polymers</i> , 2016, 152, 747-754.	10.2	33
122	A Superior Carbonate Electrolyte for Stable Cycling Li Metal Batteries Using High Ni Cathode. <i>ACS Energy Letters</i> , 2022, 7, 2282-2288.	17.4	32
123	Copolymers from epoxidized soybean oil and lactic acid oligomers for pressure-sensitive adhesives. <i>RSC Advances</i> , 2015, 5, 27256-27265.	3.6	31
124	Aerosol-Assisted Formation of Mesostructured Thin Films. <i>Advanced Materials</i> , 2003, 15, 1733-1736.	21.0	30
125	Self-Assembly of Mesostructured Conjugated Poly(2,5-thienylene ethynylene)/Silica Nanocomposites. <i>Advanced Materials</i> , 2003, 15, 1266-1269.	21.0	29
126	Integrating bran starch hydrolysates with alkaline pretreated soft wheat bran to boost sugar concentration. <i>Bioresource Technology</i> , 2020, 302, 122826.	9.6	28

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127	Appropriate biorefining strategies for multiple feedstocks: Critical evaluation for pretreatment methods, and hydrolysis with high solids loading. <i>Renewable Energy</i> , 2016, 96, 832-842.	8.9	26
128	On the denaturation of enzymes in the process of foam fractionation. <i>Bioseparation</i> , 1998, 7, 167-174.	0.7	25
129	Ultrasonic vibration-assisted pelleting of wheat straw: A predictive model for energy consumption using response surface methodology. <i>Ultrasonics</i> , 2014, 54, 305-311.	3.9	25
130	The combination of intercalation and conversion reactions to improve the volumetric capacity of the cathode in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3618-3623.	10.3	25
131	Impacts of Kafirin Allelic Diversity, Starch Content, and Protein Digestibility on Ethanol Conversion Efficiency in Grain Sorghum. <i>Cereal Chemistry</i> , 2014, 91, 218-227.	2.2	24
132	Rational design and synthesis of 3D MoS ₂ hierarchy with tunable nanosheets and 2H/1T phase within graphene for superior lithium storage. <i>Electrochimica Acta</i> , 2016, 211, 1048-1055.	5.2	24
133	Development of High-Strength Soy Protein Adhesives Modified with Sodium Montmorillonite Clay. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2016, 93, 1509-1517.	1.9	24
134	High-solid pretreatment of corn stover using urea for enzymatic saccharification. <i>Bioresource Technology</i> , 2018, 259, 83-90.	9.6	24
135	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. <i>Nano Letters</i> , 2020, 20, 2756-2762.	9.1	24
136	Sorghum Protein Extraction by Sonication and Its Relationship to Ethanol Fermentation. <i>Cereal Chemistry</i> , 2008, 85, 837-842.	2.2	23
137	Assessing Fermentation Quality of Grain Sorghum for Fuel Ethanol Production Using Rapid Visco-Analyzer. <i>Cereal Chemistry</i> , 2008, 85, 830-836.	2.2	23
138	Ethanol Production Performance of Ozone-Treated Tannin Grain Sorghum Flour. <i>Cereal Chemistry</i> , 2012, 89, 30-37.	2.2	23
139	Adhesion and Physicochemical Properties of Soy Protein Modified by Sodium Bisulfite. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1917-1926.	1.9	23
140	Carbon dioxide hydrogenation to aromatic hydrocarbons by using an iron/iron oxide nanocatalyst. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 760-769.	2.8	23
141	Room-Temperature Synthesis of Mesoporous Sn/SnO ₂ Composite as Anode for Sodium-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1950-1954.	2.0	23
142	High Ethanol Concentration (77 g/L) of Industrial Hemp Biomass Achieved Through Optimizing the Relationship between Ethanol Yield/Concentration and Solid Loading. <i>ACS Omega</i> , 2020, 5, 21913-21921.	3.5	23
143	A comprehensive review of wheat phytochemicals: From farm to fork and beyond. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 2274-2308.	11.7	23
144	Probing Porosity and Pore Interconnectivity in Self-Assembled TiO ₂ -Graphene Hybrid Nanostructures Using Hyperpolarized ¹²⁹ Xe NMR. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22-29.	3.1	22

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145	Rapid Determination of Both Structural Polysaccharides and Soluble Sugars in Sorghum Biomass Using Near-Infrared Spectroscopy. <i>Bioenergy Research</i> , 2015, 8, 130-136.	3.9	22
146	Nanomaterials for Energy Conversion and Storage. <i>ChemNanoMat</i> , 2016, 2, 560-561.	2.8	22
147	Preparation of Micrometer- to Sub-micrometer-Sized Nanostructured Silica Particles Using High-Energy Ball Milling. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1280-1286.	3.8	21
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