

Yong Chen

List of Publications by Year in descending order

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104
papers

6,283
citations

218677

26
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69250

77
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107
all docs

107
docs citations

107
times ranked

8546
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface passivation of perovskite film for efficient solar cells. <i>Nature Photonics</i> , 2019, 13, 460-466.	31.4	3,458
2	Three-dimensional porous graphene-like sheets synthesized from biocarbon <i>via</i> low-temperature graphitization for a supercapacitor. <i>Green Chemistry</i> , 2018, 20, 694-700.	9.0	202
3	A review of charge storage in porous carbon-based supercapacitors. <i>New Carbon Materials</i> , 2021, 36, 49-68.	6.1	152
4	Influence of temperature on product distribution and biochar properties by municipal sludge pyrolysis. <i>Journal of Material Cycles and Waste Management</i> , 2013, 15, 357-361.	3.0	124
5	Characteristic of heavy metals in biochar derived from sewage sludge. <i>Journal of Material Cycles and Waste Management</i> , 2016, 18, 725-733.	3.0	123
6	Effect of the oxygen functional groups of activated carbon on its electrochemical performance for supercapacitors. <i>New Carbon Materials</i> , 2020, 35, 232-243.	6.1	100
7	Renewable biomass-derived carbons for electrochemical capacitor applications. <i>SusMat</i> , 2021, 1, 211-240.	14.9	98
8	MXene-Derived Defect-Rich TiO ₂ @rGO as High-Rate Anodes for Full Na Ion Batteries and Capacitors. <i>Nano-Micro Letters</i> , 2020, 12, 128.	27.0	93
9	Synthesis of Double-Shell SnO ₂ @C Hollow Nanospheres as Sulfur/Sulfide Cages for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27795-27802.	8.0	87
10	Composition and Interface Engineering for Efficient and Thermally Stable Pb-Sn Mixed Low-Bandgap Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1804603.	14.9	87
11	Correlating structural changes of the improved cyclability upon Nd-substitution in LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode materials. <i>Energy Storage Materials</i> , 2019, 18, 260-268.	18.0	82
12	Nitrogen-doped carbon sheets derived from chitin as non-metal bifunctional electrocatalysts for oxygen reduction and evolution. <i>RSC Advances</i> , 2015, 5, 56121-56129.	3.6	79
13	Nd-doped LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ as a cathode material for better rate capability in high voltage cycling of Li-ion batteries. <i>Electrochimica Acta</i> , 2017, 254, 50-58.	5.2	75
14	Improved cycling stability of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ through microstructure consolidation by TiO ₂ coating for Li-ion batteries. <i>Journal of Power Sources</i> , 2020, 448, 227439.	7.8	56
15	Pore structures of multi-walled carbon nanotubes activated by air, CO ₂ and KOH. <i>Journal of Porous Materials</i> , 2006, 13, 141-146.	2.6	51
16	A CoMoO ₄ @Co ₂ Mo ₃ O ₈ heterostructure with valence-rich molybdenum for a high-performance hydrogen evolution reaction in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16761-16769.	10.3	50
17	A flexible Cellulose/Methylcellulose gel polymer electrolyte endowing superior Li ⁺ conducting property for lithium ion battery. <i>Carbohydrate Polymers</i> , 2020, 246, 116622.	10.2	47
18	Electrochemical Oscillation in Li-Ion Batteries. <i>Joule</i> , 2018, 2, 1265-1277.	24.0	44

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19	Ultrathin NiFe-layered double hydroxide decorated NiCo ₂ O ₄ arrays with enhanced performance for supercapacitors. <i>Applied Surface Science</i> , 2019, 465, 929-936.	6.1	38
20	Significant enhancement of electron transfer from <i>Shewanella oneidensis</i> using a porous N-doped carbon cloth in a bioelectrochemical system. <i>Science of the Total Environment</i> , 2019, 665, 882-889.	8.0	36
21	Synthesis of TiC Nanoparticles Anchored on Hollow Carbon Nanospheres for Enhanced Polysulfide Adsorption in Li ⁺ S Batteries. <i>ChemSusChem</i> , 2016, 9, 3338-3344.	6.8	34
22	Facile Synthesis of MnO ₂ /Polypyrrole/MnO ₂ Multiwalled Nanotubes as Advanced Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015, 2, 1152-1158.	3.4	33
23	Steamed cake-derived 3D carbon foam with surface anchored carbon nanoparticles as freestanding anodes for high-performance microbial fuel cells. <i>Science of the Total Environment</i> , 2018, 636, 1081-1088.	8.0	33
24	One-step hydroprocessing of fatty acids into renewable aromatic hydrocarbons over Ni/HZSM-5: insights into the major reaction pathways. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2961-2973.	2.8	30
25	A novel sewage sludge biochar and ferrate synergetic conditioning for enhancing sludge dewaterability. <i>Chemosphere</i> , 2019, 237, 124339.	8.2	28
26	Defect Engineering of Carbons for Energy Conversion and Storage Applications. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	28
27	Artefact peaks of pore size distributions caused by unclosed sorption isotherm and tensile strength effect. <i>Adsorption</i> , 2020, 26, 633-644.	3.0	27
28	Facile synthesis of graphene/polypyrrole 3D composite for a high-sensitivity non-enzymatic dopamine detection. <i>Journal of Applied Polymer Science</i> , 2017, 134, 44840.	2.6	26
29	Radially Microstructural Design of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material toward Long-Term Cyclability and High Rate Capability at High Voltage. <i>ACS Applied Energy Materials</i> , 2020, 3, 6657-6669.	5.1	26
30	THE EFFECT OF A SUPPORT LAYER ON THE PERMEABILITY OF WATER VAPOR IN ASYMMETRIC COMPOSITE MEMBRANES. <i>Separation Science and Technology</i> , 2001, 36, 3701-3720.	2.5	25
31	Fast Synthesis of Hierarchical Co(OH) ₂ Nanosheet Hollow Spheres with Enhanced Glucose Sensing. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3163-3168.	2.0	25
32	Insight into forced hydrogen re-arrangement and altered reaction pathways in a protocol for CO ₂ catalytic processing of oleic acid into C ₈ -C ₁₅ alkanes. <i>Green Chemistry</i> , 2017, 19, 4157-4168.	9.0	25
33	Enhanced <i>Rhodococcus pyridinivorans</i> HR-1 anode performance by adding trehalose lipid in microbial fuel cell. <i>Bioresource Technology</i> , 2018, 267, 774-777.	9.6	25
34	Chlorine migration mechanisms during torrefaction of fermentation residue from food waste. <i>Bioresource Technology</i> , 2019, 271, 9-15.	9.6	25
35	Graphene as regulating zinc deposition layer for long-life zinc ion hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2021, 42, 103037.	8.1	25
36	Relaxation-Induced Memory Effect of LiFePO ₄ Electrodes in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24561-24567.	8.0	23

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37	Combustion and Heat Release Characteristics of Biogas under Hydrogen- and Oxygen-Enriched Condition. <i>Energies</i> , 2017, 10, 1200.	3.1	23
38	Aptamer-Patterned Hydrogel Films for Spatiotemporally Programmable Capture and Release of Multiple Proteins. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8546-8554.	8.0	23
39	Synthesis, Characterization, and Dye Removal of ZnCl ₂ -Modified Biochar Derived from Pulp and Paper Sludge. <i>ACS Omega</i> , 2021, 6, 34712-34723.	3.5	23
40	A Study on Combustion Characteristics and Kinetic Model of Municipal Solid Wastes. <i>Energy & Fuels</i> , 2001, 15, 1441-1446.	5.1	22
41	HCl Formation from RDF Pyrolysis and Combustion in a Spouting-Moving Bed Reactor. <i>Energy & Fuels</i> , 2002, 16, 608-614.	5.1	22
42	Chitosan-collagen/organomontmorillonite scaffold for bone tissue engineering. <i>Frontiers of Materials Science</i> , 2015, 9, 405-412.	2.2	22
43	Hypercrosslinked polymer based carbonaceous materials as efficient catalysts for ethyl levulinate production from carbohydrates. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3073-3083.	3.2	22
44	Electrochemical behavior of horseradish peroxidase on WS ₂ nanosheet-modified electrode and electrocatalytic investigation. <i>Journal of the Chinese Chemical Society</i> , 2018, 65, 1127-1135.	1.4	20
45	The promotion of phase transitions for Ni-based layered cathode towards enhanced high-voltage cycle stability. <i>Journal of Power Sources</i> , 2020, 477, 228699.	7.8	20
46	Deep Transfer Learning Method Based on 1D-CNN for Bearing Fault Diagnosis. <i>Shock and Vibration</i> , 2021, 2021, 1-16.	0.6	20
47	Biomass-Tar-Enabled Nitrogen-Doped Highly Ultramicroporous Carbon as an Efficient Absorbent for CO ₂ Capture. <i>Energy & Fuels</i> , 2019, 33, 8927-8936.	5.1	19
48	Catalytic Pyrolysis of Polyethylene for the Selective Production of Monocyclic Aromatics over the Zinc-Loaded ZSM-5 Catalyst. <i>ACS Omega</i> , 2022, 7, 2752-2765.	3.5	19
49	Catalytic Dehydration of Ethanol to Ethylene on TiO ₂ /4A Zeolite Composite Catalysts. <i>Catalysis Letters</i> , 2009, 130, 308-311.	2.6	18
50	Size-Dependent Memory Effect of the LiFePO ₄ Electrode in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41407-41414.	8.0	17
51	An environment-friendly crosslinked binder endowing LiFePO ₄ electrode with structural integrity and long cycle life performance. <i>RSC Advances</i> , 2020, 10, 29362-29372.	3.6	17
52	Building nickel-rich cathodes with large concentration gradient for high performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 468, 228405.	7.8	17
53	Magnetically Recyclable Loofah Biochar by KMnO ₄ Modification for Adsorption of Cu(II) from Aqueous Solutions. <i>ACS Omega</i> , 2022, 7, 8844-8853.	3.5	17
54	Lithium Borocarbide LiBC as an Anode Material for Rechargeable Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18231-18236.	3.1	16

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55	Carbon dioxide reduction to multicarbon hydrocarbons and oxygenates on plant moss-derived, metal-free, in situ nitrogen-doped biochar. <i>Science of the Total Environment</i> , 2020, 739, 140340.	8.0	15
56	Exploring the potential of community-based grassland management in Yanchi County of Ningxia Hui Autonomous Region, China: an application of the SWOT-AHP method. <i>Environmental Earth Sciences</i> , 2014, 72, 1811-1820.	2.7	13
57	High-voltage performance of concentration-gradient $\text{Li}[\text{Ni}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}]\text{O}_2$ layered oxide cathode materials for lithium batteries. <i>New Journal of Chemistry</i> , 2018, 42, 5868-5874.	2.8	13
58	Uniform Zn Deposition Achieved by Conductive Carbon Additive for Zn Anode in Zinc-Ion Hybrid Supercapacitors. <i>Energy Technology</i> , 2021, 9, 2100297.	3.8	13
59	Hierarchical carbon microstructures prepared from oil-palm-shell tracheids for Li-S batteries. <i>New Journal of Chemistry</i> , 2017, 41, 4110-4115.	2.8	12
60	Pyrolysis and Combustion of Refuse-Derived Fuels in a Spouting Moving Bed Reactor. <i>Energy & Fuels</i> , 2002, 16, 136-142.	5.1	11
61	On the Pyrolysis of Sewage Sludge: The Influence of Pyrolysis Temperature on Biochar, Liquid and Gas Fractions. <i>Advanced Materials Research</i> , 0, 518-523, 3412-3420.	0.3	11
62	Cathode materials with cross-stack structures for suppressing intergranular cracking and high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 261, 513-520.	5.2	11
63	Electrode structural changes and their effects on capacitance performance during preparation and charge-discharge processes. <i>Journal of Energy Storage</i> , 2019, 24, 100799.	8.1	11
64	Reversible Al-Site Switching and Consequent Memory Effect of Al-Doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17415-17423.	8.0	11
65	Coin-Cell-Based In Situ Characterization Techniques for Li-Ion Batteries. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	10
66	A Collaboratively Polar Conductive Interface for Accelerating Polysulfide Redox Conversion. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14035-14043.	8.0	10
67	Multi-dimensional graded electrodes with enhanced capacitance and superior cyclic stability. <i>Journal of Power Sources</i> , 2021, 481, 228911.	7.8	10
68	Insight into the role of varied acid-base sites on fast pyrolysis kinetics and mechanism of cellulose. <i>Waste Management</i> , 2021, 135, 140-149.	7.4	10
69	Cathode/gel polymer electrolyte integration design based on continuous composition and preparation technique for high performance lithium ion batteries. <i>RSC Advances</i> , 2021, 11, 3854-3862.	3.6	10
70	Catalytic Purification of Raw Gas from Biomass Gasification on MoCo/Cordierite Monolithic Catalyst. <i>Energy & Fuels</i> , 2013, 27, 2099-2106.	5.1	9
71	Effect of prohibiting grazing policy in northern China: a case study of Yanchi County. <i>Environmental Earth Sciences</i> , 2014, 72, 67-77.	2.7	9
72	Renewable and Metal-Free Carbon Derived from Aquatic Scindapsus Affording Mesoporous, Large Interface, and Enriched Pyridinic-N for Efficient Oxygen Reduction Reaction Catalysis. <i>Energy & Fuels</i> , 2020, 34, 13089-13095.	5.1	9

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73	Catalytic fast pyrolysis of waste mixed cloth for the production of value-added chemicals. Waste Management, 2021, 127, 141-146.	7.4	9
74	A Look-Up Table Based Fractional Order Composite Controller Synthesis Method for the PMSM Speed Servo System. Fractal and Fractional, 2022, 6, 47.	3.3	9
75	Farmers' Perception of the Decade-Long Grazing Ban Policy in Northern China: A Case Study of Yanchi County. Sustainability, 2016, 8, 1113.	3.2	8
76	Rapid synthesis of hollow Ni(OH) ₂ with low-crystallinity for the electrochemical detection of ascorbic acid with high sensitivity. RSC Advances, 2016, 6, 43598-43604.	3.6	8
77	Chemical looping gasification using Nickel-containing electroplating sludge and dyeing sludge as oxygen carrier. Waste Management, 2022, 141, 194-201.	7.4	8
78	Memory-effect-induced electrochemical oscillation of an Al-doped Li ₄ Ti ₅ O ₁₂ composite in Li-ion batteries. Chemical Communications, 2019, 55, 1279-1282.	4.1	7
79	A stable filamentous coaxial microelectrode for Li-ion batteries: a case of olivine LiFePO ₄ . Chemical Communications, 2019, 55, 3529-3531.	4.1	7
80	Effects of Various Elements Doping on LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Layered Materials for Lithium-ion Batteries. Energy Technology, 2021, 9, 2100074.	3.8	7
81	Study on the Hydrodynamics of a Spouting Moving Bed. Industrial & Engineering Chemistry Research, 2001, 40, 4983-4989.	3.7	6
82	A Label-Free Fluorescent AND Logic Gate Aptasensor for Sensitive ATP Detection. Sensors, 2018, 18, 3281.	3.8	6
83	Electrochemical Oscillation during the Galvanostatic Charging of Li ₄ Ti ₅ O ₁₂ in Li-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 14549-14558.	3.1	6
84	A Label-Free Fluorescent DNA Calculator Based on Gold Nanoparticles for Sensitive Detection of ATP. Molecules, 2018, 23, 2494.	3.8	5
85	Surface chemistry of tube-in-tube nanostructured cuprous sulfide@carbon in catalytical polysulfide conversion. Journal of Materials Chemistry A, 2019, 7, 12815-12824.	10.3	5
86	Preparation of LiFePO ₄ Powders by Ultrasonic Spray Drying Method and Their Memory Effect. Materials, 2021, 14, 3193.	2.9	5
87	Efficient optimization of nickel-cerium interface by constructing ethylene glycol ligand environment for fast water oxidation reaction kinetics. Science China Materials, 2020, 63, 1731-1740.	6.3	5
88	Self-recycling of sewage sludge as a coagulant and mechanism in sewage sludge dewatering. Journal of Material Cycles and Waste Management, 2020, 22, 1867-1876.	3.0	4
89	Uniform Near-Spherical Nanoscale Silver Films for Surface-Enhanced Raman Spectroscopy Sensing. ACS Applied Nano Materials, 2020, 3, 2008-2015.	5.0	4
90	Pyrolysis of long chain hydrocarbon-based plastics via self-exothermic effects: The origin and influential factors of exothermic processes. Journal of Hazardous Materials, 2022, 424, 127476.	12.4	4

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91	Relieving the Reaction Heterogeneity at the Subparticle Scale in Ni-Rich Cathode Materials with Boosted Cyclability. ACS Applied Materials & Interfaces, 2022, 14, 6729-6739.	8.0	4
92	Fabrication of Single-Particle Microelectrodes and Their Electrochemical Properties. ACS Applied Materials & Interfaces, 2022, 14, 20981-20987.	8.0	4
93	Electrochemical Oscillation during Galvanostatic Charging of LiCrTiO ₄ in Li-Ion Batteries. Materials, 2021, 14, 3624.	2.9	3
94	Highly dispersed Ag nanoparticles embedded in alumina nanobelts as excellent surface-enhanced Raman scattering substrates. RSC Advances, 2016, 6, 8580-8583.	3.6	2
95	Highly sensitive self-complementary DNA nanoswitches triggered by polyelectrolytes. Nanoscale, 2016, 8, 464-470.	5.6	2
96	Voltage control of millimeter-wave ferromagnetic resonance in multiferroic heterostructures thin films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126639.	2.1	2
97	High-Temperature Treatment to Improve the Capacity of LiBC Anode Material in Li-ion Battery. Frontiers in Energy Research, 2020, 8, .	2.3	2
98	Binder-Free Thin-Film Electrode Fabricated by Spray Drying Method: A Case of LiFePO ₄ . Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	2.1	2
99	Understanding the interlayer rearrangement toward enhanced lithium storage for LiBC anode. Chemical Communications, 2021, 57, 12492-12495.	4.1	1
100	Automated retinal layer segmentation in optical coherence tomography images with intraretinal fluid. Journal of Innovative Optical Health Sciences, 2022, 15, .	1.0	1
101	Application of three-electrode technology in Li ₄ Ti ₅ O ₁₂ electrochemical oscillation system. Journal of Electroanalytical Chemistry, 2022, 918, 116494.	3.8	1
102	Low-temperature sintering and magnetic properties of CoTi dopant barium ferrites with Bi ₂ O ₃ addition. AIP Conference Proceedings, 2018, , .	0.4	0
103	Surface Roughness-Governed Shape Stability of the Coal Fly Ash-Based Phase Change Material: Molten Salt Processing and Thermal Properties. Energies, 2021, 14, 1427.	3.1	0
104	Thermal behaviors and kinetics for cellulose pyrolysis using CexZr1-x-T catalysts. Biomass Conversion and Biorefinery, 2024, 14, 4041-4053.	4.6	0