Ying Yao

List of Publications by Year
in descending order

40 papers	6,972 citations	218677 26 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	7657 citing authors

#	Article	IF	Citations
1	Burning magnesium in carbon dioxide for highly effective phosphate removal. , 2021, 3, 330-337.		4
2	A universal method to fabricating porous carbon for Li-O2 battery. Nano Energy, 2021, 82, 105782.	16.0	42
3	Effect of Nitrogen Dopant Forms of Biochar Cathode on the Discharge Mechanism of Li-O₂ Battery. Journal of the Electrochemical Society, 2021, 168, 090517.	2.9	2
4	Recycling supercapacitor activated carbons for adsorption of silver (I) and chromium (VI) ions from aqueous solutions. Chemosphere, 2020, 238, 124638.	8.2	47
5	From Black Liquor to Green Energy Resource: Positive Electrode Materials for Liâ€"O₂ Battery with High Capacity and Long Cycle Life. ACS Applied Materials & Interfaces, 2020, 12, 16521-16530.	8.0	14
6	Optimization of oxygen electrode combined with soluble catalyst to enhance the performance of lithiumâ€"oxygen battery. Energy Storage Materials, 2020, 28, 73-81.	18.0	12
7	Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. Chemical Reviews, 2020, 120, 7020-7063.	47.7	957
8	Biochars preparation from waste sludge and composts under different carbonization conditions and their Pb(II) adsorption behaviors. Water Science and Technology, 2019, 80, 1063-1075.	2.5	9
9	Effect of the Activation Process on the Microstructure and Electrochemical Properties of N-Doped Carbon Cathodes in Liâ€"O₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 34997-35004.	8.0	19
10	A green and effective room-temperature recycling process of LiFePO4 cathode materials for lithium-ion batteries. Waste Management, 2019, 85, 437-444.	7.4	110
11	Removal of sulfamethoxazole (SMX) and sulfapyridine (SPY) from aqueous solutions by biochars derived from anaerobically digested bagasse. Environmental Science and Pollution Research, 2018, 25, 25659-25667.	5.3	84
12	Solvent-Free Synthesis of N/S-Codoped Hierarchically Porous Carbon Materials from Protic Ionic Liquids for Temperature-Resistant, Flexible Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 13494-13503.	6.7	48
13	Self-Nitrogen-Doped Carbon from Plant Waste as an Oxygen Electrode Material with Exceptional Capacity and Cycling Stability for Lithiumâ€"Oxygen Batteries. ACS Applied Materials & Interfaces, 2018, 10, 32212-32219.	8.0	38
14	Facile low-temperature one-step synthesis of pomelo peel biochar under air atmosphere and its adsorption behaviors for Ag(I) and Pb(II). Science of the Total Environment, 2018, 640-641, 73-79.	8.0	86
15	New Application of Waste Citrus Maxima Peel-Derived Carbon as an Oxygen Electrode Material for Lithium Oxygen Batteries. ACS Applied Materials & Interfaces, 2018, 10, 32058-32066.	8.0	25
16	A Chemical Precipitation Method Preparing Hollowâ€"Coreâ€"Shell Heterostructures Based on the Prussian Blue Analogs as Cathode for Sodiumâ€Ion Batteries. Small, 2018, 14, e1801246.	10.0	104
17	Kinetics Tuning the Electrochemistry of Lithium Dendrites Formation in Lithium Batteries through Electrolytes. ACS Applied Materials & Interfaces, 2017, 9, 7003-7008.	8.0	76
18	Ultralong Cycle Life Achieved by a Natural Plant: <i>Miscanthus Ã— giganteus</i> for Lithium Oxygen Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4382-4390.	8.0	24

#	ARTICLE	IF	CITATIONS
19	Does heavy metal hurt in the secondary battery production sites? The case study of occupational risk from Yangtze River Delta, China. Human and Ecological Risk Assessment (HERA), 2017, 23, 1285-1299.	3.4	1
20	Turning Waste Chemicals into Wealthâ€"A New Approach To Synthesize Efficient Cathode Material for an Liâ€"O₂ Battery. ACS Applied Materials & Interfaces, 2017, 9, 31907-31912.	8.0	21
21	Double Soft-Template Synthesis of Nitrogen/Sulfur-Codoped Hierarchically Porous Carbon Materials Derived from Protic Ionic Liquid for Supercapacitor. ACS Applied Materials & Interfaces, 2017, 9, 26088-26095.	8.0	142
22	Preparation of MnO₂-Modified Graphite Sorbents from Spent Li-Ion Batteries for the Treatment of Water Contaminated by Lead, Cadmium, and Silver. ACS Applied Materials & Interfaces, 2017, 9, 25369-25376.	8.0	94
23	Quantifying the environmental impact of a Li-rich high-capacity cathode material in electric vehicles via life cycle assessment. Environmental Science and Pollution Research, 2017, 24, 1251-1260.	5.3	26
24	Underestimation of phosphorus fraction change in the supernatant after phosphorus adsorption onto iron oxides and iron oxideâ€"natural organic matter complexes. Journal of Environmental Sciences, 2017, 55, 197-205.	6.1	23
25	Synthesis of Mg-Decorated Carbon Nanocomposites from MesoCarbon MicroBeads (MCMB) Graphite: Application for Wastewater Treatment. ACS Omega, 2016, 1, 417-423.	3.5	20
26	Mesocarbon Microbead Carbon-Supported Magnesium Hydroxide Nanoparticles: Turning Spent Li-ion Battery Anode into a Highly Efficient Phosphate Adsorbent for Wastewater Treatment. ACS Applied Materials & Interfaces, 2016, 8, 21315-21325.	8.0	88
27	Freestanding three-dimensional coreâ€"shell nanoarrays for lithium-ion battery anodes. Nature Communications, 2016, 7, 11774.	12.8	143
28	Mg-Enriched Engineered Carbon from Lithium-Ion Battery Anode for Phosphate Removal. ACS Applied Materials & Interfaces, 2016, 8, 2905-2909.	8.0	40
29	Preliminary investigation of phosphorus adsorption onto two types of iron oxide-organic matter complexes. Journal of Environmental Sciences, 2016, 42, 152-162.	6.1	102
30	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. Critical Reviews in Environmental Science and Technology, 2016, 46, 406-433.	12.8	945
31	Optimization for electrochemical redox performance of Li+/Li couple based on steady-state polarization curve. Electrochimica Acta, 2015, 176, 836-844.	5.2	6
32	Engineered Biochar from Biofuel Residue: Characterization and Its Silver Removal Potential. ACS Applied Materials & Interfaces, 2015, 7, 10634-10640.	8.0	98
33	Naturally derived nanostructured materials from biomass for rechargeable lithium/sodium batteries. Nano Energy, 2015, 17, 91-103.	16.0	135
34	Engineered carbon (biochar) prepared by direct pyrolysis of Mg-accumulated tomato tissues: Characterization and phosphate removal potential. Bioresource Technology, 2013, 138, 8-13.	9.6	257
35	Engineered Biochar Reclaiming Phosphate from Aqueous Solutions: Mechanisms and Potential Application as a Slow-Release Fertilizer. Environmental Science & Technology, 2013, 47, 8700-8708.	10.0	595
36	Effect of biochar amendment on sorption and leaching of nitrate, ammonium, and phosphate in a sandy soil. Chemosphere, 2012, 89, 1467-1471.	8.2	713

#	Article	IF	Citations
37	Removal of heavy metals from aqueous solution by biochars derived from anaerobically digested biomass. Bioresource Technology, 2012, 110, 50-56.	9.6	627
38	Adsorption of sulfamethoxazole on biochar and its impact on reclaimed water irrigation. Journal of Hazardous Materials, 2012, 209-210, 408-413.	12.4	229
39	Biochar derived from anaerobically digested sugar beet tailings: Characterization and phosphate removal potential. Bioresource Technology, 2011, 102, 6273-6278.	9.6	495
40	Removal of phosphate from aqueous solution by biochar derived from anaerobically digested sugar beet tailings. Journal of Hazardous Materials, 2011, 190, 501-507.	12.4	471