

# Youguo Huang

## List of Publications by Year in descending order

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44  
papers

1,301  
citations

516710

16  
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361022

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44  
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44  
docs citations

44  
times ranked

1505  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progresses in Oxygen Reduction Reaction Electrocatalysts for Electrochemical Energy Applications. <i>Electrochemical Energy Reviews</i> , 2019, 2, 518-538.	25.5	176
2	FeSe <sub>2</sub> @C Microrods as a Superior Long-Life and High-Rate Anode for Sodium Ion Batteries. <i>ACS Nano</i> , 2020, 14, 17683-17692.	14.6	140
3	Insight of a Phase Compatible Surface Coating for Long-Durable Li-Rich Layered Oxide Cathode. <i>Advanced Energy Materials</i> , 2019, 9, 1901795.	19.5	129
4	Phase Compatible NiFe <sub>2</sub> O <sub>4</sub> Coating Tunes Oxygen Redox in Li-Rich Layered Oxide. <i>ACS Nano</i> , 2021, 15, 11607-11618.	14.6	95
5	Three-Dimension Hierarchical Al <sub>2</sub> O <sub>3</sub> Nanosheets Wrapped LiMn <sub>2</sub> O <sub>4</sub> with Enhanced Cycling Stability as Cathode Material for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21656-21665.	8.0	86
6	Highly efficient and durable aqueous electrocatalytic reduction of CO <sub>2</sub> to HCOOH with a novel bismuth-MOF: experimental and DFT studies. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9776-9787.	10.3	73
7	A green, efficient, closed-loop direct regeneration technology for reconstructing of the LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode material from spent lithium-ion batteries. <i>Journal of Hazardous Materials</i> , 2021, 410, 124610.	12.4	72
8	Constructing an interface synergistic effect from a SnS/MoS <sub>2</sub> heterojunction decorating N, S co-doped carbon nanosheets with enhanced sodium ion storage performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22593-22600.	10.3	58
9	Stable surface construction of the Ni-rich LiNi <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> O <sub>2</sub> cathode material for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21649-21660.	10.3	54
10	Innovative Electrochemical Strategy to Recovery of Cathode and Efficient Lithium Leaching from Spent Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4767-4776.	5.1	54
11	Constructing Flexible All-Solid-State Supercapacitors from 3D Nanosheets Active Bricks via 3D Manufacturing Technology: A Perspective Review. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	33
12	Novel Bi, BiSn, Bi <sub>2</sub> Sn, Bi <sub>3</sub> Sn, and Bi <sub>4</sub> Sn Catalysts for Efficient Electroreduction of CO <sub>2</sub> to Formic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 6806-6814.	3.7	32
13	Prepotassiated V <sub>2</sub> O <sub>5</sub> as the Cathode Material for High-Voltage Potassium-Ion Batteries. <i>Energy Technology</i> , 2020, 8, 1900796.	3.8	27
14	Electrospray synthesis of nano-Si encapsulated in graphite/carbon microplates as robust anodes for high performance lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 679-687.	4.9	25
15	Stabilized Cathode Interphase for Enhancing Electrochemical Performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> -Based Lithium-Ion Battery via <i>cis</i> -1,2,3,6-Tetrahydrophthalic Anhydride. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18314-18323.	8.0	21
16	Microwave-Assisted Preparation of Hierarchical N and O Co-Doped Corn-Cob-Derived Activated Carbon for a High-Performance Supercapacitor. <i>Energy &amp; Fuels</i> , 2021, 35, 8334-8344.	5.1	19
17	F co-doping behavior of LiFePO <sub>4</sub> /C nanocomposites for high-rate lithium-ion batteries. <i>New Journal of Chemistry</i> , 2021, 45, 5695-5703.	2.8	18
18	Ultrathin Al <sub>2</sub> O <sub>3</sub> layer modified LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> with Al-doping for high performance lithium ion batteries. <i>Ionics</i> , 2020, 26, 2147-2156.	2.4	15

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19	Enhanced electrochemical performance of $\text{LiMn}_{2}\text{O}_{4}$ cathode with a $\text{Li}_{0.34}\text{La}_{0.51}\text{TiO}_{3}$ -coated layer. RSC Advances, 2015, 5, 17592-17600.	3.6	14
20	Control of the interface graphitized/amorphous carbon of biomass-derived carbon microspheres for symmetric supercapacitors. Nanoscale Advances, 2021, 3, 4858-4865.	4.6	14
21	Hierarchical $\text{Fe}_{2}\text{O}_{3}$ @ $\text{MoS}_{2}$ /C Nanorods as Anode Materials for Sodium Ion Batteries with High Cycle Stability. ACS Applied Energy Materials, 2021, 4, 3757-3765.	5.1	12
22	Phosphorus/nitrogen co-doped and bimetallic MOF-derived cathode for all-solid-state rechargeable zinc-air batteries. RSC Advances, 2020, 10, 33327-33333.	3.6	11
23	Sr-Based Sub/Surface Integrated Layer and Bulk Doping to Enhance High-Voltage Cycling of a Ni-Rich Cathode Material. ACS Sustainable Chemistry and Engineering, 2022, 10, 7883-7895.	6.7	11
24	Electroless plating of a $\text{Sn-Ni}$ /graphite sheet composite with improved cyclability as an anode material for lithium ion batteries. RSC Advances, 2018, 8, 15427-15435.	3.6	10
25	Enhancing the Electrochemical Performance of a High-Voltage $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_{4}$ Cathode in a Carbonate-Based Electrolyte with a Novel and Low-Cost Functional Additive. Chemistry - A European Journal, 2020, 26, 12233-12241.	3.3	10
26	Application of $\text{H}_{4}\text{P}_{2}\text{O}_{7}$ as leaching acid in one-step selective recovery for metals from spent $\text{LiFePO}_{4}$ batteries. Ionics, 2021, 27, 5127-5135.	2.4	10
27	Boron and Nitrogen Co-doped Molybdenum Carbide Nanostructures for Oxygen Reduction Electrocatalysis. ACS Applied Nano Materials, 2021, 4, 8897-8905.	5.0	9
28	Toward Enhanced Electrochemical Performance by Investigation of the Electrochemical Reconstruction Mechanism in $\text{Co}_{2}\text{V}_{2}\text{O}_{7}$ Hexagonal Nanosheets for Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 8106-8114.	8.0	9
29	Facile synthesis of $\text{Sn/MoS}_{2}$ /C composite as an anode material for lithium-ion batteries with outstanding performance. New Journal of Chemistry, 2016, 40, 1263-1268.	2.8	8
30	Bifunctional Surface Coating of $\text{LiAlO}_{2}$ / $\text{Si}_{1-x}\text{Al}_x\text{O}_{2}$ Hybrid Layer on Ni-Rich Cathode Materials for High Performance Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 8951-8961.	6.7	8
31	Synergy ascension of $\text{SnS/MoS}_{2}$ binary metal sulfides on initial coulombic efficiency and stable capacity for lithium storage. RSC Advances, 2021, 11, 17332-17339.	3.6	6
32	Zinc-assisted mechanochemical coating of a reduced graphene oxide thin layer on silicon microparticles to achieve efficient lithium-ion battery anodes. Sustainable Energy and Fuels, 2019, 3, 1258-1268.	4.9	5
33	Synthesis of $\text{FeS}$ Nanoparticles Embedded in $\text{MoS}_{2}$ /C Nanosheets as High-Performance Anode Material for Lithium-Ion Batteries. Energy Technology, 2019, 7, 1801132.	3.8	5
34	Phosphorization-Introduced Defect-Rich Phosphorus-Doped $\text{Co}_{3}\text{O}_{4}$ with Propelling Adsorption-Catalysis Transformation of Polysulfide. Energy & Fuels, 2022, 36, 3339-3346.	5.1	5
35	Ultra-high-voltage capacitor based on aluminum electrolytic-electrochemical hybrid electrodes. Journal of Materials Science, 2018, 53, 6842-6849.	3.7	4
36	Short-range amorphous carbon nanosheets for oxygen reduction electrocatalysis. Nanoscale Advances, 2020, 2, 5769-5776.	4.6	4

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37	Diatomite waste derived N-doped porous carbon for applications in the oxygen reduction reaction and supercapacitors. <i>Nanoscale Advances</i> , 2021, 3, 3860-3866.	4.6	4
38	Strongly Coupled MnO <sub>2</sub> Nanosheets/Silver Nanoparticles Hierarchical Spheres for Efficient Oxygen Reduction Reaction Electrocatalysis. <i>Energy &amp; Fuels</i> , 2021, 35, 16829-16836.	5.1	4
39	Phenylamine-Functionalized Graphene-Copper Composites with High Thermal Conductivity: Implications for Thermal Dissipation. <i>ACS Applied Nano Materials</i> , 2021, 4, 12170-12179.	5.0	4
40	Preparation of graphene/copper composites with a thiophenol molecular junction for thermal conduction application. <i>New Journal of Chemistry</i> , 2022, 46, 10107-10116.	2.8	3
41	TiO <sub>2</sub> Nanosheet-Redox Graphene Oxide/Sulphur Cathode for High-Performance Lithium-Sulphur Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1715-1722.	0.9	1
42	Interface-tuned Mo-based nanospheres for efficient oxygen reduction and hydrogen evolution catalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 6713-6722.	4.1	1
43	High-efficiency one-step microwave method for high-performance biomass-based hierarchical porous carbon. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3827-3837.	4.6	1
44	Nickel Acetate-Assisted Graphitization of Porous Activated Carbon at Low Temperature for Supercapacitors With High Performances. <i>Frontiers in Chemistry</i> , 2022, 10, 828381.	3.6	1