

Lei Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

876
citations

17
h-index

29
g-index

32
ext. papers

1,532
ext. citations

12
avg, IF

5.38
L-index

#	Paper	IF	Citations
32	Corrosion Chemistry of Electrocatalysts.. <i>Advanced Materials</i> , 2022 , e2200840	24	5
31	Scalable Molten Salt Synthesis of Platinum Alloys Planted in Metal-Nitrogen-Graphene for Efficient Oxygen Reduction. <i>Angewandte Chemie</i> , 2022 , 134,	3.6	4
30	Rational design and synthesis of one-dimensional platinum-based nanostructures for oxygen-reduction electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1459-1472	11.3	19
29	Continuous nitrogen-doped carbon nanotube matrix for boosting oxygen electrocatalysis in rechargeable Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2021 , 55, 183-189	12	70
28	Highly stable Pt-Co nanodendrite in nanoframe with Pt skin structured catalyst for oxygen reduction electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119460	21.8	44
27	Transition metal/carbon hybrids for oxygen electrocatalysis in rechargeable zinc-air batteries. <i>EcoMat</i> , 2021 , 3, e12067	9.4	18
26	Advanced Oxygen Electrocatalysis in Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2007602	15.6	39
25	Advanced Platinum-Based Oxygen Reduction Electrocatalysts for Fuel Cells. <i>Accounts of Chemical Research</i> , 2021 , 54, 311-322	24.3	86
24	Engineering 2D Photocatalysts toward Carbon Dioxide Reduction. <i>Advanced Energy Materials</i> , 2021 , 11, 2003159	21.8	41
23	Oxygen Reduction Electrocatalysts toward Practical Fuel Cells: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17832-17852	16.4	67
22	Oxygen Reduction Electrocatalysts toward Practical Fuel Cells: Progress and Perspectives. <i>Angewandte Chemie</i> , 2021 , 133, 17976-17996	3.6	16
21	Electrospinning Synthesis of Self-Standing Cobalt/Nanocarbon Hybrid Membrane for Long-Life Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2021 , 2105021	15.6	13
20	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25530-25537	16.4	17
19	Boosting Oxygen Reduction via Integrated Construction and Synergistic Catalysis of Porous Platinum Alloy and Defective Graphitic Carbon. <i>Angewandte Chemie</i> , 2021 , 133, 25734	3.6	2
18	Study on the performance of HNO-modified biochar for enhanced medium temperature anaerobic digestion of food waste. <i>Waste Management</i> , 2021 , 135, 338-346	8.6	3
17	Exfoliated Ultrathin ZnIn S Nanosheets with Abundant Zinc Vacancies for Enhanced CO Electroreduction to Formate. <i>ChemSusChem</i> , 2021 , 14, 852-859	8.3	16
16	Scalable Molten Salt Synthesis of Platinum Alloys Planted in Metal-Nitrogen-Graphene for Efficient Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	10

15	Well-connection of micro-platinum and cobalt oxide flower array with optimized water dissociation and hydrogen recombination for efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2020 , 398, 125669	14.7	18
14	Synthesis and Application of Platinum-based Hollow Nanoframes for Direct Alcohol Fuel Cells. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2009035-0	3.8	7
13	Highly efficient Pt-Co alloy hollow spheres with ultra-thin shells synthesized via Co-B-O complex as intermediates for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 381, 385-394	7.3	8
12	Recent Progress on Two-dimensional Electrocatalysis. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 611-621	2.2	84
11	Cross-double dumbbell-like PtNi nanostructures with enhanced catalytic performance toward the reactions of oxygen reduction and methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 277-283	21.8	98
10	Ultrahigh energy density asymmetric electrochemical capacitors based on flower-like ZnO/Co ₃ O ₄ nanobundle arrays and stereotaxically constricted graphene. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1273-1280	13	34
9	A Facile Method to Synthesize PtNi Octahedral Nanoparticles with Porous and Open Structure Features for Enhanced Oxygen Reduction Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8109-8116	8.3	8
8	Molybdenum-modified and vertex-reinforced quaternary hexapod nano-skeletons as efficient electrocatalysts for methanol oxidation and oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117974	21.8	24
7	The controllable growth of PtCuRh rhombic dodecahedral nanoframes as efficient catalysts for alcohol electrochemical oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18619-18625	13	21
6	Atomic Platinum Skin under Synergy of Cobalt for Enhanced Methanol Oxidation Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43716-43722	9.5	11
5	Two-step etching fabrication of tunable ternary rhombic dodecahedral nanoframes for enhanced oxygen reduction electrocatalysis. <i>Journal of Power Sources</i> , 2018 , 406, 42-49	8.9	22
4	High-Performance Asymmetric Supercapacitor Based on Hierarchical NiMn ₂ O ₄ @CoS CoreShell Microspheres and Stereotaxically Constricted Graphene. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16933-16940	8.3	39
3	Facile Fabrication of Radial PtCo Nanodendrites for Enhanced Methanol Oxidation Electrocatalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5019-5026	5.6	19
2	PtNi alloy hyperbranched nanostructures with enhanced catalytic performance towards oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18436-18443	6.7	11
1	Coordinatively Unsaturated PtCo Flowers Assembled with Ultrathin Nanosheets for Enhanced Oxygen Reduction. <i>ACS Catalysis</i> , 6478-6485	13.1	2