

Wenzhen Li

List of Publications by Year in descending order

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51
papers

3,858
citations

126907

33
h-index

175258

52
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56
all docs

56
docs citations

56
times ranked

5163
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-structured Pt@Fe/C as cathode catalyst in direct methanol fuel cell. <i>Electrochimica Acta</i> , 2004, 49, 1045-1055.	5.2	297
2	Pd@Ni electrocatalysts for efficient ethanol oxidation reaction in alkaline electrolyte. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12686-12697.	7.1	288
3	Electrocatalytic Oxygen Evolution over Supported Small Amorphous Ni@Fe Nanoparticles in Alkaline Electrolyte. <i>Langmuir</i> , 2014, 30, 7893-7901.	3.5	234
4	Electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid on supported Au and Pd bimetallic nanoparticles. <i>Green Chemistry</i> , 2014, 16, 3778-3786.	9.0	217
5	Mechanisms of Furfural Reduction on Metal Electrodes: Distinguishing Pathways for Selective Hydrogenation of Bioderived Oxygenates. <i>Journal of the American Chemical Society</i> , 2017, 139, 14120-14128.	13.7	212
6	PdAg/CNT catalyzed alcohol oxidation reaction for high-performance anion exchange membrane direct alcohol fuel cell (alcohol = methanol, ethanol, ethylene glycol and glycerol). <i>Applied Catalysis B: Environmental</i> , 2016, 199, 494-503.	20.2	154
7	BCC-Phased PdCu Alloy as a Highly Active Electrocatalyst for Hydrogen Oxidation in Alkaline Electrolytes. <i>Journal of the American Chemical Society</i> , 2018, 140, 16580-16588.	13.7	149
8	Electrocatalytic Nitrate Reduction on Oxide-Derived Silver with Tunable Selectivity to Nitrite and Ammonia. <i>ACS Catalysis</i> , 2021, 11, 8431-8442.	11.2	125
9	Electrocatalytic oxidation of ethylene glycol (EG) on supported Pt and Au catalysts in alkaline media: Reaction pathway investigation in three-electrode cell and fuel cell reactors. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 85-94.	20.2	119
10	Paired electrocatalytic hydrogenation and oxidation of 5-(hydroxymethyl)furfural for efficient production of biomass-derived monomers. <i>Green Chemistry</i> , 2019, 21, 6210-6219.	9.0	116
11	Carbon nanotube supported PdAg nanoparticles for electrocatalytic oxidation of glycerol in anion exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 121-130.	20.2	110
12	Nanostructured WCx/CNTs as highly efficient support of electrocatalysts with low Pt loading for oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2010, 3, 1121.	30.8	106
13	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2011, 23, 1570-1577.	6.7	106
14	Electrocatalytic selective oxidation of glycerol to tartronate on Au/C anode catalysts in anion exchange membrane fuel cells with electricity cogeneration. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 360-368.	20.2	101
15	N- and S-doped mesoporous carbon as metal-free cathode catalysts for direct biorenewable alcohol fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 83-95.	10.3	101
16	Supported gold nanoparticles as anode catalyst for anion-exchange membrane-direct glycerol fuel cell (AEM-DGFC). <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9393-9401.	7.1	100
17	Investigation of the Interaction between Nafion Ionomer and Surface Functionalized Carbon Black Using Both Ultrasmall Angle X-ray Scattering and Cryo-TEM. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6530-6538.	8.0	89
18	Platinum nanoparticles supported on stacked-cup carbon nanofibers as electrocatalysts for proton exchange membrane fuel cell. <i>Carbon</i> , 2010, 48, 995-1003.	10.3	79

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19	Revealing nitrogen-containing species in commercial catalysts used for ammonia electrosynthesis. <i>Nature Catalysis</i> , 2020, 3, 1055-1061.	34.4	73
20	Surface dealloyed PtCo nanoparticles supported on carbon nanotube: facile synthesis and promising application for anion exchange membrane direct crude glycerol fuel cell. <i>Green Chemistry</i> , 2013, 15, 1133.	9.0	71
21	Integrated electrocatalytic processing of levulinic acid and formic acid to produce biofuel intermediate valeric acid. <i>Green Chemistry</i> , 2014, 16, 1305-1315.	9.0	69
22	Selective electro-oxidation of glycerol to tartronate or mesoxalate on Au nanoparticle catalyst via electrode potential tuning in anion-exchange membrane electro-catalytic flow reactor. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 871-878.	20.2	66
23	Three-Dimensional Phosphorus-Doped Graphitic-C ₃ N ₄ Self-Assembly with NH ₂ -Functionalized Carbon Composite Materials for Enhanced Oxygen Reduction Reaction. <i>Langmuir</i> , 2016, 32, 12569-12578.	3.5	66
24	Direct glycerol fuel cell with polytetrafluoroethylene (PTFE) thin film separator. <i>Renewable Energy</i> , 2017, 105, 647-655.	8.9	65
25	Electrocatalytic Reduction of CO ₂ to Small Organic Molecule Fuels on Metal Catalysts. <i>ACS Symposium Series</i> , 2010, , 55-76.	0.5	63
26	Preparation, structure and catalytic properties of magnetically separable Cu-Fe catalysts for glycerol hydrogenolysis. <i>Journal of Materials Chemistry</i> , 2012, 22, 16598.	6.7	62
27	Selective electro-conversion of glycerol to glycolate on carbon nanotube supported gold catalyst. <i>Green Chemistry</i> , 2012, 14, 2150.	9.0	61
28	Ultrafine Nickel Nanoparticles Encapsulated in N-Doped Carbon Promoting Hydrogen Oxidation Reaction in Alkaline Media. <i>ACS Catalysis</i> , 2021, 11, 7422-7428.	11.2	57
29	Comparison of Quinone-Based Catholytes for Aqueous Redox Flow Batteries and Demonstration of Long-Term Stability with Tetrasubstituted Quinones. <i>Advanced Energy Materials</i> , 2020, 10, 2000340.	19.5	42
30	Paired electrolysis of 5-(hydroxymethyl)furfural in flow cells with a high-performance oxide-derived silver cathode. <i>Green Chemistry</i> , 2021, 23, 5056-5063.	9.0	41
31	Hydrodeoxygenation of Dibenzofuran Over SBA-15 Supported Pt, Pd, and Ru Catalysts. <i>Catalysis Letters</i> , 2014, 144, 809-816.	2.6	39
32	Heterostructured Bismuth Vanadate/Cobalt Phosphate Photoelectrodes Promote TEMPO-Mediated Oxidation of 5-Hydroxymethylfurfural. <i>ChemElectroChem</i> , 2019, 6, 3387-3392.	3.4	39
33	Carbon supported Ag nanoparticles as high performance cathode catalyst for H ₂ /O ₂ anion exchange membrane fuel cell. <i>Frontiers in Chemistry</i> , 2013, 1, 16.	3.6	37
34	Lithium-mediated ammonia synthesis from water and nitrogen: a membrane-free approach enabled by an immiscible aqueous/organic hybrid electrolyte system. <i>Green Chemistry</i> , 2019, 21, 3839-3845.	9.0	30
35	Selective Oxidation of 1,2-Propanediol in Alkaline Anion-Exchange Membrane Electrocatalytic Flow Reactors: Experimental and DFT Investigations. <i>ACS Catalysis</i> , 2015, 5, 6926-6936.	11.2	29
36	Layer-controlled synthesis of graphene-like MoS ₂ from single source organometallic precursor for Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 16716.	3.6	28

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37	Metal-Free Catalyst-Free Carbohydrazide Fuel Cells with Three-Dimensional Graphene Anodes. <i>ChemSusChem</i> , 2015, 8, 1147-1150.	6.8	27
38	Paired and Tandem Electrochemical Conversion of 5-(Hydroxymethyl)furfural Using Membrane-Electrode Assembly-Based Electrolytic Systems. <i>ChemElectroChem</i> , 2021, 8, 2817-2824.	3.4	24
39	Bismuth Nanosheets Derived by In Situ Morphology Transformation of Bismuth Oxides for Selective Electrochemical CO ₂ Reduction to Formate. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14210-14217.	8.0	24
40	Carbon nanotubes as catalysts for direct carbohydrazide fuel cells. <i>Carbon</i> , 2015, 89, 142-147.	10.3	19
41	Recent advances in paired electrolysis of biomass-derived compounds toward cogeneration of value-added chemicals and fuels. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100795.	4.8	19
42	Electrocatalysts development for hydrogen oxidation reaction in alkaline media: From mechanism understanding to materials design. <i>Chinese Journal of Catalysis</i> , 2021, 42, 2094-2104.	14.0	15
43	Electrocatalytic oxidation of meso-erythritol in anion-exchange membrane alkaline fuel cell on PdAg/CNT catalyst. <i>Journal of Power Sources</i> , 2018, 375, 345-350.	7.8	13
44	Precisely Controlled Synthesis of Hybrid Intermetallic Metal Nanoparticles for Nitrate Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 0, , .	8.0	13
45	Highly Efficient Electrochemical Synthesis of Hydrogen Peroxide (H ₂ O ₂) Enabled by Amino Acid Glycine-Derived Metal-Free Nitrogen-Doped Ordered Mesoporous Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5453-5462.	6.7	13
46	Co ₉ S ₈ activated N/S co-doped carbon tubes in situ grown on carbon nanofibers for efficient oxygen reduction. <i>RSC Advances</i> , 2017, 7, 34763-34769.	3.6	11
47	Electrocatalytic generation of hydrogen peroxide on cobalt nanoparticles embedded in nitrogen-doped carbon. <i>Chinese Journal of Catalysis</i> , 2021, 42, 2296-2305.	14.0	10
48	Direct fast pyrolysis bio-oil fuel cell. <i>Fuel</i> , 2016, 185, 85-93.	6.4	8
49	Next-Generation High-Performance Bio-Based Naphthalate Polymers Derived from Malic Acid for Sustainable Food Packaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2624-2633.	6.7	8
50	Technoeconomic Analysis of a Hybrid Biomass Thermochemical and Electrochemical Conversion System. <i>Energy Technology</i> , 2018, 6, 178-187.	3.8	6
51	Exploring Electrochemical Flow-Cell Designs and Parameters for CO ₂ Reduction to Formate under Industrially Relevant Conditions. <i>Journal of the Electrochemical Society</i> , 2022, 169, 054511.	2.9	3