

Junhua Jiang

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55
papers

2,121
citations

22
h-index

45
g-index

62
ext. papers

2,264
ext. citations

4.9
avg, IF

5.29
L-index

#	Paper	IF	Citations
55	Electrochemical supercapacitor material based on manganese oxide: preparation and characterization. <i>Electrochimica Acta</i> , 2002 , 47, 2381-2386	6.7	359
54	Electrooxidation of small organic molecules on mesoporous precious metal catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 543, 187-199	4.1	171
53	Highly ordered macroporous woody biochar with ultra-high carbon content as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2013 , 113, 481-489	6.7	170
52	High capacitive performance of exfoliated biochar nanosheets from biomass waste corn cob. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2903-2913	13	166
51	Nanostructured platinum as an electrocatalyst for the electrooxidation of formic acid. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 520, 64-70	4.1	155
50	Prospective direct formate fuel cell. <i>Electrochemistry Communications</i> , 2012 , 18, 41-43	5.1	94
49	Electrooxidation of small organic molecules on mesoporous precious metal catalysts I: CO and methanol on platinum. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 533, 153-165	4.1	82
48	Investigations of fuel cell reactions at the composite microelectrode solid polymer electrolyte interface. I. Hydrogen oxidation at the nanostructured Pt Nafion [®] membrane interface. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 567, 123-137	4.1	76
47	Mesoporous platinum as a catalyst for oxygen electroreduction and methanol electrooxidation. <i>Chemical Engineering Journal</i> , 2003 , 93, 81-90	14.7	75
46	Thickness effects of a carbon-supported platinum catalyst layer on the electrochemical reduction of oxygen in sulfuric acid solution. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 577, 107-115	4.1	70
45	Mesoporous Microspheres Composed of PtRu Alloy. <i>Chemistry of Materials</i> , 2004 , 16, 1362-1367	9.6	62
44	Electrocatalytic properties of nanoporous PtRu alloy towards the electrooxidation of formic acid. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 630, 10-18	4.1	41
43	Direct evidence of a triple-path mechanism of formate electrooxidation on Pt black in alkaline media at varying temperature. Part I: The electrochemical studies. <i>Electrochimica Acta</i> , 2013 , 104, 124-133	6.7	38
42	Oxygen Reduction Studies of Templated Mesoporous Platinum Catalysts. <i>Electrochemical and Solid-State Letters</i> , 1999 , 3, 559		38
41	Lignin-derived electrochemical energy materials and systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2020 , 14, 650-672	5.3	37
40	Mini-chunk biochar supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2014 , 44, 1145-1151	2.6	37
39	High-throughput screening of fuel cell electrocatalysts. <i>Applied Surface Science</i> , 2006 , 252, 2573-2579	6.7	37

38	Electrocatalytic properties of CuZr amorphous alloy towards the electrochemical hydrogenation of nitrobenzene. <i>Journal of Alloys and Compounds</i> , 2003 , 354, 248-258	5.7	33
37	Solid polymer electrolyte membrane composite microelectrode investigations of fuel cell reactions. II: voltammetric study of methanol oxidation at the nanostructured platinum microelectrode Nafion [®] membrane interface. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 576, 223-236	4.1	27
36	High Temperature Monolithic Biochar Supercapacitor Using Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5043-H5048	3.9	26
35	Synthesis of highly active nanostructured PtRu electrocatalyst with three-dimensional mesoporous silica template. <i>Electrochemistry Communications</i> , 2009 , 11, 623-626	5.1	25
34	Novel electrocatalyst for the oxygen reduction reaction in acidic media using electrochemically activated iron 2,6-bis(imino)-pyridyl complexes. <i>Electrochimica Acta</i> , 2002 , 47, 1967-1973	6.7	23
33	Probing anodic reaction kinetics and interfacial mass transport of a direct formic acid fuel cell using a nanostructured palladium-gold alloy microelectrode. <i>Electrochimica Acta</i> , 2009 , 54, 4545-4551	6.7	22
32	Promotion of PtIr and Pt catalytic activity towards ammonia electrooxidation through the modification of Zn. <i>Electrochemistry Communications</i> , 2017 , 75, 52-55	5.1	21
31	High activity and durability of Pt catalyst toward methanol electrooxidation in intermediate temperature alkaline media. <i>Journal of Power Sources</i> , 2012 , 209, 189-194	8.9	21
30	Fabrication of high-surface nanoporous gold microelectrode. <i>Electrochemistry Communications</i> , 2012 , 20, 157-159	5.1	20
29	Nanoporous gold microelectrode prepared from potential modulated electrochemical alloying-dealloying in ionic liquid. <i>Electrochimica Acta</i> , 2013 , 111, 114-119	6.7	18
28	The electrochemistry of platinum phthalocyanine microcrystals: I. Electrochemical behaviour in acetonitrile electrolytes. <i>Electrochimica Acta</i> , 2000 , 45, 2227-2239	6.7	17
27	Improving Electrochemical Sensitivity of Silver Electrodes for Nitrate Detection in Neutral and Base Media through Surface Nanostructuring. <i>Journal of the Electrochemical Society</i> , 2014 , 161, B3028-B3033 ³⁹	3.9	15
26	Electrochemical impedance studies of the undoping process of platinum phthalocyanine charge transfer microcrystals. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 490, 17-30	4.1	14
25	Improved Anodic Stripping Voltammetric Detection of Arsenic (III) Using Nanoporous Gold Microelectrode. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, S3024-S3029	2	12
24	Electrodeposition of highly alloyed quaternary PtPdRuOs catalyst with highly ordered nanostructure. <i>Electrochemistry Communications</i> , 2009 , 11, 1005-1008	5.1	12
23	SPE composite microdisk electrodes used in organic electrosynthesis. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 417, 89-93	4.1	12
22	The electrochemistry of platinum phthalocyanine microcrystals. IV. Temperature dependence of the electrochemical behaviour in non-aqueous solution. <i>Electrochimica Acta</i> , 2001 , 46, 3445-3456	6.7	9
21	Mass transport and kinetics of electrochemical oxygen reduction at nanostructured platinum electrode and solid polymer electrolyte membrane interface. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2571-2579	2.6	8

20	Nanopatterning palladium surface layers through electrochemical deposition and dissolution of zinc in ionic liquid. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12689-94	9.5	8
19	Nanostructuring a Gold Microelectrode through Electrochemical Alloying-Dealloying for Nitrite Detection. <i>ECS Electrochemistry Letters</i> , 2012 , 1, H21-H23		8
18	Nano-Roughening a Pt Disk Microelectrode via Electrochemical Alloying-Dealloying in Ionic Liquid Electrolyte. <i>Electroanalysis</i> , 2013 , 25, 2015-2020	3	7
17	Oxygen reduction reaction on a mini gas diffusion electrode. <i>Electrochimica Acta</i> , 2011 , 58, 717-722	6.7	7
16	The electrochemistry of platinum phthalocyanine microcrystals II: A microelectrode observation of nucleation-growth controlled solid-solid phase transformations in non-aqueous solvent. <i>Electrochimica Acta</i> , 2001 , 46, 1223-1231	6.7	7
15	Accelerated CO electrooxidation through a formate pathway in intermediate-temperature alkaline media. <i>Electrochemistry Communications</i> , 2012 , 20, 121-123	5.1	6
14	Nanostructured Platinum-iridium Alloy Microelectrode for Ammonia Determination. <i>Electroanalysis</i> , 2017 , 29, 2019-2026	3	5
13	Electrochemical crystallisation and characterisation of platinum phthalocyanine charge transfer salts in non-aqueous media. <i>Synthetic Metals</i> , 2000 , 114, 209-218	3.6	5
12	Fabrication of Uniform Nanoparticulate Gold through Potential-Modulated Electrochemical Deposition and Dissolution of Silver in Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2019 , 166, E521-E525	3.9	4
11	Copper-Assisted Etching of Gold through Electrochemical Deposition and Dissolution of Copper in Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D940-D945	3.9	4
10	Creation of Nanoporous Ag Surface Layers through a Two-Stage Electrochemical Deposition-Dissolution of Zn and Intercalation-Deintercalation of Chloride Ions in an Ionic Liquid Bath. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, N5084-N5088	2	3
9	Accelerated Electrochemical Oxidation of Small Organic Molecules in Hot Aqueous Base Solution. <i>ECS Transactions</i> , 2010 , 33, 1-10	1	3
8	An electrochemical impedance study of the electrochemical doping process of platinum phthalocyanine microcrystals in non-aqueous electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 514, 1-15	4.1	3
7	Promotion of the electrochemical hydrogenation of nitrobenzene at hydrogen storage alloys studied using a solid electrolyte method. <i>Journal of Applied Electrochemistry</i> , 2006 , 36, 733-738	2.6	2
6	Electronically conducting polymer of manganese halide complex bearing 2,6-bis(imino)pyridyl ligands. <i>Synthetic Metals</i> , 2002 , 128, 221-227	3.6	2
5	High-Pressure Electrochemical Hydrogen Purification Process Using a High-Temperature Polybenzimidazole (PBI) Membrane. <i>ECS Transactions</i> , 2010 , 28, 91-100	1	1
4	Review Electrolytic Metal Atoms Enabled Manufacturing of Nanostructured Sensor Electrodes. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037521	3.9	1
3	Free-Standing Mesoporous Biocarbon Papers Based High-Rate Supercapacitor. <i>Current Nanomaterials</i> , 2019 , 3, 178-189	1.3	

- 2 Temperature Tuned Reaction Pathways of CO Electrooxidation in Alkaline Media. *ECS Transactions*, **2012**, 45, 135-141 1
- 1 Intermediate-Temperature Alkaline Methanol Fuel Cell. *ECS Transactions*, **2012**, 41, 27-35 1