

# Junhua Jiang

## 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.

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 | Lignin-derived electrochemical energy materials and systems. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2020</b> , 14, 650-672   | 5.3 | 37        |
| 54 | Review Electrolytic Metal Atoms Enabled Manufacturing of Nanostructured Sensor Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 037521  | 3.9 | 1         |
| 53 | Free-Standing Mesoporous Biocarbon Papers Based High-Rate Supercapacitor. <i>Current Nanomaterials</i> , <b>2019</b> , 3, 178-189   | 1.3 |           |
| 52 | Fabrication of Uniform Nanoparticulate Gold through Potential-Modulated Electrochemical Deposition and Dissolution of Silver in Ionic Liquids. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, E521-E525   | 3.9 | 4         |
| 51 | Copper-Assisted Etching of Gold through Electrochemical Deposition and Dissolution of Copper in Ionic Liquids. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, D940-D945   | 3.9 | 4         |
| 50 | Promotion of PtIr and Pt catalytic activity towards ammonia electrooxidation through the modification of Zn. <i>Electrochemistry Communications</i> , <b>2017</b> , 75, 52-55   | 5.1 | 21        |
| 49 | High Temperature Monolithic Biochar Supercapacitor Using Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H5043-H5048   | 3.9 | 26        |
| 48 | Nanostructured Platinum-iridium Alloy Microelectrode for Ammonia Determination. <i>Electroanalysis</i> , <b>2017</b> , 29, 2019-2026  | 3   | 5         |
| 47 | Improved Anodic Stripping Voltammetric Detection of Arsenic (III) Using Nanoporous Gold Microelectrode. <i>ECS Journal of Solid State Science and Technology</i> , <b>2015</b> , 4, S3024-S3029   | 2   | 12        |
| 46 | High capacitive performance of exfoliated biochar nanosheets from biomass waste corn cob. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2903-2913  | 13  | 166       |
| 45 | 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> , <b>2015</b> , 4, N5084-N5088 | 2   | 3         |
| 44 | Mini-chunk biochar supercapacitors. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 1145-1151  | 2.6 | 37        |
| 43 | Improving Electrochemical Sensitivity of Silver Electrodes for Nitrate Detection in Neutral and Base Media through Surface Nanostructuring. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, B3028-B3033  | 3.9 | 15        |
| 42 | Highly ordered macroporous woody biochar with ultra-high carbon content as supercapacitor electrodes. <i>Electrochimica Acta</i> , <b>2013</b> , 113, 481-489   | 6.7 | 170       |
| 41 | Nanoporous gold microelectrode prepared from potential modulated electrochemical alloying dealloying in ionic liquid. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 114-119   | 6.7 | 18        |
| 40 | 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> , <b>2013</b> , 104, 124-133   | 6.7 | 38        |
| 39 | Nanopatterning palladium surface layers through electrochemical deposition and dissolution of zinc in ionic liquid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 12689-94   | 9.5 | 8         |

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|----|---|-----|----|
| 38 | Nano-Roughening a Pt Disk Microelectrode via Electrochemical Alloying-Dealloying in Ionic Liquid Electrolyte. <i>Electroanalysis</i> , <b>2013</b> , 25, 2015-2020  | 3   | 7  |
| 37 | Prospective direct formate fuel cell. <i>Electrochemistry Communications</i> , <b>2012</b> , 18, 41-43  | 5.1 | 94 |
| 36 | Accelerated CO electrooxidation through a formate pathway in intermediate-temperature alkaline media. <i>Electrochemistry Communications</i> , <b>2012</b> , 20, 121-123  | 5.1 | 6  |
| 35 | Fabrication of high-surface nanoporous gold microelectrode. <i>Electrochemistry Communications</i> , <b>2012</b> , 20, 157-159  | 5.1 | 20 |
| 34 | High activity and durability of Pt catalyst toward methanol electrooxidation in intermediate temperature alkaline media. <i>Journal of Power Sources</i> , <b>2012</b> , 209, 189-194   | 8.9 | 21 |
| 33 | 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> , <b>2012</b> , 16, 2571-2579 | 2.6 | 8  |
| 32 | Temperature Tuned Reaction Pathways of CO Electrooxidation in Alkaline Media. <i>ECS Transactions</i> , <b>2012</b> , 45, 135-141   | 1   |    |
| 31 | Nanostructuring a Gold Microelectrode through Electrochemical Alloying-Dealloying for Nitrite Detection. <i>ECS Electrochemistry Letters</i> , <b>2012</b> , 1, H21-H23   |     | 8  |
| 30 | Intermediate-Temperature Alkaline Methanol Fuel Cell. <i>ECS Transactions</i> , <b>2012</b> , 41, 27-35   | 1   |    |
| 29 | Oxygen reduction reaction on a mini gas diffusion electrode. <i>Electrochimica Acta</i> , <b>2011</b> , 58, 717-722   | 6.7 | 7  |
| 28 | High-Pressure Electrochemical Hydrogen Purification Process Using a High-Temperature Polybenzimidazole (PBI) Membrane. <i>ECS Transactions</i> , <b>2010</b> , 28, 91-100   | 1   | 1  |
| 27 | Accelerated Electrochemical Oxidation of Small Organic Molecules in Hot Aqueous Base Solution. <i>ECS Transactions</i> , <b>2010</b> , 33, 1-10   | 1   | 3  |
| 26 | Electrocatalytic properties of nanoporous PtRu alloy towards the electrooxidation of formic acid. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 630, 10-18  | 4.1 | 41 |
| 25 | Electrodeposition of highly alloyed quaternary PtPdRuOs catalyst with highly ordered nanostructure. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1005-1008  | 5.1 | 12 |
| 24 | Synthesis of highly active nanostructured PtRu electrocatalyst with three-dimensional mesoporous silica template. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 623-626  | 5.1 | 25 |
| 23 | 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> , <b>2009</b> , 54, 4545-4551              | 6.7 | 22 |
| 22 | High-throughput screening of fuel cell electrocatalysts. <i>Applied Surface Science</i> , <b>2006</b> , 252, 2573-2579  | 6.7 | 37 |
| 21 | Promotion of the electrochemical hydrogenation of nitrobenzene at hydrogen storage alloys studied using a solid electrolyte method. <i>Journal of Applied Electrochemistry</i> , <b>2006</b> , 36, 733-738                          | 2.6 | 2  |

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|----|--|------|-----|
| 20 | Solid polymer electrolyte membrane composite microelectrode investigations of fuel cell reactions. II: voltammetric study of methanol oxidation at the nanostructured platinum microelectrode Nafion <sup>®</sup> membrane interface. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 576, 223-236 | 4.1  | 27  |
| 19 | 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> , <b>2005</b> , 577, 107-115   | 4.1  | 70  |
| 18 | Investigations of fuel cell reactions at the composite microelectrode solid polymer electrolyte interface. I. Hydrogen oxidation at the nanostructured Pt Nafion <sup>®</sup> membrane interface. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 567, 123-137                                     | 4.1  | 76  |
| 17 | Mesoporous Microspheres Composed of PtRu Alloy. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 1362-1367  | 9.6  | 62  |
| 16 | Electrooxidation of small organic molecules on mesoporous precious metal catalysts. <i>Journal of Electroanalytical Chemistry</i> , <b>2003</b> , 543, 187-199   | 4.1  | 171 |
| 15 | Mesoporous platinum as a catalyst for oxygen electroreduction and methanol electrooxidation. <i>Chemical Engineering Journal</i> , <b>2003</b> , 93, 81-90   | 14.7 | 75  |
| 14 | Electrocatalytic properties of CuZr amorphous alloy towards the electrochemical hydrogenation of nitrobenzene. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 354, 248-258   | 5.7  | 33  |
| 13 | Electrochemical supercapacitor material based on manganese oxide: preparation and characterization. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 2381-2386   | 6.7  | 359 |
| 12 | Novel electrocatalyst for the oxygen reduction reaction in acidic media using electrochemically activated iron 2,6-bis(imino)-pyridyl complexes. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 1967-1973  | 6.7  | 23  |
| 11 | Nanostructured platinum as an electrocatalyst for the electrooxidation of formic acid. <i>Journal of Electroanalytical Chemistry</i> , <b>2002</b> , 520, 64-70  | 4.1  | 155 |
| 10 | Electrooxidation of small organic molecules on mesoporous precious metal catalysts I: CO and methanol on platinum. <i>Journal of Electroanalytical Chemistry</i> , <b>2002</b> , 533, 153-165  | 4.1  | 82  |
| 9  | Electronically conducting polymer of manganese halide complex bearing 2,6-bis(imino)pyridyl ligands. <i>Synthetic Metals</i> , <b>2002</b> , 128, 221-227  | 3.6  | 2   |
| 8  | The electrochemistry of platinum phthalocyanine microcrystals. IV. Temperature dependence of the electrochemical behaviour in non-aqueous solution. <i>Electrochimica Acta</i> , <b>2001</b> , 46, 3445-3456   | 6.7  | 9   |
| 7  | An electrochemical impedance study of the electrochemical doping process of platinum phthalocyanine microcrystals in non-aqueous electrolytes. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 514, 1-15   | 4.1  | 3   |
| 6  | 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> , <b>2001</b> , 46, 1223-1231  | 6.7  | 7   |
| 5  | The electrochemistry of platinum phthalocyanine microcrystals: I. Electrochemical behaviour in acetonitrile electrolytes. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 2227-2239   | 6.7  | 17  |
| 4  | Electrochemical impedance studies of the undoping process of platinum phthalocyanine charge transfer microcrystals. <i>Journal of Electroanalytical Chemistry</i> , <b>2000</b> , 490, 17-30   | 4.1  | 14  |
| 3  | Electrochemical crystallisation and characterisation of platinum phthalocyanine charge transfer salts in non-aqueous media. <i>Synthetic Metals</i> , <b>2000</b> , 114, 209-218   | 3.6  | 5   |

- 2 Oxygen Reduction Studies of Templated Mesoporous Platinum Catalysts. *Electrochemical and Solid-State Letters*, **1999**, 3, 559 38
- 1 SPE composite microdisk electrodes used in organic electrosynthesis. *Journal of Electroanalytical Chemistry*, **1996**, 417, 89-93 4.1 12