

Hongsen Wang

List of Publications by Citations

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31
papers

2,985
citations

21
h-index

32
g-index

32
ext. papers

3,419
ext. citations

11.2
avg, IF

5.22
L-index

#	Paper	IF	Citations
31	Structurally ordered intermetallic platinum-cobalt core-shell nanoparticles with enhanced activity and stability as oxygen reduction electrocatalysts. <i>Nature Materials</i> , 2013 , 12, 81-7	27	1467
30	Methanol oxidation on Pt, PtRu, and colloidal Pt electrocatalysts: a DEMS study of product formation. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 509, 163-169	4.1	191
29	Facile Synthesis of Carbon-Supported Pd@Co Core-Shell Nanoparticles as Oxygen Reduction Electrocatalysts and Their Enhanced Activity and Stability with Monolayer Pt Decoration. <i>Chemistry of Materials</i> , 2012 , 24, 2274-2281	9.6	154
28	Water oxidation catalysis by Co(II) impurities in Co(III)4O4 cubanes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17681-8	16.4	138
27	Highly stable and CO-tolerant Pt/Ti _{0.7} W _{0.3} O ₂ electrocatalyst for proton-exchange membrane fuel cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10218-20	16.4	113
26	A rechargeable NaClO ₂ /O ₂ battery enabled by stable nanoparticle hybrid electrolytes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17723-17729	13	79
25	In Situ X-ray Absorption Spectroscopy of a Synergistic Co-Mn Oxide Catalyst for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1463-1466	16.4	78
24	IrPdRu/C as H ₂ Oxidation Catalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6807-6810	16.4	77
23	CO and O ₂ evolution at high voltage cathode materials of Li-ion batteries: a differential electrochemical mass spectrometry study. <i>Analytical Chemistry</i> , 2014 , 86, 6197-201	7.8	72
22	DEMS Study on Methanol Oxidation at Poly- and Monocrystalline Platinum Electrodes: The Effect of Anion, Temperature, Surface Structure, Ru Adatom, and Potential. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7038-7048	3.8	72
21	Mechanistic Studies of Formate Oxidation on Platinum in Alkaline Medium. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5810-5820	3.8	69
20	Electrocatalytic mechanism and kinetics of SOMs oxidation on ordered PtPb and PtBi intermetallic compounds: DEMS and FTIRS study. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3739-51	3.6	58
19	Methanol electrooxidation on PtRu bulk alloys and carbon-supported PtRu nanoparticle catalysts: a quantitative DEMS study. <i>Langmuir</i> , 2009 , 25, 7725-35	4	53
18	Operando Methods in Electrocatalysis. <i>ACS Catalysis</i> , 2021 , 11, 1136-1178	13.1	49
17	Multifunctional Electrocatalysts: Ru _M (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. <i>ACS Catalysis</i> , 2020 , 10, 4608-4616	13.1	40
16	New double-band-electrode channel flow differential electrochemical mass spectrometry cell: application for detecting product formation during methanol electrooxidation. <i>Analytical Chemistry</i> , 2010 , 82, 4319-24	7.8	36
15	An electrochemical quartz crystal microbalance study of a prospective alkaline anion exchange membrane material for fuel cells: anion exchange dynamics and membrane swelling. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5309-22	16.4	34

14	Origin of Multiple Peaks in the Potentiodynamic Oxidation of CO Adlayers on Pt and Ru-Modified Pt Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1899-906	6.4	33
13	New Insights into the Mechanism and Kinetics of Adsorbed CO Electrooxidation on Platinum: Online Mass Spectrometry and Kinetic Monte Carlo Simulation Studies. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11040-11053	3.8	33
12	Rh and Rh Alloy Nanoparticles as Highly Active H ₂ Oxidation Catalysts for Alkaline Fuel Cells. <i>ACS Catalysis</i> , 2019 , 9, 5057-5062	13.1	30
11	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , 2022 ,	68.1	25
10	Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. <i>ACS Catalysis</i> , 2020 , 10, 770-776	13.1	20
9	Electrocatalysis of Direct Alcohol Fuel Cells: Quantitative DEMS Studies. <i>Structure and Bonding</i> , 2011 , 33-83	0.9	18
8	The Sodium-Oxygen/Carbon Dioxide Electrochemical Cell. <i>ChemSusChem</i> , 2016 , 9, 1600-6	8.3	13
7	Single-phase Ru ₁₀₀ MnxCo _y O ₂ nanoparticles as highly effective oxygen reduction electrocatalysts in alkaline media with enhanced stability and fuel-tolerance. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119149	21.8	9
6	An exchangeable-tip scanning probe instrument for the analysis of combinatorial libraries of electrocatalysts. <i>Review of Scientific Instruments</i> , 2013 , 84, 024101	1.7	8
5	A Mechanistic Differential Electrochemical Mass Spectrometry (DEMS) and in situ Fourier Transform Infrared Investigation of Dimethoxymethane Electro-Oxidation at Platinum. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13293-13302	3.8	8
4	Designing Synergistic Electrocatalysts for H ₂ Oxidation and Evolution Reactions in Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7188-7203	3.8	3
3	Methanol Oxidation at Platinum in Alkaline Media: A Study of the Effects of Hydroxide Concentration and of Mass Transport. <i>ChemPhysChem</i> , 2021 , 22, 1397-1406	3.2	2
2	New insights into methanol and formic acid electro-oxidation on Pt: Simultaneous DEMS and ATR-SEIRAS study under well-defined flow conditions and simulations of CO spectra.. <i>Journal of Chemical Physics</i> , 2022 , 156, 034703	3.9	1
1	A channel flow cell with double disk electrodes for oxygen electroreduction study at elevated temperatures and pressures: Theory. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115251	4.1	0