De-Jun Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

28 papers	1,496 citations	489802 18 h-index	511568 30 g-index
30 all docs	30 docs citations	30 times ranked	2673 citing authors

#	Article	IF	Citations
1	Origin of the Drastic Current Decay during Potentiostatic Alkaline Methanol Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 43535-43542.	4.0	7
2	A versatile and robust surface-poison-resisting Scanning Amperometric Proton Microscopy. Journal of Electroanalytical Chemistry, 2020, 875, 113918.	1.9	2
3	Dualâ€IR Window/Electrode Operando Attenuated Total Reflectionâ€IR Absorption Spectroscopy for Battery Research. Batteries and Supercaps, 2019, 2, 60-65.	2.4	3
4	Effect of surface-bound sulfide on oxygen reduction reaction on Pt: Breaking the scaling relationship and mechanistic insights. Journal of Chemical Physics, 2019, 150, 041728.	1.2	17
5	An in-situ electrochemical IR investigation of solution CO electro-oxidation on a polycrystalline Au surface in an alkaline electrolyte: Identification of active reaction intermediates. Journal of Electroanalytical Chemistry, 2017, 800, 39-45.	1.9	12
6	Mechanistic Insight into Sulfide-Enhanced Oxygen Reduction Reaction Activity and Stability of Commercial Pt Black: An in Situ Raman Spectroscopic Study. ACS Catalysis, 2016, 6, 5000-5004.	5.5	24
7	Mechanistic Insights into Electro-Oxidation of Solution CO on the Polycrystalline Gold Surface as Seen by in Situ IR Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 16132-16139.	1.5	8
8	Dual-Electrode In Situ Infrared Spectroscopy for Fuel Cells. Journal of the Electrochemical Society, 2016, 163, H3038-H3042.	1.3	7
9	Irrelevance of Carbon Monoxide Poisoning in the Methanol Oxidation Reaction on a PtRu Electrocatalyst. Angewandte Chemie - International Edition, 2015, 54, 9394-9398.	7.2	135
10	In situ Raman spectroscopic measurement of near-surface proton concentration changes during electrochemical reactions. Chemical Communications, 2015, 51, 5683-5686.	2.2	11
11	Electrochemical and in situ ATR-SEIRAS investigations of methanol and CO electro-oxidation on PVP-free cubic and octahedral/tetrahedral Pt nanoparticles. RSC Advances, 2014, 4, 21284-21293.	1.7	18
12	On the chemistry of activation of a commercial carbon-supported PtRu electrocatalyst for the methanol oxidation reaction. Chemical Communications, 2014, 50, 12963-12965.	2.2	15
13	Enhanced CO monolayer electro-oxidation reaction on sulfide-adsorbed Pt nanoparticles: A combined electrochemical and in situ ATR-SEIRAS spectroscopic study. Catalysis Today, 2013, 202, 175-182.	2.2	10
14	Mechanistic Insights on Sulfide-Adsorption Enhanced Activity of Methanol Electro-Oxidation on Pt Nanoparticles. ACS Catalysis, 2012, 2, 168-174.	5.5	20
15	An in situ attenuated total reflection-surface enhanced infrared absorption spectroscopic study of enhanced methanol electro-oxidation activity on carbon-supported Pt nanoparticles by poly(vinylpyrrolidone) of different molecular weights. Electrochimica Acta, 2012, 82, 543-549.	2.6	13
16	Origin of the current peak of negative scan in the cyclic voltammetry of methanol electro-oxidation on Pt-based electrocatalysts: a revisit to the current ratio criterion. Journal of Materials Chemistry, 2012, 22, 5205.	6.7	232
17	Electroless deposition of ultrathin Au film for surface enhanced in situ spectroelectrochemisrty and reaction-driven surface reconstruction for oxygen reduction reaction. Catalysis Today, 2012, 182, 46-53.	2.2	26
18	Capping polymer-enhanced electrocatalytic activity on Pt nanoparticles: a combined electrochemical and in situ IR spectroelectrochemical study. Physical Chemistry Chemical Physics, 2011, 13, 7467.	1.3	31

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19	An in situ SERS investigation of the chemical states of sulfur species adsorbed onto Pt from different sulfur sources. Journal of Electroanalytical Chemistry, 2011, 662, 52-56.	1.9	18
20	Identification of the Most Active Sites and Surface Water Species: A Comparative Study of CO and Methanol Oxidation Reactions on Coreâ˜Shell M@Pt (M = Ru, Au) Nanoparticles by in Situ IR Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 8735-8743.	1.5	32
21	Enhanced activity of rare earth doped PtRu/C catalysts for methanol electro-oxidation. Electrochimica Acta, 2011, 56, 8912-8918.	2.6	28
22	Study of pyrolyzed hemin/C as non-platinum cathodic catalyst for direct methanol fuel cells. Science China Chemistry, 2010, 53, 2057-2062.	4.2	21
23	Highâ€Index Faceted Platinum Nanocrystals Supported on Carbon Black as Highly Efficient Catalysts for Ethanol Electrooxidation. Angewandte Chemie - International Edition, 2010, 49, 411-414.	7.2	310
24	Nonenzymatic amperometric sensing of glucose by using palladium nanoparticles supported on functional carbon nanotubes. Biosensors and Bioelectronics, 2010, 25, 1803-1808.	5.3	151
25	A non-intermetallic PtPb/C catalyst of hollow structure with high activity and stability for electrooxidation of formic acid. Chemical Communications, 2010, 46, 4252.	2.2	59
26	Electrochemical and In Situ FTIR Studies of Adsorption and Oxidation of Dimethyl Ether on Platinum Electrode. Acta Physico-chimica Sinica, 2008, 24, 1739-1744.	0.6	9
27	Electrooxidation of Dimethoxymethane on a Platinum Electrode in Acidic Solutions Studied by in Situ FTIR Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 19012-19017.	1.5	32
28	Nanoparticlecatalysts with high energy surfaces and enhanced activity synthesized by electrochemical method. Faraday Discussions, 2008, 140, 81-92.	1.6	170