Francisco Alcaide

List of Publications by Year
in descending order

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53 papers	1,876 citations	236925 25 h-index	254184 43 g-index
54 all docs	54 docs citations	54 times ranked	2585 citing authors

#	Article	IF	Citations
1	Testing PtCu Nanoparticles Supported on Highly Ordered Mesoporous Carbons CMK3 and CMK8 as Catalysts for Low-Temperature Fuel Cells. Catalysts, 2021, 11, 724.	3.5	10
2	New Insights on Tortuosity Determination by EIS for Battery Electrodes: Effect of Electrolyte Concentration and Temperature. Journal of the Electrochemical Society, 2021, 168, 110514.	2.9	4
3	The use of tin oxide in fuel cells. , 2020, , 379-410.		1
4	A stable CoSP/MWCNTs air-diffusion cathode for the photoelectro-Fenton degradation of organic pollutants at pre-pilot scale. Chemical Engineering Journal, 2020, 379, 122417.	12.7	43
5	Electrochemical performance of carbon-supported Pt(Cu) electrocatalysts for low-temperature fuel cells. International Journal of Hydrogen Energy, 2020, 45, 20582-20593.	7.1	28
6	Supporting PtRh alloy nanoparticle catalysts by electrodeposition on carbon paper for the ethanol electrooxidation in acidic medium. Journal of Electroanalytical Chemistry, 2020, 861, 113960.	3.8	14
7	A Highly Stable Metalâ€“Organic Framework-Engineered FeS₂/C Nanocatalyst for Heterogeneous Electro-Fenton Treatment: Validation in Wastewater at Mild pH. Environmental Science & Technology, 2020, 54, 4664-4674.	10.0	118
8	Platinum-catalyzed Nbâ€“doped TiO2 and Nb-doped TiO2 nanotubes for hydrogen generation in proton exchange membrane water electrolyzers. International Journal of Hydrogen Energy, 2020, 45, 20605-20619.	7.1	17
9	In Situ Analysis of NMCâˆ£graphite Li-Ion Batteries by Means of Complementary Electrochemical Methods. Journal of the Electrochemical Society, 2020, 167, 090528.	2.9	17
10	Supporting IrO2 and IrRuO nanoparticles on TiO2 and Nb-doped TiO2 nanotubes as electrocatalysts for the oxygen evolution reaction. Journal of Energy Chemistry, 2019, 34, 227-239.	12.9	48
11	Enhanced electrocatalytic production of H2O2 at Co-based air-diffusion cathodes for the photoelectro-Fenton treatment of bronopol. Applied Catalysis B: Environmental, 2019, 247, 191-199.	20.2	73
12	On-site H2O2 electrogeneration at a CoS2-based air-diffusion cathode for the electrochemical degradation of organic pollutants. Journal of Electroanalytical Chemistry, 2018, 808, 364-371.	3.8	53
13	Nanoporous Fe-Based Alloy Prepared by Selective Dissolution: An Effective Fenton Catalyst for Water Remediation. ACS Omega, 2017, 2, 653-662.	3.5	12
14	Effect of the solvent in the catalyst ink preparation on the properties and performance of unsupported PtRu catalyst layers in direct methanol fuel cells. Electrochimica Acta, 2017, 231, 529-538.	5.2	22
15	Introduction. Journal of Hazardous Materials, 2016, 319, 1-2.	12.4	3
16	Manganese oxide catalysts for secondary zinc air batteries: from electrocatalytic activity to bifunctional air electrode performance. Electrochimica Acta, 2016, 217, 80-91.	5.2	88
17	Enhanced activity and durability of novel activated carbon-supported PdSn heat-treated cathode catalyst for polymer electrolyte fuel cells. Electrochimica Acta, 2016, 192, 268-282.	5.2	28
18	Carbon-supported Pt-free catalysts with high specificity and activity toward the oxygen reduction reaction in acidic medium. Applied Catalysis B: Environmental, 2016, 184, 12-19.	20.2	52

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19	Carbon monoxide and ethanol oxidation on PtSn supported catalysts: Effect of the nature of the carbon support and Pt:Sn composition. Applied Catalysis B: Environmental, 2015, 168-169, 33-41.	20.2	63
20	Electrochemical Preparation and Characterization of Polypyrrole/Stainless Steel Electrodes Decorated with Gold Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 2677-2687.	8.0	35
21	Synthesis and testing of new carbon-supported PdP catalysts for oxygen reduction reaction in polymer electrolyte fuel cells. Journal of Electroanalytical Chemistry, 2015, 754, 8-21.	3.8	13
22	Carbon monoxide and methanol oxidations on carbon nanofibers supported Ptâ€“Ru electrodes at different temperatures. Electrochimica Acta, 2015, 186, 359-368.	5.2	31
23	Progress on the development of uniform distributed Pd electroless based catalysts on MEA for PEMFC application. Journal of Solid State Electrochemistry, 2014, 18, 2721-2729.	2.5	0
24	Environmental Energy Technologies. , 2014, , 863-865.		0
25	An electrochemical route to prepare Pd nanostructures on a gas diffusion substrate for a PEMFC. Electrochimica Acta, 2013, 106, 516-524.	5.2	17
26	APPLICATIONS - STATIONARY | Cogeneration of Energy and Chemicals: Fuel Cells. , 2013, , .		0
27	A micro alkaline direct ethanol fuel cell with platinum-free catalysts. Journal of Micromechanics and Microengineering, 2013, 23, 115006.	2.6	14
28	Electrochemical performance of low temperature PEMFC with surface tailored carbon nanofibers as catalyst support. International Journal of Hydrogen Energy, 2012, 37, 393-404.	7.1	49
29	Development of a carbon paper-supported Pd catalyst for PEMFC application. International Journal of Hydrogen Energy, 2012, 37, 7192-7199.	7.1	22
30	Electrochemical stability of carbon nanofibers in proton exchange membrane fuel cells. Electrochimica Acta, 2011, 56, 9370-9377.	5.2	31
31	Electrooxidation of H2/CO on carbon-supported PtRu-MoO nanoparticles for polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2011, 36, 14590-14598.	7.1	26
32	Testing of carbon supported Pdâ€“Pt electrocatalysts for methanol electrooxidation in direct methanol fuel cells. International Journal of Hydrogen Energy, 2011, 36, 4432-4439.	7.1	58
33	Technical electrodes catalyzed with PtRu on mesoporous ordered carbons for liquid direct methanol fuel cells. Journal of Solid State Electrochemistry, 2010, 14, 1027-1034.	2.5	32
34	Ptâ€“Ru electrocatalysts supported on ordered mesoporous carbon for direct methanol fuel cell. Journal of Power Sources, 2010, 195, 4022-4029.	7.8	132
35	Performance of carbon-supported PtPd as catalyst for hydrogen oxidation in the anodes of proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2010, 35, 11634-11641.	7.1	43
36	Development of a novel portable-size PEMFC short stack with electrodeposited Pt hydrogen diffusion anodes. International Journal of Hydrogen Energy, 2010, 35, 5521-5527.	7.1	19

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37	Effect of Gas Diffusion Layer Composition on the Performance of Direct Methanol Fuel Cells. Electrochemical and Solid-State Letters, 2010, 13, B73.	2.2	5
38	Effect of Gas Diffusion Layer Composition on the Performance of Liquid Direct Methanol Fuel Cells. ECS Transactions, 2009, 25, 891-897.	0.5	1
39	Hydrogen reaction at open circuit in alkaline media on Pt in a gas-diffusion electrode. Journal of Electroanalytical Chemistry, 2009, 626, 183-191.	3.8	12
40	Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. Polymer Bulletin, 2009, 62, 813-827.	3.3	23
41	Pt supported on carbon nanofibers as electrocatalyst for low temperature polymer electrolyte membrane fuel cells. Electrochemistry Communications, 2009, 11, 1081-1084.	4.7	37
42	Tailor-made polymer electrolytes based upon ionic liquids and their application in all-plastic electrochromic devices. Electrochemistry Communications, 2006, 8, 482-488.	4.7	193
43	New approach to prepare Pt-based hydrogen diffusion anodes tolerant to CO for polymer electrolyte membrane fuel cells. Catalysis Today, 2006, 116, 408-414.	4.4	13
44	Fuel cells for chemicals and energy cogeneration. Journal of Power Sources, 2006, 153, 47-60.	7.8	124
45	Single-walled carbon nanotube-supported platinum nanoparticles as fuel cell electrocatalysts. Journal of Materials Research, 2006, 21, 2841-2846.	2.6	20
46	Hydrogen Oxidation Reaction in a Pt-Catalyzed Gas Diffusion Electrode in Alkaline Medium. Journal of the Electrochemical Society, 2005, 152, E319.	2.9	14
47	Limiting behaviour during the hydroperoxide ion generation in a flow alkaline fuel cell. Journal of Electroanalytical Chemistry, 2004, 566, 235-240.	3.8	11
48	EIS analysis of hydroperoxide ion generation in an uncatalyzed oxygen-diffusion cathode. Journal of Electroanalytical Chemistry, 2003, 547, 61-73.	3.8	34
49	An Impedance Study of the O[sub 2]âˆ£HO[sub 2][sup â^’] System in Equilibrium on a Gas Diffusion Electrode. Journal of the Electrochemical Society, 2003, 150, E52.	2.9	8
50	Oxygen Reduction on Uncatalyzed Carbon-PTFE Gas Diffusion Cathode in Alkaline Medium. Journal of the Electrochemical Society, 2002, 149, E64.	2.9	30
51	Impedance study of the evolution of a HO2â^’-generating hydrophobic gas diffusion electrode. Electrochemistry Communications, 2002, 4, 838-843.	4.7	13
52	A small-scale flow alkaline fuel cell for on-site production of hydrogen peroxide. Electrochimica Acta, 2002, 48, 331-340.	5.2	74
53	Electrogeneration of Hydroperoxide Ion Using an Alkaline Fuel Cell. Journal of the Electrochemical Society, 1998, 145, 3444-3449.	2.9	48