

Joelma Perez

List of Publications by Year in descending order

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36
papers

1,692
citations

331670

21
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

2208
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen electrocatalysis on thin porous coating rotating platinum electrodes. <i>Electrochimica Acta</i> , 1998, 44, 1329-1339.	5.2	278
2	The Electro-oxidation of Ethanol on Pt-Ru and Pt-Mo Particles Supported on High-Surface-Area Carbon. <i>Journal of the Electrochemical Society</i> , 2002, 149, A272.	2.9	162
3	The renaissance of unsupported nanostructured catalysts for low-temperature fuel cells: from the size to the shape of metal nanostructures. <i>Journal of Materials Science</i> , 2011, 46, 4435-4457.	3.7	116
4	Hydrogen Evolution Reaction on Gold Single-Crystal Electrodes in Acid Solutions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10931-10935.	2.6	113
5	Particle size effect for ethanol electro-oxidation on Pt/C catalysts in half-cell and in a single direct ethanol fuel cell. <i>Journal of Electroanalytical Chemistry</i> , 2011, 654, 108-115.	3.8	104
6	Alloys and oxides on carbon-supported Pt-Sn electrocatalysts for ethanol oxidation. <i>Journal of Power Sources</i> , 2010, 195, 3394-3401.	7.8	90
7	Structure sensitivity of oxygen reduction on platinum single crystal electrodes in acid solutions. <i>Journal of Electroanalytical Chemistry</i> , 1997, 435, 179-187.	3.8	80
8	The use of rare earth-based materials in low-temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15752-15765.	7.1	69
9	Application of the Flooded Agglomerate Model to Study Oxygen Reduction on Thin Porous Coating Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , 1994, 141, 431-436.	2.9	60
10	Effects of Alloyed and Oxide Phases on Methanol Oxidation of Pt-Ru/C Nanocatalysts of the Same Particle Size. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8518-8525.	3.1	56
11	Electrochemical Properties of Iron Phthalocyanine Immobilized on Titanium(IV) Oxide Coated on Silica Gel Surface. <i>Langmuir</i> , 1995, 11, 1009-1013.	3.5	51
12	Electro-oxidation of ethanol on ternary Pt-Sn-Ce/C catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 176-184.	20.2	43
13	Surface structure and electronic properties of Pt-Fe/C nanocatalysts and their relation with catalytic activity for oxygen reduction. <i>Journal of Power Sources</i> , 2010, 195, 3111-3118.	7.8	42
14	The Aerosol OT + n-Butanol + n-Heptane + Water System: Phase Behavior, Structure Characterization, and Application to Pt ₇₀ Fe ₃₀ Nanoparticle Synthesis. <i>Langmuir</i> , 2007, 23, 11015-11020.	3.5	39
15	Well-Alloyed PtFe-C Nanocatalysts of Controlled Composition and Same Particle Size: Oxygen Reduction and Methanol Tolerance. <i>Journal of the Electrochemical Society</i> , 2009, 156, B51.	2.9	39
16	Influence of Particle Size on the Properties of Pt-Ru-C Catalysts Prepared by a Microemulsion Method. <i>Journal of the Electrochemical Society</i> , 2007, 154, B474.	2.9	36
17	Effect of the relationship between particle size, inter-particle distance, and metal loading of carbon supported fuel cell catalysts on their catalytic activity. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	28
18	Surface and electrochemical investigations of a fullerene soot. <i>Electrochimica Acta</i> , 1999, 44, 3565-3574.	5.2	26

#	ARTICLE	IF	CITATIONS
19	CO tolerance and stability of PtRu and PtRuMo electrocatalysts supported on N-doped graphene nanoplatelets for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5276-5284.	7.1	25
20	Structural and electrochemical characterization of carbon supported Pt–Pr catalysts for direct ethanol fuel cells prepared using a modified formic acid method in a CO atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11730.	2.8	24
21	Impedance Studies of the Oxygen Reduction on Thin Porous Coating Rotating Platinum Electrodes. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2307-2313.	2.9	23
22	Electro-oxidation of ethanol on ternary non-alloyed Pt–Sn–Pr/C catalysts. <i>Journal of Power Sources</i> , 2015, 275, 377-383.	7.8	23
23	Dependence on composition of electronic properties and stability of Pt–Fe/C catalysts for oxygen reduction. <i>Journal of Power Sources</i> , 2010, 195, 7255-7258.	7.8	22
24	Activity, short-term stability (poisoning tolerance) and durability of carbon supported Pt–Pr catalysts for ethanol oxidation. <i>Journal of Power Sources</i> , 2014, 251, 402-410.	7.8	22
25	Pt–Sn–Eu/C Catalysts: Application of Rare Earth Metals as Anodes in Direct Ethanol Fuel Cells. <i>Fuel Cells</i> , 2018, 18, 73-81.	2.4	22
26	Effect of the degree of alloying of PtRu/C (1:1) catalysts on ethanol oxidation. <i>Ionics</i> , 2013, 19, 1037-1045.	2.4	20
27	Synthesis, Characterization and CO Tolerance Evaluation in PEMFCs of Pt ₂ RuMo Electrocatalysts. <i>Catalysts</i> , 2019, 9, 61.	3.5	18
28	The Extent on the Nanoscale of Pt-Skin Effects on Oxygen Reduction and Its Influence on Fuel Cell Power. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20267-20271.	3.1	16
29	Pt–rare earth catalysts for ethanol electrooxidation: modification of polyol synthesis. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2581-2587.	2.5	12
30	PEDOT:PSS self-assembled films to methanol crossover reduction in Nafion [®] membranes. <i>Applied Surface Science</i> , 2014, 323, 7-12.	6.1	11
31	Activity, mechanism, and short-term stability evaluation of PtSn-rare earth/C electrocatalysts for the ethanol oxidation reaction. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1525-1537.	2.5	9
32	Spatially resolved oxygen reaction, water, and temperature distribution: Experimental results as a function of flow field and implications for polymer electrolyte fuel cell operation. <i>Applied Energy</i> , 2019, 252, 113421.	10.1	5
33	CO Tolerance and Stability of Graphene and N-Doped Graphene Supported Pt Anode Electrocatalysts for Polymer Electrolyte Membrane Fuel Cells. <i>Catalysts</i> , 2020, 10, 597.	3.5	5
34	Activity and Long-Term Stability Study of Pt-Y/C Electrocatalysts for Oxygen Reduction Reaction. <i>ECS Transactions</i> , 2016, 72, 23-34.	0.5	3
35	Preparação e caracterização de eletrodos monocristalinos. <i>Quimica Nova</i> , 1997, 20, 555-559.	0.3	0
36	Effect of MgO coverage on the synthesis and thermal treatment of Pt-Sn/C catalysts. <i>Materials Letters</i> , 2019, 244, 6-9.	2.6	0