

Miguel Antonio Peñ±a

List of Publications by Year in descending order

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60
papers

7,112
citations

109321

35
h-index

128289

60
g-index

60
all docs

60
docs citations

60
times ranked

8779
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Structures and Performance of Perovskite Oxides. <i>Chemical Reviews</i> , 2001, 101, 1981-2018.	47.7	2,309
2	Hydrogen Production Reactions from Carbon Feedstocks: Fossil Fuels and Biomass. <i>Chemical Reviews</i> , 2007, 107, 3952-3991.	47.7	1,108
3	Surface properties and catalytic performance in methane combustion of Sr-substituted lanthanum manganites. <i>Applied Catalysis B: Environmental</i> , 2000, 24, 193-205.	20.2	521
4	Na-doped ruthenium perovskite electrocatalysts with improved oxygen evolution activity and durability in acidic media. <i>Nature Communications</i> , 2019, 10, 2041.	12.8	227
5	Structural features of $\text{La}_{1-x}\text{Ce}_x\text{NiO}_3$ mixed oxides and performance for the dry reforming of methane. <i>Applied Catalysis A: General</i> , 2006, 311, 94-104.	4.3	206
6	Influence of the Preparation Route of Bimetallic Pt-Au Nanoparticle Electrocatalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2913-2923.	3.1	160
7	Activation of methane by oxygen and nitrogen oxides. <i>Catalysis Reviews - Science and Engineering</i> , 2002, 44, 1-58.	12.9	118
8	Surface properties and catalytic performance of $\text{La}_{1-x}\text{Sr}_x\text{CrO}_3$ perovskite-type oxides for CO and C_3H_6 combustion. <i>Catalysis Communications</i> , 2006, 7, 963-968.	3.3	110
9	Partial oxidation of methane to syngas over Ni/MgO and Ni/La 2O_3 catalysts. <i>Applied Catalysis A: General</i> , 2005, 289, 214-223.	4.3	108
10	Catalytic evaluation of perovskite-type oxide $\text{LaNi}_{1-x}\text{Ru}_x\text{O}_3$ in methane dry reforming. <i>Catalysis Today</i> , 2008, 133-135, 129-135.	4.4	106
11	Effect of calcination temperature on the structural characteristics and catalytic activity for propene combustion of sol-gel derived lanthanum chromite perovskite. <i>Applied Catalysis A: General</i> , 2007, 327, 173-179.	4.3	100
12	Novel Synthesis Method of CO-Tolerant PtRu-MoO $_3$ Nanoparticles: Structural Characteristics and Performance for Methanol Electrooxidation. <i>Chemistry of Materials</i> , 2008, 20, 4249-4259.	6.7	99
13	TiC, TiCN, and TiN Supported Pt Electrocatalysts for CO and Methanol Oxidation in Acidic and Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20769-20777.	3.1	92
14	Performance of alumina, zeolite, palladium, Pd-Ag alloy membranes for hydrogen separation from Towngas mixture. <i>Journal of Membrane Science</i> , 2002, 204, 329-340.	8.2	91
15	Two-dimensional Pd-nanosheets as efficient electrocatalysts for ethanol electrooxidation. Evidences of the C-C scission at low potentials. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 866-875.	20.2	81
16	Controlled synthesis of Pt-Sn/C fuel cell catalysts with exclusive Sn-Pt interaction. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 83-91.	20.2	77
17	Effect of Ni addition over PtRu/C based electrocatalysts for fuel cell applications. <i>Applied Catalysis B: Environmental</i> , 2006, 69, 75-84.	20.2	71
18	$\text{La}_{1-x}\text{Ca}_x\text{NiO}_3$ Perovskite Oxides: Characterization and Catalytic Reactivity in Dry Reforming of Methane. <i>Catalysis Letters</i> , 2008, 124, 195-203.	2.6	71

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19	Enhanced methanol electrooxidation activity of PtRu nanoparticles supported on H ₂ O ₂ -functionalized carbon black. <i>Carbon</i> , 2005, 43, 3002-3005.	10.3	70
20	Structural effects of LaNiO ₃ as electrocatalyst for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 363-371.	20.2	69
21	Methanol electrooxidation on PtRu nanoparticles supported on functionalised carbon black. <i>Catalysis Today</i> , 2006, 116, 422-432.	4.4	68
22	Support Effect in Supported Ni Catalysts on Their Performance for Methane Partial Oxidation. <i>Catalysis Letters</i> , 2003, 87, 211-218.	2.6	66
23	Repercussion of the carbon matrix for the activity and stability of Fe/N/C electrocatalysts for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 185-196.	20.2	63
24	Ethylene epoxidation in a catalytic packed-bed membrane reactor. <i>Chemical Engineering Science</i> , 1998, 53, 3821-3834.	3.8	62
25	Preparation and characterization of nickel-based mixed-oxides and their performance for catalytic methane decomposition. <i>Catalysis Today</i> , 2008, 133-135, 367-373.	4.4	62
26	Functionalization of carbon support and its influence on the electrocatalytic behaviour of Pt/C in H ₂ and CO electrooxidation. <i>Carbon</i> , 2006, 44, 1919-1929.	10.3	59
27	Relevance of the nature of bimetallic PtAu nanoparticles as electrocatalysts for the oxygen reduction reaction in the presence of methanol. <i>Journal of Power Sources</i> , 2008, 177, 9-16.	7.8	56
28	An opening route to the design of cathode materials for fuel cells based on PtCo nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2007, 77, 19-28.	20.2	53
29	Characterization of precursors and reactivity of LaNi _{1-x} Co _x O ₃ for the partial oxidation of methane. <i>Catalysis Today</i> , 2005, 107-108, 906-912.	4.4	51
30	Ethanol oxidation on PtRuMo/C catalysts: In situ FTIR spectroscopy and DEMS studies. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7131-7140.	7.1	49
31	Production of Hydrogen by Partial Oxidation of Methanol over a Cu/ZnO/Al ₂ O ₃ Catalyst: Influence of the Initial State of the Catalyst on the Start-Up Behaviour of the Reformer. <i>Journal of Catalysis</i> , 2002, 212, 112-118.	6.2	45
32	Nickel/alumina catalysts modified by basic oxides for the production of synthesis gas by methane partial oxidation. <i>Catalysis Today</i> , 2006, 116, 304-312.	4.4	44
33	Hydrogenation of substituted aromatic nitrobenzenes over 1% 1.0wt.%Ir/ZrO ₂ catalyst: Effect of meta position and catalytic performance. <i>Catalysis Today</i> , 2013, 213, 93-100.	4.4	44
34	Influence of the electrolyte for the oxygen reduction reaction with Fe/N/C and Fe/N/CNT electrocatalysts. <i>Journal of Power Sources</i> , 2014, 271, 87-96.	7.8	40
35	Hydrogen production via CH ₄ pyrolysis: Regeneration of ex hydrotalcite oxide catalysts. <i>Catalysis Today</i> , 2006, 116, 289-297.	4.4	35
36	Study of the evolution of FeN/C and Fe ₃ C species in Fe/N/C catalysts during the oxygen reduction reaction in acid and alkaline electrolyte. <i>Journal of Power Sources</i> , 2021, 490, 229487.	7.8	34

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37	Mechanistic Aspects of Hydrogen Production by Partial Oxidation of Methanol Over Cu/ZnO Catalysts. <i>Topics in Catalysis</i> , 2003, 22, 245-251.	2.8	33
38	A Study about the Propane Ammoxidation to Acrylonitrile with an Alumina-Supported Sb [~] V [~] O Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4537-4543.	3.7	33
39	Factors influencing the thioresistance of nickel catalysts in aromatics hydrogenation. <i>Applied Catalysis A: General</i> , 2007, 317, 20-33.	4.3	32
40	Effect of redox additives over Ni/Al ₂ O ₃ catalysts on syngas production via methane catalytic partial oxidation. <i>Fuel</i> , 2008, 87, 3223-3231.	6.4	31
41	An XPS and reduction study of PrCoO ₃ . <i>Journal of Materials Science</i> , 1988, 23, 1018-1023.	3.7	30
42	A study of NO and CO interactions with LaMnO ₃ . <i>Journal of Colloid and Interface Science</i> , 1987, 119, 100-107.	9.4	28
43	In [~] Situ Study of Ethanol Electrooxidation on Monodispersed Pt ₃ Sn Nanoparticles. <i>ChemElectroChem</i> , 2014, 1, 885-895.	3.4	28
44	Evidences of the presence of different types of active sites for the oxygen reduction reaction with Fe/N/C based catalysts. <i>Journal of Power Sources</i> , 2016, 327, 204-211.	7.8	28
45	Insights on the electrooxidation of ethanol with Pd-based catalysts in alkaline electrolyte. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31995-32002.	7.1	27
46	Fe doped porous triazine as efficient electrocatalysts for the oxygen reduction reaction in acid electrolyte. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118507.	20.2	27
47	Electrooxidation of H ₂ /CO on carbon-supported PtRu-MoO nanoparticles for polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14590-14598.	7.1	26
48	Features of Li-Mn-MgO Catalysts and Their Relevance in the Oxidative Coupling of Methane. <i>Journal of Catalysis</i> , 1994, 147, 535-543.	6.2	25
49	Selective oxidation of o-xylene over ternary V-Ti-Si catalysts. <i>Applied Catalysis A: General</i> , 2002, 224, 141-151.	4.3	19
50	Promoter effects of dichloromethane on the oxidative coupling of methane over MnMgO catalysts. <i>Applied Catalysis A: General</i> , 1995, 131, 243-261.	4.3	17
51	In Situ Infrared Study of the Electrooxidation of Ethanol and Acetaldehyde in Acid Electrolyte. <i>ChemElectroChem</i> , 2016, 3, 1072-1083.	3.4	16
52	Enhanced stability of SrRuO ₃ mixed oxide via monovalent doping in Sr _{1-x} K _x RuO ₃ for the oxygen evolution reaction. <i>Journal of Power Sources</i> , 2022, 521, 230950.	7.8	15
53	Alumina-supported V [~] Mo [~] O mixed oxide catalysts, the formation of phases involving aluminum: AlVMoO ₇ . <i>Catalysis Today</i> , 2006, 118, 353-359.	4.4	13
54	Infrared study of the electrooxidation of ethanol in alkaline electrolyte with Pt/C, PtRu/C and Pt ₃ Sn. <i>Electrochimica Acta</i> , 2019, 319, 312-322.	5.2	13

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55	Effect of the Thermal Treatment of Fe/N/C Catalysts for the Oxygen Reduction Reaction Synthesized by Pyrolysis of Covalent Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18759-18769.	3.7	12
56	Structure and reactivity of undoped and sodium-doped PbO/Al ₂ O ₃ catalysts for oxidative coupling of methane. <i>Applied Catalysis A: General</i> , 1994, 111, 79-97.	4.3	11
57	Partial oxidation of methane into C1-oxygenates: role of homogeneous reactions and catalyst surface area. <i>Catalysis Today</i> , 2001, 71, 11-19.	4.4	10
58	A comparative study of the interactions of NO and CO with LaCrO ₃ . <i>Journal of Molecular Catalysis</i> , 1988, 45, 355-363.	1.2	8
59	Electrooxidation of ethanol and acetaldehyde in neutral electrolyte, an infrared study. <i>Journal of Electroanalytical Chemistry</i> , 2022, 908, 115968.	3.8	3
60	Mg-Ni-O based OCM catalyst obtained by carbonate precursor method. <i>Solid State Ionics</i> , 1993, 63-65, 325-331.	2.7	2