JosÃ© Maria Correa Bueno

List of Publications by Year
in descending order

79 papers	3,882 citations	109321 35 h-index	123424 61 g-index
79 all docs	79 docs citations	79 times ranked	3958 citing authors

#	Article	IF	Citations
1	Pt/Al2O3La2O3 catalysts stable at high temperature in air, prepared using a â€œone-potâ€•solâ€“gel process: Synthesis, characterization, and catalytic activity in the partial oxidation of CH4. Chemical Engineering Science, 2021, 229, 115966.	3.8	6
2	Steam Reforming of Ethanol Using Niâ€“Co Catalysts Supported on MgAl₂O₄: Structural Study and Catalytic Properties at Different Temperatures. ACS Catalysis, 2021, 11, 2047-2061.	11.2	36
3	Niobium phosphates as bifunctional catalysts for the conversion of biomass-derived monosaccharides. Applied Catalysis A: General, 2021, 617, 118099.	4.3	18
4	Catalysis: Expanding Frontiers. Catalysis Today, 2021, 381, 1-2.	4.4	0
5	Catalytic assessment of nanostructured Pt/xLa2O3-Al2O3 oxides for hydrogen production by dry reforming of methane: Effects of the lanthana content on the catalytic activity. Catalysis Today, 2020, 349, 141-149.	4.4	12
6	The role of the interface between Cu and metal oxides in the ethanol dehydrogenation. Applied Catalysis A: General, 2020, 589, 117236.	4.3	27
7	Direct synthesis of Cu supported on mesoporous silica: Tailoring the Cu loading and the activity for ethanol dehydrogenation. Catalysis Today, 2020, , .	4.4	3
8	The role of Pt loading on La2O3-Al2O3 support for methane conversion reactions via partial oxidation and steam reforming. Fuel, 2019, 254, 115681.	6.4	35
9	Effect of Au doping of Ni/Al2O3 catalysts used in steam reforming of methane: Mechanism, apparent activation energy, and compensation effect. Chemical Engineering Science, 2019, 207, 844-852.	3.8	24
10	On the role of size controlled Pt particles in nanostructured Pt-containing Al2O3 catalysts for partial oxidation of methane. International Journal of Hydrogen Energy, 2019, 44, 27329-27342.	7.1	21
11	Effect of the Pt Precursor and Loading on the Structural Parameters and Catalytic Properties of Pt/Al₂O₃. ChemCatChem, 2019, 11, 3064-3074.	3.7	18
12	Effect of CO2 in the oxidative dehydrogenation reaction of propane over Cr/ZrO2 catalysts. Applied Catalysis A: General, 2018, 558, 55-66.	4.3	44
13	Platinum clusters deposited on maghemite applied to preferential oxidation of CO under hydrogen rich conditions (PROX-CO). Applied Catalysis A: General, 2018, 568, 86-94.	4.3	13
14	Effects of Co Addition to Supported Ni Catalysts on Hydrogen Production from Oxidative Steam Reforming of Ethanol. Energy & Fuels, 2018, 32, 12814-12825.	5.1	18
15	Formation of Bimetallic Copperâ€“Gold Alloy Nanoparticles Probed by in Situ Xâ€ray Absorption Fine Structure Spectroscopy. European Journal of Inorganic Chemistry, 2018, 2018, 3770-3777.	2.0	5
16	The Structure of the Cuâ€“CuO Sites Determines the Catalytic Activity of Cu Nanoparticles. ACS Catalysis, 2017, 7, 2419-2424.	11.2	42
17	Steam reforming of acetic acid over MgAl2O4-supported Co and Ni catalysts: Effect of the composition of Ni/Co and reactants on reaction pathways. Catalysis Today, 2017, 296, 144-153.	4.4	32
18	Applied Catalysis A: General special issue in honor of Prof. Martin Schmal on his 80 th birthday. Applied Catalysis A: General, 2017, 548, 1.	4.3	0

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19	Identifying the adsorbed active intermediates on Pt surface and promotion of activity through the redox CeO 2 in preferential oxidation of CO in H 2. Applied Catalysis A: General, 2017, 548, 164-178.	4.3	20
20	Complex interplay of structural and surface properties of ceria on platinum supported catalyst under water gas shift reaction. Applied Catalysis B: Environmental, 2016, 197, 73-85.	20.2	23
21	Steam reforming of acetone over Ni- and Co-based catalysts: Effect of the composition of reactants and catalysts on reaction pathways. Applied Catalysis B: Environmental, 2016, 195, 16-28.	20.2	56
22	Nickel supported catalysts for hydrogen production by reforming of ethanol as addressed by in situ temperature and spatial resolved XANES analysis. International Journal of Hydrogen Energy, 2016, 41, 3399-3413.	7.1	20
23	The Effect of Ag in the Cu/ZrO2 Performance for the Ethanol Conversion. Topics in Catalysis, 2016, 59, 357-365.	2.8	19
24	Toward Understanding Metal-Catalyzed Ethanol Reforming. ACS Catalysis, 2015, 5, 3841-3863.	11.2	188
25	Catalytic Transformations of Ethanol for Biorefineries. Journal of the Brazilian Chemical Society, 2014, , .	0.6	33
26	Surface and structural features of Pt/PrO2â€“Al2O3 catalysts for dry methane reforming. Applied Catalysis A: General, 2014, 474, 135-148.	4.3	43
27	Effect of Cu content on the surface and catalytic properties of Cu/ZrO2 catalyst for ethanol dehydrogenation. Journal of Molecular Catalysis A, 2014, 381, 26-37.	4.8	96
28	Study of the properties of supported Pd catalysts for steam and autothermal reforming of methane. Applied Catalysis A: General, 2014, 475, 256-269.	4.3	20
29	Probing the stability of Pt nanoparticles encapsulated in solâ€“gel Al2O3 using in situ and ex situ characterization techniques. Applied Catalysis A: General, 2014, 485, 108-117.	4.3	10
30	Cobalt nanoparticles prepared by three different methods. Journal of Experimental Nanoscience, 2014, 9, 398-405.	2.4	26
31	Effect of the ZrO2 phase on the structure and behavior of supported Cu catalysts for ethanol conversion. Journal of Catalysis, 2013, 307, 1-17.	6.2	255
32	Interplay between particle size, composition, and structure of MgAl2O4-supported Coâ€“Cu catalysts and their influence on carbon accumulation during steam reforming of ethanol. Journal of Catalysis, 2013, 307, 222-237.	6.2	41
33	Understanding the effect of Sm2O3 and CeO2 promoters on the structure and activity of Rh/Al2O3 catalysts in methane steam reforming. Journal of Catalysis, 2012, 296, 86-98.	6.2	57
34	Catalytic partial oxidation and steam reforming of methane on La2O3â€“Al2O3 supported Pt catalysts as observed by X-ray absorption spectroscopy. Applied Catalysis A: General, 2012, 431-432, 79-87.	4.3	21
35	DRIFTS study of CO adsorption on praseodymium modified Pt/Al2O3. Applied Surface Science, 2012, 259, 831-839.	6.1	32
36	Pt-promoted Î±-Al2O3-supported Ni catalysts: Effect of preparation conditions on oxi-reduction and catalytic properties for hydrogen production by steam reforming of methane. International Journal of Hydrogen Energy, 2012, 37, 9985-9993.	7.1	26

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37	Site-selective ethanol conversion over supported copper catalysts. Catalysis Communications, 2012, 26, 122-126.	3.3	100
38	Understanding the stability of Co-supported catalysts during ethanol reforming as addressed by in situ temperature and spatial resolved XAFS analysis. Journal of Catalysis, 2012, 287, 124-137.	6.2	49
39	Surface and structural features of Pt/CeO2-La2O3-Al2O3 catalysts for partial oxidation and steam reforming of methane. Applied Catalysis B: Environmental, 2011, 107, 221-236.	20.2	67
40	Insight into Copperâ€Based Catalysts: Microwaveâ€Assisted Morphosynthesis, Inâ€…Situ Reduction Studies, and Dehydrogenation of Ethanol. ChemCatChem, 2011, 3, 839-843.	3.7	25
41	Study of Sm2O3-doped CeO2â€“Al2O3-supported Pt catalysts for partial CH4 oxidation. Applied Catalysis A: General, 2011, 399, 134-145.	4.3	28
42	Structure and redox properties of Co promoted Ni/Al2O3 catalysts for oxidative steam reforming of ethanol. Applied Catalysis B: Environmental, 2011, 105, 346-360.	20.2	95
43	Designing Pt nanoparticles supported on CeO2â€“Al2O3: Synthesis, characterization and catalytic properties in the steam reforming and partial oxidation of methane. Journal of Catalysis, 2010, 276, 351-359.	6.2	51
44	Effect of the CeO2 content on the surface and structural properties of CeO2â€“Al2O3 mixed oxides prepared by solâ€“gel method. Applied Catalysis A: General, 2010, 388, 45-56.	4.3	38
45	Formation of Al-rich nanocrystalline ZSM-5 via chloride-mediated, abrupt, atypical amorphous-to-crystalline transformation. Journal of Materials Chemistry, 2010, 20, 7517.	6.7	15
46	The effects of CeO2 on the activity and stability of Pt supported catalysts for methane reforming, as addressed by in situ temperature resolved XAFS and TEM analysis. Journal of Catalysis, 2009, 263, 335-344.	6.2	39
47	Construction of heterogeneous Ni catalysts from supports and colloidal nanoparticles â€" A challenging puzzle. Journal of Molecular Catalysis A, 2009, 301, 11-17.	4.8	30
48	The effects of Pt promotion on the oxi-reduction properties of alumina supported nickel catalysts for oxidative steam-reforming of methane: Temperature-resolved XAFS analysis. Applied Catalysis A: General, 2009, 366, 122-129.	4.3	32
49	Partial oxidation of methane on Pt catalysts: Effect of the presence of ceriaâ€“zirconia mixed oxide and of metal content. Applied Catalysis A: General, 2009, 364, 122-129.	4.3	35
50	Colloidal Co nanoparticles supported on SiO2: Synthesis, characterization and catalytic properties for steam reforming of ethanol. Applied Catalysis B: Environmental, 2009, 91, 670-678.	20.2	45
51	Effect of CeO2 and La2O3 on the Activity of CeO2â^'La2O3/Al2O3-Supported Pd Catalysts for Steam Reforming of Methane. Catalysis Letters, 2008, 120, 86-94.	2.6	42
52	Partial oxidation and autothermal reforming of methane on Pd/CeO2â€“Al2O3 catalysts. Applied Catalysis A: General, 2008, 348, 183-192.	4.3	64
53	The effects of La2O3 on the structural properties of La2O3â€“Al2O3 prepared by the solâ€“gel method and on the catalytic performance of Pt/La2O3â€“Al2O3 towards steam reforming and partial oxidation of methane. Applied Catalysis B: Environmental, 2008, 84, 552-562.	20.2	75
54	Syngas production by autothermal reforming of methane on supported platinum catalysts. Applied Catalysis A: General, 2008, 334, 259-267.	4.3	61

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55	Promoter effect of CeO2 on the stability of supported Pt catalysts for methane-reforming as revealed by in-situ XANES and TEM analysis. Studies in Surface Science and Catalysis, 2007, , 433-438.	1.5	0
56	Autothermal Reforming of Methane under low Steam/Carbon ratio on supported Pt Catalysts. Studies in Surface Science and Catalysis, 2007, 167, 249-254.	1.5	1
57	Designing Pt catalysts by sol-gel chemistry: influence of the Pt addition methods on catalyst stability in the partial oxidation of methane. Studies in Surface Science and Catalysis, 2007, , 511-516.	1.5	1
58	Promoter effect of Ag and La on stability of NI/AL2o3 catalysts in reforming of methane processes. Studies in Surface Science and Catalysis, 2007, 167, 421-426.	1.5	12
59	Ru-Sn catalysts for selective hydrogenation of crotonaldehyde: Effect of the Sn/(Ru+Sn) ratio. Applied Catalysis A: General, 2007, 318, 70-78.	4.3	41
60	The effect of ceria content on the properties of Pd/CeO2/Al2O3 catalysts for steam reforming of methane. Applied Catalysis A: General, 2007, 316, 107-116.	4.3	141
61	Steam reforming of ethanol on supported nickel catalysts. Applied Catalysis A: General, 2007, 327, 197-204.	4.3	146
62	Alumina-supported Ni catalysts modified with silver for the steam reforming of methane: Effect of Ag on the control of coke formation. Applied Catalysis A: General, 2007, 330, 12-22.	4.3	139
63	Promoting effect of zinc on the vapor-phase hydrogenation of crotonaldehyde over copper-based catalysts. Applied Catalysis A: General, 2005, 294, 197-207.	4.3	33
64	The catalytic behavior of zinc oxide prepared from various precursors and by different methods. Materials Research Bulletin, 2005, 40, 2089-2099.	5.2	46
65	The effect of ceria content on the performance of Pt/CeO/AlO catalysts in the partial oxidation of methane. Applied Catalysis A: General, 2005, 290, 123-132.	4.3	121
66	Co/SiO2 catalysts for selective hydrogenation of crotonaldehyde III. Promoting effect of zinc. Applied Catalysis A: General, 2004, 257, 201-211.	4.3	29
67	Surface Behavior of Alumina-Supported Pt Catalysts Modified with Cerium as Revealed by X-ray Diffraction, X-ray Photoelectron Spectroscopy, and Fourier Transform Infrared Spectroscopy of CO Adsorption. Journal of Physical Chemistry B, 2004, 108, 5349-5358.	2.6	107
68	An infrared study of CO adsorption on silica-supported Ruâ€“Sn catalysts. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2141-2150.	3.9	17
69	CO2 reforming of CH4 over Ru/zeolite catalysts modified with Ti. Journal of Molecular Catalysis A, 2003, 198, 263-275.	4.8	36
70	Effect of CeO2 loading on the surface and catalytic behaviors of CeO2-Al2O3-supported Pt catalysts. Applied Catalysis A: General, 2003, 253, 135-150.	4.3	234
71	CO2 reforming of CH4 over Rh-containing catalysts. Journal of Molecular Catalysis A, 2002, 184, 311-322.	4.8	47
72	Co/SiO2 catalysts for selective hydrogenation of crotonaldehyde II: influence of the Co surface structure on selectivity. Applied Catalysis A: General, 2002, 232, 147-158.	4.3	69

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73	Characterization of ceria-coated alumina carrier. Applied Catalysis A: General, 2002, 234, 271-282.	4.3	286
74	CO2 reforming of methane over zeolite-Y supported ruthenium catalysts. Applied Catalysis A: General, 2000, 193, 173-183.	4.3	41
75	Title is missing!. Catalysis Letters, 1998, 56, 149-153.	2.6	52
76	Supported VPO catalysts for selective oxidation of butane III: Effect of preparation procedure and SiO2 support. Catalysis Today, 1998, 43, 101-110.	4.4	33
77	Partial Oxidation of Methane on Silica-Supported Vanadia Catalysts. The Relevance of Catalyst BET Area and Gas-Phase Activation. Collection of Czechoslovak Chemical Communications, 1998, 63, 1743-1754.	1.0	6
78	Preparation, Properties and Catalytic Activity in the Methanol Synthesis of Spinel-Type Catalysts. Studies in Surface Science and Catalysis, 1994, 81, 343-348.	1.5	1
79	Synthesis and reactivity of copper-containing nonstoichiometric spinel-type catalysts. Applied Catalysis A: General, 1993, 103, 69-78.	4.3	12