

JosÃ© Maria Correa Bueno

List of Publications by Year in descending order

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79
papers

3,882
citations

109321

35
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123424

61
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79
all docs

79
docs citations

79
times ranked

3958
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of ceria-coated alumina carrier. <i>Applied Catalysis A: General</i> , 2002, 234, 271-282.	4.3	286
2	Effect of the ZrO ₂ phase on the structure and behavior of supported Cu catalysts for ethanol conversion. <i>Journal of Catalysis</i> , 2013, 307, 1-17.	6.2	255
3	Effect of CeO ₂ loading on the surface and catalytic behaviors of CeO ₂ -Al ₂ O ₃ -supported Pt catalysts. <i>Applied Catalysis A: General</i> , 2003, 253, 135-150.	4.3	234
4	Toward Understanding Metal-Catalyzed Ethanol Reforming. <i>ACS Catalysis</i> , 2015, 5, 3841-3863.	11.2	188
5	Steam reforming of ethanol on supported nickel catalysts. <i>Applied Catalysis A: General</i> , 2007, 327, 197-204.	4.3	146
6	The effect of ceria content on the properties of Pd/CeO ₂ /Al ₂ O ₃ catalysts for steam reforming of methane. <i>Applied Catalysis A: General</i> , 2007, 316, 107-116.	4.3	141
7	Alumina-supported Ni catalysts modified with silver for the steam reforming of methane: Effect of Ag on the control of coke formation. <i>Applied Catalysis A: General</i> , 2007, 330, 12-22.	4.3	139
8	The effect of ceria content on the performance of Pt/CeO/AlO catalysts in the partial oxidation of methane. <i>Applied Catalysis A: General</i> , 2005, 290, 123-132.	4.3	121
9	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. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5349-5358.	2.6	107
10	Site-selective ethanol conversion over supported copper catalysts. <i>Catalysis Communications</i> , 2012, 26, 122-126.	3.3	100
11	Effect of Cu content on the surface and catalytic properties of Cu/ZrO ₂ catalyst for ethanol dehydrogenation. <i>Journal of Molecular Catalysis A</i> , 2014, 381, 26-37.	4.8	96
12	Structure and redox properties of Co promoted Ni/Al ₂ O ₃ catalysts for oxidative steam reforming of ethanol. <i>Applied Catalysis B: Environmental</i> , 2011, 105, 346-360.	20.2	95
13	The effects of La ₂ O ₃ on the structural properties of La ₂ O ₃ -Al ₂ O ₃ prepared by the sol-gel method and on the catalytic performance of Pt/La ₂ O ₃ -Al ₂ O ₃ towards steam reforming and partial oxidation of methane. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 552-562.	20.2	75
14	Co/SiO ₂ catalysts for selective hydrogenation of crotonaldehyde II: influence of the Co surface structure on selectivity. <i>Applied Catalysis A: General</i> , 2002, 232, 147-158.	4.3	69
15	Surface and structural features of Pt/CeO ₂ -La ₂ O ₃ -Al ₂ O ₃ catalysts for partial oxidation and steam reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 221-236.	20.2	67
16	Partial oxidation and autothermal reforming of methane on Pd/CeO ₂ -Al ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 2008, 348, 183-192.	4.3	64
17	Syngas production by autothermal reforming of methane on supported platinum catalysts. <i>Applied Catalysis A: General</i> , 2008, 334, 259-267.	4.3	61
18	Understanding the effect of Sm ₂ O ₃ and CeO ₂ promoters on the structure and activity of Rh/Al ₂ O ₃ catalysts in methane steam reforming. <i>Journal of Catalysis</i> , 2012, 296, 86-98.	6.2	57

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19	Steam reforming of acetone over Ni- and Co-based catalysts: Effect of the composition of reactants and catalysts on reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2016, 195, 16-28.	20.2	56
20	Title is missing!. <i>Catalysis Letters</i> , 1998, 56, 149-153.	2.6	52
21	Designing Pt nanoparticles supported on CeO ₂ –Al ₂ O ₃ : Synthesis, characterization and catalytic properties in the steam reforming and partial oxidation of methane. <i>Journal of Catalysis</i> , 2010, 276, 351-359.	6.2	51
22	Understanding the stability of Co-supported catalysts during ethanol reforming as addressed by in situ temperature and spatial resolved XAFS analysis. <i>Journal of Catalysis</i> , 2012, 287, 124-137.	6.2	49
23	CO ₂ reforming of CH ₄ over Rh-containing catalysts. <i>Journal of Molecular Catalysis A</i> , 2002, 184, 311-322.	4.8	47
24	The catalytic behavior of zinc oxide prepared from various precursors and by different methods. <i>Materials Research Bulletin</i> , 2005, 40, 2089-2099.	5.2	46
25	Colloidal Co nanoparticles supported on SiO ₂ : Synthesis, characterization and catalytic properties for steam reforming of ethanol. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 670-678.	20.2	45
26	Effect of CO ₂ in the oxidative dehydrogenation reaction of propane over Cr/ZrO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2018, 558, 55-66.	4.3	44
27	Surface and structural features of Pt/PrO ₂ –Al ₂ O ₃ catalysts for dry methane reforming. <i>Applied Catalysis A: General</i> , 2014, 474, 135-148.	4.3	43
28	Effect of CeO ₂ and La ₂ O ₃ on the Activity of CeO ₂ –La ₂ O ₃ /Al ₂ O ₃ -Supported Pd Catalysts for Steam Reforming of Methane. <i>Catalysis Letters</i> , 2008, 120, 86-94.	2.6	42
29	The Structure of the Cu–CuO Sites Determines the Catalytic Activity of Cu Nanoparticles. <i>ACS Catalysis</i> , 2017, 7, 2419-2424.	11.2	42
30	CO ₂ reforming of methane over zeolite-Y supported ruthenium catalysts. <i>Applied Catalysis A: General</i> , 2000, 193, 173-183.	4.3	41
31	Ru-Sn catalysts for selective hydrogenation of crotonaldehyde: Effect of the Sn/(Ru+Sn) ratio. <i>Applied Catalysis A: General</i> , 2007, 318, 70-78.	4.3	41
32	Interplay between particle size, composition, and structure of MgAl ₂ O ₄ -supported Co–Cu catalysts and their influence on carbon accumulation during steam reforming of ethanol. <i>Journal of Catalysis</i> , 2013, 307, 222-237.	6.2	41
33	The effects of CeO ₂ on the activity and stability of Pt supported catalysts for methane reforming, as addressed by in situ temperature resolved XAFS and TEM analysis. <i>Journal of Catalysis</i> , 2009, 263, 335-344.	6.2	39
34	Effect of the CeO ₂ content on the surface and structural properties of CeO ₂ –Al ₂ O ₃ mixed oxides prepared by sol–gel method. <i>Applied Catalysis A: General</i> , 2010, 388, 45-56.	4.3	38
35	CO ₂ reforming of CH ₄ over Ru/zeolite catalysts modified with Ti. <i>Journal of Molecular Catalysis A</i> , 2003, 198, 263-275.	4.8	36
36	Steam Reforming of Ethanol Using Ni–Co Catalysts Supported on MgAl ₂ O ₄ : Structural Study and Catalytic Properties at Different Temperatures. <i>ACS Catalysis</i> , 2021, 11, 2047-2061.	11.2	36

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37	Partial oxidation of methane on Pt catalysts: Effect of the presence of ceria-zirconia mixed oxide and of metal content. <i>Applied Catalysis A: General</i> , 2009, 364, 122-129.	4.3	35
38	The role of Pt loading on La ₂ O ₃ -Al ₂ O ₃ support for methane conversion reactions via partial oxidation and steam reforming. <i>Fuel</i> , 2019, 254, 115681.	6.4	35
39	Supported VPO catalysts for selective oxidation of butane III: Effect of preparation procedure and SiO ₂ support. <i>Catalysis Today</i> , 1998, 43, 101-110.	4.4	33
40	Promoting effect of zinc on the vapor-phase hydrogenation of crotonaldehyde over copper-based catalysts. <i>Applied Catalysis A: General</i> , 2005, 294, 197-207.	4.3	33
41	Catalytic Transformations of Ethanol for Biorefineries. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	33
42	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. <i>Applied Catalysis A: General</i> , 2009, 366, 122-129.	4.3	32
43	DRIFTS study of CO adsorption on praseodymium modified Pt/Al ₂ O ₃ . <i>Applied Surface Science</i> , 2012, 259, 831-839.	6.1	32
44	Steam reforming of acetic acid over MgAl ₂ O ₄ -supported Co and Ni catalysts: Effect of the composition of Ni/Co and reactants on reaction pathways. <i>Catalysis Today</i> , 2017, 296, 144-153.	4.4	32
45	Construction of heterogeneous Ni catalysts from supports and colloidal nanoparticles – A challenging puzzle. <i>Journal of Molecular Catalysis A</i> , 2009, 301, 11-17.	4.8	30
46	Co/SiO ₂ catalysts for selective hydrogenation of crotonaldehyde III. Promoting effect of zinc. <i>Applied Catalysis A: General</i> , 2004, 257, 201-211.	4.3	29
47	Study of Sm ₂ O ₃ -doped CeO ₂ -Al ₂ O ₃ -supported Pt catalysts for partial CH ₄ oxidation. <i>Applied Catalysis A: General</i> , 2011, 399, 134-145.	4.3	28
48	The role of the interface between Cu and metal oxides in the ethanol dehydrogenation. <i>Applied Catalysis A: General</i> , 2020, 589, 117236.	4.3	27
49	Pt-promoted Î±-Al ₂ O ₃ -supported Ni catalysts: Effect of preparation conditions on oxi-reduction and catalytic properties for hydrogen production by steam reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9985-9993.	7.1	26
50	Cobalt nanoparticles prepared by three different methods. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 398-405.	2.4	26
51	Insight into Copper-Based Catalysts: Microwave-Assisted Morphosynthesis, In-Situ Reduction Studies, and Dehydrogenation of Ethanol. <i>ChemCatChem</i> , 2011, 3, 839-843.	3.7	25
52	Effect of Au doping of Ni/Al ₂ O ₃ catalysts used in steam reforming of methane: Mechanism, apparent activation energy, and compensation effect. <i>Chemical Engineering Science</i> , 2019, 207, 844-852.	3.8	24
53	Complex interplay of structural and surface properties of ceria on platinum supported catalyst under water gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 73-85.	20.2	23
54	Catalytic partial oxidation and steam reforming of methane on La ₂ O ₃ -Al ₂ O ₃ supported Pt catalysts as observed by X-ray absorption spectroscopy. <i>Applied Catalysis A: General</i> , 2012, 431-432, 79-87.	4.3	21

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55	On the role of size controlled Pt particles in nanostructured Pt-containing Al ₂ O ₃ catalysts for partial oxidation of methane. International Journal of Hydrogen Energy, 2019, 44, 27329-27342.	7.1	21
56	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
57	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
58	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
59	The Effect of Ag in the Cu/ZrO ₂ Performance for the Ethanol Conversion. Topics in Catalysis, 2016, 59, 357-365.	2.8	19
60	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
61	Effect of the Pt Precursor and Loading on the Structural Parameters and Catalytic Properties of Pt/Al ₂ O ₃ . ChemCatChem, 2019, 11, 3064-3074.	3.7	18
62	Niobium phosphates as bifunctional catalysts for the conversion of biomass-derived monosaccharides. Applied Catalysis A: General, 2021, 617, 118099.	4.3	18
63	An infrared study of CO adsorption on silica-supported Ru-Sn catalysts. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2141-2150.	3.9	17
64	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
65	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
66	Synthesis and reactivity of copper-containing nonstoichiometric spinel-type catalysts. Applied Catalysis A: General, 1993, 103, 69-78.	4.3	12
67	Promoter effect of Ag and La on stability of Ni/Al ₂ O ₃ catalysts in reforming of methane processes. Studies in Surface Science and Catalysis, 2007, 167, 421-426.	1.5	12
68	Catalytic assessment of nanostructured Pt/xLa ₂ O ₃ -Al ₂ O ₃ 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
69	Probing the stability of Pt nanoparticles encapsulated in sol-gel Al ₂ O ₃ using in situ and ex situ characterization techniques. Applied Catalysis A: General, 2014, 485, 108-117.	4.3	10
70	Pt/Al ₂ O ₃ La ₂ O ₃ catalysts stable at high temperature in air, prepared using a one-pot sol-gel process: Synthesis, characterization, and catalytic activity in the partial oxidation of CH ₄ . Chemical Engineering Science, 2021, 229, 115966.	3.8	6
71	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
72	Formation of Bimetallic Copper-Gold Alloy Nanoparticles Probed by in Situ X-ray Absorption Fine Structure Spectroscopy. European Journal of Inorganic Chemistry, 2018, 2018, 3770-3777.	2.0	5

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73	Direct synthesis of Cu supported on mesoporous silica: Tailoring the Cu loading and the activity for ethanol dehydrogenation. <i>Catalysis Today</i> , 2020, , .	4.4	3
74	Preparation, Properties and Catalytic Activity in the Methanol Synthesis of Spinel-Type Catalysts. <i>Studies in Surface Science and Catalysis</i> , 1994, 81, 343-348.	1.5	1
75	Autothermal Reforming of Methane under low Steam/Carbon ratio on supported Pt Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2007, 167, 249-254.	1.5	1
76	Designing Pt catalysts by sol-gel chemistry: influence of the Pt addition methods on catalyst stability in the partial oxidation of methane. <i>Studies in Surface Science and Catalysis</i> , 2007, , 511-516.	1.5	1
77	Promoter effect of CeO ₂ on the stability of supported Pt catalysts for methane-reforming as revealed by in-situ XANES and TEM analysis. <i>Studies in Surface Science and Catalysis</i> , 2007, , 433-438.	1.5	0
78	Applied Catalysis A: General special issue in honor of Prof. Martin Schmal on his 80 th birthday. <i>Applied Catalysis A: General</i> , 2017, 548, 1.	4.3	0
79	Catalysis: Expanding Frontiers. <i>Catalysis Today</i> , 2021, 381, 1-2.	4.4	0