

Pilar Ramirez de la Piscina

List of Publications by Year in descending order

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113
papers

5,124
citations

87843

38
h-index

91828

69
g-index

116
all docs

116
docs citations

116
times ranked

4229
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Production of Hydrogen over Supported Cobalt Catalysts from Ethanol Steam Reforming. <i>Journal of Catalysis</i> , 2002, 209, 306-317.	3.1	506
2	Use of biofuels to produce hydrogen (reformation processes). <i>Chemical Society Reviews</i> , 2008, 37, 2459.	18.7	260
3	CO-free hydrogen from steam-reforming of bioethanol over ZnO-supported cobalt catalysts. <i>Applied Catalysis B: Environmental</i> , 2003, 43, 355-369.	10.8	248
4	Highly effective conversion of CO ₂ to methanol over supported and promoted copper-based catalysts: influence of support and promoter. <i>Applied Catalysis B: Environmental</i> , 2001, 29, 207-215.	10.8	228
5	Effect of sodium addition on the performance of Co-ZnO-based catalysts for hydrogen production from bioethanol. <i>Journal of Catalysis</i> , 2004, 222, 470-480.	3.1	197
6	In situ DRIFT-mass spectrometry study of the ethanol steam-reforming reaction over carbonyl-derived Co/ZnO catalysts. <i>Journal of Catalysis</i> , 2004, 227, 556-560.	3.1	172
7	Direct production of hydrogen from ethanolic aqueous solutions over oxide catalysts. <i>Chemical Communications</i> , 2001, , 641-642.	2.2	160
8	Catalytic performance for CO ₂ conversion to methanol of gallium-promoted copper-based catalysts: influence of metallic precursors. <i>Applied Catalysis B: Environmental</i> , 2001, 34, 255-266.	10.8	160
9	Low-temperature steam-reforming of ethanol over ZnO-supported Ni and Cu catalysts. <i>Catalysis Today</i> , 2006, 116, 361-366.	2.2	132
10	In situ magnetic characterisation of supported cobalt catalysts under steam-reforming of ethanol. <i>Applied Catalysis A: General</i> , 2003, 243, 261-269.	2.2	131
11	Oxidative steam-reforming of ethanol over Co/SiO ₂ , Co-Rh/SiO ₂ and Co-Ru/SiO ₂ catalysts: Catalytic behavior and deactivation/regeneration processes. <i>Journal of Catalysis</i> , 2008, 257, 206-214.	3.1	129
12	Transformation of Co ₃ O ₄ during Ethanol Steam-Re-forming. Activation Process for Hydrogen Production. <i>Chemistry of Materials</i> , 2004, 16, 3573-3578.	3.2	120
13	Supported Pt-Sn catalysts highly selective for isobutane dehydrogenation: preparation, characterization and catalytic behavior. <i>Applied Catalysis A: General</i> , 1999, 189, 77-86.	2.2	110
14	Effective and Highly Selective CO Generation from CO ₂ Using a Polycrystalline γ -Mo ₂ C Catalyst. <i>ACS Catalysis</i> , 2017, 7, 4323-4335.	5.5	108
15	Microcalorimetric and Infrared Studies of Ethanol and Acetaldehyde Adsorption to Investigate the Ethanol Steam Reforming on Supported Cobalt Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10813-10819.	1.2	101
16	CO ₂ hydrogenation to methanol over CuZnGa catalysts prepared using microwave-assisted methods. <i>Catalysis Today</i> , 2015, 242, 193-199.	2.2	96
17	X-ray diffraction study of Co ₃ O ₄ activation under ethanol steam-reforming. <i>Catalysis Today</i> , 2007, 126, 148-152.	2.2	85
18	Development of Hexagonal Closed-Packed Cobalt Nanoparticles Stable at High Temperature. <i>Chemistry of Materials</i> , 2009, 21, 5637-5643.	3.2	81

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19	Bimetallic Silica-Supported Catalysts Based on Ni ⁰ /Sn, Pd ⁰ /Sn, and Pt ⁰ /Sn as Materials in the CO Oxidation Reaction. <i>Chemistry of Materials</i> , 1998, 10, 1333-1342.	3.2	80
20	Critical effect of carbon vacancies on the reverse water gas shift reaction over vanadium carbide catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118719.	10.8	69
21	Hydrogen production from the steam reforming of bio-butanol over novel supported Co-based bimetallic catalysts. <i>Bioresource Technology</i> , 2012, 107, 482-486.	4.8	67
22	Ethanol reforming processes over ZnO-supported palladium catalysts: Effect of alloy formation. <i>Journal of Molecular Catalysis A</i> , 2006, 250, 44-49.	4.8	65
23	Platinum-Tin Catalysts Supported on Silica Highly Selective for n-Hexane Dehydrogenation. <i>Journal of Catalysis</i> , 1997, 166, 44-52.	3.1	58
24	H ₂ production by oxidative steam reforming of ethanol over K promoted Co-Rh/CeO ₂ -ZrO ₂ catalysts. <i>Energy and Environmental Science</i> , 2010, 3, 487.	15.6	58
25	Crotonaldehyde hydrogenation over alumina- and silica-supported Pt-Sn catalysts of different composition. In situ DRIFT study. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3063-3069.	1.3	54
26	Structural changes and activation treatment in a Co/SiO ₂ catalyst for Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2006, 114, 422-427.	2.2	51
27	Influence of Metallic Precursors on the Preparation of Silica-Supported PtSn Alloy: Characterization and Reactivity in the Catalytic Activation of CO ₂ . <i>Journal of Catalysis</i> , 1995, 156, 139-146.	3.1	49
28	Development of robust Co-based catalysts for the selective H ₂ -production by ethanol steam-reforming. The Fe-promoter effect. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3601-3606.	3.8	48
29	Ga-promoted copper-based catalysts highly selective for methanol steam reforming to hydrogen; relation with the hydrogenation of CO ₂ to methanol. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11261-11266.	3.8	45
30	New supported Pd catalysts for the direct transformation of ethanol to ethyl acetate under medium pressure conditions. <i>Catalysis Today</i> , 2005, 107-108, 431-435.	2.2	44
31	Oxidative steam reforming of bio-butanol for hydrogen production: effects of noble metals on bimetallic CoM/ZnO catalysts (M=Ru, Rh, Ir, Pd). <i>Applied Catalysis B: Environmental</i> , 2014, 145, 56-62.	10.8	44
32	Reactions of propene on supported molybdenum and tungsten oxides. <i>Journal of Molecular Catalysis A</i> , 1995, 95, 147-154.	4.8	43
33	Support effect on the formation of the well-defined PtSn alloy from a Pt-Sn bimetallic complex. Catalytic properties in the activation of CO ₂ . <i>Journal of Molecular Catalysis A</i> , 1997, 118, 101-111.	4.8	43
34	Nature and location of cerium in Ce-loaded Y zeolites as revealed by HRTEM and spectroscopic techniques. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 276-286.	2.2	43
35	Vapour phase hydrogenation of crotonaldehyde over magnesia-supported platinum-tin catalysts. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1782-1788.	1.3	42
36	Efficient hydrogen production from bio-butanol oxidative steam reforming over bimetallic Co-Ir/ZnO catalysts. <i>Green Chemistry</i> , 2012, 14, 1035.	4.6	42

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37	Study of the Structure, Acidic, and Catalytic Properties of Binary Mixed-Oxide MoO ₃ -ZrO ₂ Systems. <i>Chemistry of Materials</i> , 2006, 18, 1581-1586.	3.2	41
38	Efficient hydrogen production from ethanol and glycerol by vapour-phase reforming processes with new cobalt-based catalysts. <i>Bioresource Technology</i> , 2011, 102, 3419-3423.	4.8	39
39	Co-Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. <i>Langmuir</i> , 2016, 32, 2267-2276.	1.6	37
40	Hydrogen production from methanol steam reforming over Al ₂ O ₃ - and ZrO ₂ -modified CuOZnO Ga ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13704-13711.	3.8	37
41	Silica-supported PtSn alloy doped with Ga, In or, Tl. <i>Journal of Molecular Catalysis A</i> , 2003, 200, 251-259.	4.8	36
42	Waste biomass to liquids: Low temperature conversion of sugarcane bagasse to bio-oil. The effect of combined hydrolysis treatments. <i>Biomass and Bioenergy</i> , 2011, 35, 2106-2116.	2.9	36
43	Surface organometallic chemistry: evidence of disproportionation of dicobalt octacarbonyl to cobalt(2+) bis[dicarbonylcobaltate(1-)] at the surface of partially hydroxylated magnesia. <i>Inorganic Chemistry</i> , 1988, 27, 4030-4033.	1.9	33
44	In situ infrared spectroscopic study of the reaction pathway of the direct synthesis of n-butanol from ethanol over MgAl mixed-oxide catalysts. <i>Catalysis Today</i> , 2013, 213, 115-121.	2.2	33
45	HUSY zeolite modified by lanthanum: Effect of lanthanum introduction as a vanadium trap. <i>Microporous and Mesoporous Materials</i> , 2010, 133, 75-81.	2.2	32
46	Synthesis and Characterization of Ta ₂ O ₅ -ZrO ₂ Systems: Structure, Surface Acidity, and Catalytic Properties. <i>Chemistry of Materials</i> , 2007, 19, 1445-1451.	3.2	31
47	Hydrogen production from oxidative steam reforming of bio-butanol over CoIr-based catalysts: Effect of the support. <i>Bioresource Technology</i> , 2013, 128, 467-471.	4.8	31
48	Pt/Ta ₂ O ₅ -ZrO ₂ catalysts for vapour phase selective hydrogenation of crotonaldehyde. <i>Applied Catalysis A: General</i> , 2008, 349, 165-169.	2.2	30
49	Ruthenium supported on new TiO ₂ -ZrO ₂ systems as catalysts for the partial oxidation of methane. <i>Catalysis Today</i> , 2010, 149, 248-253.	2.2	30
50	Renewable hydrogen production from oxidative steam reforming of bio-butanol over CoIr/CeZrO ₂ catalysts: Relationship between catalytic behaviour and catalyst structure. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 47-56.	10.8	29
51	Differences in the vapour phase photocatalytic degradation of ammonia and ethanol in the presence of water as a function of TiO ₂ characteristics and the presence of O ₂ . <i>Catalysis Today</i> , 2016, 266, 53-61.	2.2	27
52	Preparation of alumina-supported CuCo catalysts from cyanide complexes and their performance in CO hydrogenation. <i>Applied Catalysis A: General</i> , 1998, 170, 145-157.	2.2	26
53	H ₂ -production from CO ₂ -assisted ethanol steam reforming: The regeneration of Ni-based catalysts. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5256-5263.	3.8	26
54	Structure and reactivity of alumina-supported iron catalysts for ammonia synth. <i>Journal of Catalysis</i> , 1986, 98, 264-276.	3.1	24

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55	Methanol synthesis from CO ₂ and H ₂ over gallium promoted copper-based supported catalysts. Effect of hydrocarbon impurities in the CO ₂ /H ₂ source. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4837-4842.	1.3	24
56	Photocatalytic H ₂ production from ethanol (aq) solutions: The effect of intermediate products. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19629-19636.	3.8	23
57	CO/CO ₂ hydrogenation and ethylene hydroformylation over silica-supported PdZn catalysts. <i>Catalysis Letters</i> , 2001, 72, 183-189.	1.4	21
58	Embedding catalytic nanoparticles inside mesoporous structures with controlled porosity: Au@TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 14170.	5.2	21
59	Preparation and characterization of bulk Mo ₂ C catalysts and their use in the reverse water-gas shift reaction. <i>Catalysis Today</i> , 2020, 356, 384-389.	2.2	21
60	Highly dispersed cobalt in CuCo/SiO ₂ cluster-derived catalyst. <i>Journal of Molecular Catalysis A</i> , 1999, 149, 225-232.	4.8	20
61	Study of ruthenium supported on Ta ₂ O ₅ and ZrO ₂ and Nb ₂ O ₅ and ZrO ₂ as catalysts for the partial oxidation of methane. <i>Catalysis Today</i> , 2009, 142, 308-313.	2.2	20
62	CO ₂ reduction over Cu-ZnGaMO (M = Al, Zr) catalysts prepared by a sol-gel method: Unique performance for the RWGS reaction. <i>Catalysis Today</i> , 2017, 296, 181-186.	2.2	20
63	Behaviour of Pt/TiO ₂ catalysts with different morphological and structural characteristics in the photocatalytic conversion of ethanol aqueous solutions. <i>Catalysis Today</i> , 2020, 341, 13-20.	2.2	20
64	Catalytic Activity for Ammonia Synthesis of Iron Supported Catalysts Prepared from an Acid-modified γ-Al ₂ O ₃ Method. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1984, 518, 227-233.	0.6	19
65	Selective synthesis of alcohols from syngas and hydroformylation of ethylene over supported cluster-derived cobalt catalysts. <i>Catalysis Letters</i> , 1996, 42, 87-91.	1.4	17
66	Hydrogen production from oxidative steam-reforming of n-propanol over Ni/Y ₂ O ₃ -ZrO ₂ catalysts. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7094-7100.	3.8	16
67	Photocatalytic H ₂ production from ethanol aqueous solution using TiO ₂ with tungsten carbide nanoparticles as co-catalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20558-20567.	3.8	16
68	Co/SiO ₂ catalysts prepared from Co ₂ (CO) ₈ for CO hydrogenation into alcohols and hydrocarbons: characterization by magnetic methods and temperature-programmed hydrogenation. <i>Applied Catalysis A: General</i> , 2001, 210, 75-81.	2.2	15
69	Direct transformation of ethanol into ethyl acetate through catalytic membranes containing Pd or Pd-Zn: comparison with conventional supported catalysts. <i>Green Chemistry</i> , 2011, 13, 2569.	4.6	15
70	Efficient CO ₂ -regeneration of Ni/Y ₂ O ₃ -La ₂ O ₃ -ZrO ₂ systems used in the ethanol steam reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19509-19517.	3.8	15
71	Modification of the surface acidity of γ-alumina. <i>Journal of Catalysis</i> , 1984, 89, 531-532.	3.1	14
72	Chemistry of dicobalt octacarbonyl on zinc oxide. Homonuclear ion-pairing surface species related to catalytic activity in ethylene hydroformylation. <i>Journal of Molecular Catalysis A</i> , 1995, 96, 49-55.	4.8	14

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73	FTIR study of the interaction of CO and CO ₂ with silica-supported PtSn alloy. Applied Surface Science, 1998, 134, 217-224.	3.1	14
74	Surface Structure and Reactivity of Catalysts for Ammonia Synthesis. Zeitschrift Fur Physikalische Chemie, 1983, 135, 235-250.	1.4	13
75	Activation of carbon dioxide by a silica-supported platinum-tin bimetallic complex. Journal of the Chemical Society Chemical Communications, 1994, , 2555-2556.	2.0	13
76	H ₂ production from oxidative steam reforming of 1-propanol and propylene glycol over yttria-stabilized supported bimetallic Ni-M (M=Pt, Ru, Ir) catalysts. International Journal of Hydrogen Energy, 2014, 39, 5225-5233.	3.8	13
77	Supported Pt/Sn complexes as catalysts in the hydroformylation of olefins. Journal of Molecular Catalysis, 1992, 74, 401-408.	1.2	12
78	Evidence of multi-component interaction in a V-Ce-HUSY catalyst: Is the cerium-FAL interaction the key of vanadium trapping?. Microporous and Mesoporous Materials, 2008, 115, 253-260.	2.2	11
79	An in-situ DRIFTS-MS study of the photocatalytic H ₂ production from ethanol(aq) vapour over Pt/TiO ₂ and Pt Ga/TiO ₂ catalysts. International Journal of Hydrogen Energy, 2018, 43, 16922-16928.	3.8	11
80	Study of Ni/CeO ₂ -ZnO catalysts in the production of H ₂ from acetone steam reforming. International Journal of Hydrogen Energy, 2019, 44, 12628-12635.	3.8	10
81	Bimetallic Pd-Zn silica-supported catalyst for CO hydrogenation. In situ DRIFT study. Journal of Molecular Catalysis A, 2000, 164, 297-300.	4.8	9
82	Promoter effect of Ga in Pt/Ga-TiO ₂ catalysts for the photo-production of H ₂ from aqueous solutions of ethanol. Catalysis Today, 2017, 287, 85-90.	2.2	9
83	Surface Structure of γ -Alumina-Supported Iron Catalysts for Ammonia Synthesis. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1985, 528, 195-201.	0.6	8
84	Simple kinetic-thermometric determination of submicrogram quantities of ruthenium based on its catalytic effect on the Ce(IV)-As(III) reaction. Thermochemica Acta, 1988, 127, 209-216.	1.2	8
85	Use of Nb ₂ O ₅ as nickel passivating agent: characterisation of the Ni/Nb ₂ O ₅ /SiO ₂ system. Catalysis Today, 2003, 78, 459-465.	2.2	8
86	Catalytic behavior of unsupported Co materials in the reformation of ethanol to hydrogen: An in situ diffuse reflectance infrared Fourier transform (DRIFT)-mass spectrometry study. Pure and Applied Chemistry, 2008, 80, 2397-2403.	0.9	8
87	Understanding bifunctional behavior of Ni/HZSM5 catalyst under isobutane atmosphere. Molecular Catalysis, 2018, 458, 145-151.	1.0	8
88	Preparation and catalytic activity for ammonia synthesis of several ruthenium supported catalysts. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1985, 522, 235-240.	0.6	7
89	Catalytic oxidation of 2,6-di- <i>t</i> -butyl-4-methylphenol by a supported iron complex. Journal of the Chemical Society Chemical Communications, 1988, , 1075.	2.0	7
90	Kinetic-thermometric study of hydrogen peroxide decomposition in basic media catalyzed by Mn(II). Thermochemica Acta, 1988, 125, 319-325.	1.2	6

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91	Support and precursor effects on the preparation of new heterogenized Pt/Sn catalysts for the selective hydroformylation of 1-pentene. <i>Catalysis Letters</i> , 1992, 14, 45-49.	1.4	6
92	Relationship between surface properties of PtSn-SiO ₂ catalysts and their catalytic performance for the CO ₂ and propylene reaction to yield hydroxybutanoic acid. <i>Applied Organometallic Chemistry</i> , 2000, 14, 783-788.	1.7	6
93	Catalytic Processes for Activation of CO ₂ . , 2013, , 1-26.		6
94	Monitoring the insertion of Pt into Cu ₂ Se nanocrystals: a combined structural and chemical approach for the analysis of new ternary phases. <i>Nanoscale</i> , 2020, 12, 16627-16638.	2.8	6
95	Theoretical and experimental study of the interaction of CO on TiC surfaces: Regular versus low coordinated sites. <i>Surface Science</i> , 2013, 613, 63-73.	0.8	5
96	Surface acidity determination of several gamma-aluminas using a thermometric method. <i>Thermochimica Acta</i> , 1988, 127, 355-361.	1.2	4
97	Adsorption of group VIII metal cyanide complexes on acid-modified γ -alumina. <i>Applied Catalysis</i> , 1989, 49, 259-271.	1.1	4
98	Support effect on the n-hexane dehydrogenation reaction over platinum-tin catalysts. <i>Studies in Surface Science and Catalysis</i> , 1998, , 647-652.	1.5	4
99	VO ₂ Reaction with Hydrotalcite and Hydrotalcite-Derived Oxide: The Effect of the Vanadium Loading on the Structure of Catalyst Precursors and on the Vanadium Species. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 241-247.	1.0	4
100	Activation of dinitrogen molecule on the surface of iron (or ruthenium) based catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1984, 24, 179-182.	0.6	3
101	Surface structure of γ -Alumina-Supported Ruthenium Catalysts for ammonia synthesis. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1986, 532, 235-240.	0.6	3
102	Thermometric titration of surface acid sites of acid-modified silica-magnesia. <i>Journal of Catalysis</i> , 1988, 111, 227-230.	3.1	3
103	CO hydrogenation over potassium promoted iron, cobalt, and nickel Catalysts Prepared from Cyanide Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1990, 582, 197-210.	0.6	3
104	Iron-based ammonia synthesis catalysts prepared via non-oxidic precursors. <i>Applied Catalysis</i> , 1990, 59, 249-265.	1.1	2
105	Study of the activation process and catalytic behaviour of a supported iron ammonia synthesis catalyst. <i>Applied Surface Science</i> , 1993, 72, 103-111.	3.1	2
106	Catalytic reaction of CO ₂ with C ₂ H ₄ on supported Pt-Sn bimetallic catalysts. <i>Studies in Surface Science and Catalysis</i> , 1998, , 153-158.	1.5	2
107	Ti-containing hybrid mesoporous organosilicas as photocatalysts for H ₂ production from ethanol. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2115-2123.	2.6	2
108	Carbonyl Compounds as Metallic Precursors of Tailored Supported Catalysts. , 0, , 313-345.		2

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109	Cobalt(II) determination at PPB levels based on its catalytic effect on the hydrazine-hydrogen peroxide reaction. <i>Thermochimica Acta</i> , 1988, 130, 241-248.	1.2	1
110	Thermometric study of the bromate-iodide reaction catalysed by Mo(VI). <i>Thermochimica Acta</i> , 1989, 142, 107-115.	1.2	1
111	Surface basicity modification of γ -Alumina: study by thermometric titration. <i>Thermochimica Acta</i> , 1989, 138, 303-308.	1.2	1
112	On The Reaction between Carbon Dioxide, Ethylene, and Water over Supported Platinum-Tin Catalysts. A Combined Drift-Mass Spectrometry Study. <i>Journal of Catalysis</i> , 2001, 197, 220-223.	3.1	1
113	Biohydrogen and Biomethane Production. <i>RSC Green Chemistry</i> , 2018, , 300-339.	0.0	0