Pilar Ramirez de la Piscina

List of Publications by Year
in descending order

113 papers	5,124 citations	100601 38 h-index	104191 69 g-index
116 all docs	116 docs citations	116 times ranked	4745 citing authors

#	Article	IF	Citations
1	Ti-containing hybrid mesoporous organosilicas as photocatalysts for H2 production from ethanol. Journal of Materials Research and Technology, 2021, 14, 2115-2123.	2.6	2
2	Behaviour of Pt/TiO2 catalysts with different morphological and structural characteristics in the photocatalytic conversion of ethanol aqueous solutions. Catalysis Today, 2020, 341, 13-20.	2.2	20
3	Preparation and characterization of bulk MoXC catalysts and their use in the reverse water-gas shift reaction. Catalysis Today, 2020, 356, 384-389.	2.2	21
4	Monitoring the insertion of Pt into Cu_{2âˆ’x}Se nanocrystals: a combined structural and chemical approach for the analysis of new ternary phases. Nanoscale, 2020, 12, 16627-16638.	2.8	6
5	Photocatalytic H2 production from ethanol aqueous solution using TiO2 with tungsten carbide nanoparticles as co-catalyst. International Journal of Hydrogen Energy, 2020, 45, 20558-20567.	3.8	16
6	Critical effect of carbon vacancies on the reverse water gas shift reaction over vanadium carbide catalysts. Applied Catalysis B: Environmental, 2020, 267, 118719.	10.8	69
7	Study of Ni/CeO2â€“ZnO catalysts in the production of H2 from acetone steam reforming. International Journal of Hydrogen Energy, 2019, 44, 12628-12635.	3.8	10
8	An in-situ DRIFTS-MS study of the photocatalytic H2 production from ethanol(aq) vapour over Pt/TiO2 and Pt Ga/TiO2 catalysts. International Journal of Hydrogen Energy, 2018, 43, 16922-16928.	3.8	11
9	Understanding bifunctional behavior of Ni/HZSM5 catalyst under isobutane atmosphere. Molecular Catalysis, 2018, 458, 145-151.	1.0	8
10	Biohydrogen and Biomethane Production. RSC Green Chemistry, 2018, , 300-339.	0.0	0
11	Hydrogen production from methanol steam reforming over Al 2 O 3 - and ZrO 2 -modified CuOZnOGa 2 O 3 catalysts. International Journal of Hydrogen Energy, 2017, 42, 13704-13711.	3.8	37
12	Effective and Highly Selective CO Generation from CO₂ Using a Polycrystalline Î±-Mo₂C Catalyst. ACS Catalysis, 2017, 7, 4323-4335.	5.5	108
13	CO 2 reduction over Cu-ZnGaMO (M = Al, Zr) catalysts prepared by a sol-gel method: Unique performance for the RWGS reaction. Catalysis Today, 2017, 296, 181-186.	2.2	20
14	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
15	Photocatalytic H 2 production from ethanol (aq) solutions: The effect of intermediate products. International Journal of Hydrogen Energy, 2016, 41, 19629-19636.	3.8	23
16	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. International Journal of Hydrogen Energy, 2016, 41, 19509-19517.	3.8	15
17	Coâ€“Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. Langmuir, 2016, 32, 2267-2276.	1.6	37
18	Differences in the vapour phase photocatalytic degradation of ammonia and ethanol in the presence of water as a function of TiO2 characteristics and the presence of O2. Catalysis Today, 2016, 266, 53-61.	2.2	27

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19	H2-production from CO2-assisted ethanol steam reforming: The regeneration of Ni-based catalysts. International Journal of Hydrogen Energy, 2015, 40, 5256-5263.	3.8	26
20	Ga-promoted copper-based catalysts highly selective for methanol steam reforming to hydrogen; relation with the hydrogenation of CO2 to methanol. International Journal of Hydrogen Energy, 2015, 40, 11261-11266.	3.8	45
21	CO2 hydrogenation to methanol over CuZnGa catalysts prepared using microwave-assisted methods. Catalysis Today, 2015, 242, 193-199.	2.2	96
22	Oxidative steam reforming of bio-butanol for hydrogen production: effects of noble metals on bimetallic CoM/ZnO catalysts (M=Ru, Rh, Ir, Pd). Applied Catalysis B: Environmental, 2014, 145, 56-62.	10.8	44
23	Renewable hydrogen production from oxidative steam reforming of bio-butanol over CoIr/CeZrO2 catalysts: Relationship between catalytic behaviour and catalyst structure. Applied Catalysis B: Environmental, 2014, 150-151, 47-56.	10.8	29
24	H2 production from oxidative steam reforming of 1-propanol and propylene glycol over yttria-stabilized supported bimetallic Niâ€“M (MÂ=ÂPt, Ru, Ir) catalysts. International Journal of Hydrogen Energy, 2014, 39, 5225-5233.	3.8	13
25	Catalytic Processes for Activation of CO2. , 2013, , 1-26.		6
26	Theoretical and experimental study of the interaction of CO on TiC surfaces: Regular versus low coordinated sites. Surface Science, 2013, 613, 63-73.	0.8	5
27	Embedding catalytic nanoparticles inside mesoporous structures with controlled porosity: Au@TiO2. Journal of Materials Chemistry A, 2013, 1, 14170.	5.2	21
28	VO²⁺ Reaction with Hydrotalcite and Hydrotalciteâ€Derived Oxide: The Effect of the Vanadium Loading on the Structure of Catalyst Precursors and on the Vanadium Species. European Journal of Inorganic Chemistry, 2013, 2013, 241-247.	1.0	4
29	Hydrogen production from oxidative steam reforming of bio-butanol over CoIr-based catalysts: Effect of the support. Bioresource Technology, 2013, 128, 467-471.	4.8	31
30	In situ infrared spectroscopic study of the reaction pathway of the direct synthesis of n-butanol from ethanol over MgAl mixed-oxide catalysts. Catalysis Today, 2013, 213, 115-121.	2.2	33
31	Efficient hydrogen production from bio-butanol oxidative steam reforming over bimetallic Coâ€“Ir/ZnO catalysts. Green Chemistry, 2012, 14, 1035.	4.6	42
32	Hydrogen production from oxidative steam-reforming of n-propanol over Ni/Y2O3â€“ZrO2 catalysts. International Journal of Hydrogen Energy, 2012, 37, 7094-7100.	3.8	16
33	Hydrogen production from the steam reforming of bio-butanol over novel supported Co-based bimetallic catalysts. Bioresource Technology, 2012, 107, 482-486.	4.8	67
34	Direct transformation of ethanol into ethyl acetate through catalytic membranes containing Pd or Pd-Zn: comparison with conventional supported catalysts. Green Chemistry, 2011, 13, 2569.	4.6	15
35	Efficient hydrogen production from ethanol and glycerol by vapour-phase reforming processes with new cobalt-based catalysts. Bioresource Technology, 2011, 102, 3419-3423.	4.8	39
36	Waste biomass to liquids: Low temperature conversion of sugarcane bagasse to bio-oil. The effect of combined hydrolysis treatments. Biomass and Bioenergy, 2011, 35, 2106-2116.	2.9	36

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37	HUSY zeolite modified by lanthanum: Effect of lanthanum introduction as a vanadium trap. Microporous and Mesoporous Materials, 2010, 133, 75-81.	2.2	32
38	Ruthenium supported on new TiO2â€“ZrO2 systems as catalysts for the partial oxidation of methane. Catalysis Today, 2010, 149, 248-253.	2.2	30
39	H2 production by oxidative steam reforming of ethanol over K promoted Co-Rh/CeO2-ZrO2 catalysts. Energy and Environmental Science, 2010, 3, 487.	15.6	58
40	Study of ruthenium supported on Ta2O5â€“ZrO2 and Nb2O5â€“ZrO2 as catalysts for the partial oxidation of methane. Catalysis Today, 2009, 142, 308-313.	2.2	20
41	Development of Hexagonal Closed-Packed Cobalt Nanoparticles Stable at High Temperature. Chemistry of Materials, 2009, 21, 5637-5643.	3.2	81
42	Pt/Ta2O5â€“ZrO2 catalysts for vapour phase selective hydrogenation of crotonaldehyde. Applied Catalysis A: General, 2008, 349, 165-169.	2.2	30
43	Development of robust Co-based catalysts for the selective H2-production by ethanol steam-reforming. The Fe-promoter effect. International Journal of Hydrogen Energy, 2008, 33, 3601-3606.	3.8	48
44	Evidence of multi-component interaction in a Vâ€“Ceâ€“HUSY catalyst: Is the ceriumâ€“EFAL interaction the key of vanadium trapping?. Microporous and Mesoporous Materials, 2008, 115, 253-260.	2.2	11
45	Oxidative steam-reforming of ethanol over Co/SiO2, Coâ€“Rh/SiO2 and Coâ€“Ru/SiO2 catalysts: Catalytic behavior and deactivation/regeneration processes. Journal of Catalysis, 2008, 257, 206-214.	3.1	129
46	Use of biofuels to produce hydrogen (reformation processes). Chemical Society Reviews, 2008, 37, 2459.	18.7	260
47	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
48	Synthesis and Characterization of Ta2O5â^'ZrO2Systems:Â Structure, Surface Acidity, and Catalytic Properties.. Chemistry of Materials, 2007, 19, 1445-1451.	3.2	31
49	X-ray diffraction study of Co3O4 activation under ethanol steam-reforming. Catalysis Today, 2007, 126, 148-152.	2.2	85
50	Nature and location of cerium in Ce-loaded Y zeolites as revealed by HRTEM and spectroscopic techniques. Microporous and Mesoporous Materials, 2007, 100, 276-286.	2.2	43
51	Study of the Structure, Acidic, and Catalytic Properties of Binary Mixed-Oxide MoO3â^'ZrO2Systems. Chemistry of Materials, 2006, 18, 1581-1586.	3.2	41
52	Low-temperature steam-reforming of ethanol over ZnO-supported Ni and Cu catalysts. Catalysis Today, 2006, 116, 361-366.	2.2	132
53	Ethanol reforming processes over ZnO-supported palladium catalysts: Effect of alloy formation. Journal of Molecular Catalysis A, 2006, 250, 44-49.	4.8	65
54	Structural changes and activation treatment in a Co/SiO2 catalyst for Fischerâ€“Tropsch synthesis. Catalysis Today, 2006, 114, 422-427.	2.2	51

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55	New supported Pd catalysts for the direct transformation of ethanol to ethyl acetate under medium pressure conditions. Catalysis Today, 2005, 107-108, 431-435.	2.2	44
56	Microcalorimetric and Infrared Studies of Ethanol and Acetaldehyde Adsorption to Investigate the Ethanol Steam Reforming on Supported Cobalt Catalysts. Journal of Physical Chemistry B, 2005, 109, 10813-10819.	1.2	101
57	In situ DRIFT-mass spectrometry study of the ethanol steam-reforming reaction over carbonyl-derived Co/ZnO catalysts. Journal of Catalysis, 2004, 227, 556-560.	3.1	172
58	Effect of sodium addition on the performance of Coâ€"ZnO-based catalysts for hydrogen production from bioethanol. Journal of Catalysis, 2004, 222, 470-480.	3.1	197
59	Transformation of Co3O4during Ethanol Steam-Re-forming. Activation Process for Hydrogen Production. Chemistry of Materials, 2004, 16, 3573-3578.	3.2	120
60	CO-free hydrogen from steam-reforming of bioethanol over ZnO-supported cobalt catalysts. Applied Catalysis B: Environmental, 2003, 43, 355-369.	10.8	248
61	Use of Nb2O5 as nickel passivating agent: characterisation of the Ni/Nb2O5/SiO2 system. Catalysis Today, 2003, 78, 459-465.	2.2	8
62	Silica-supported PtSn alloy doped with Ga, In or, Tl. Journal of Molecular Catalysis A, 2003, 200, 251-259.	4.8	36
63	In situ magnetic characterisation of supported cobalt catalysts under steam-reforming of ethanol. Applied Catalysis A: General, 2003, 243, 261-269.	2.2	131
64	Efficient Production of Hydrogen over Supported Cobalt Catalysts from Ethanol Steam Reforming. Journal of Catalysis, 2002, 209, 306-317.	3.1	506
65	Methanol synthesis from CO2 and H2 over gallium promoted copper-based supported catalysts. Effect of hydrocarbon impurities in the CO2/H2 source. Physical Chemistry Chemical Physics, 2001, 3, 4837-4842.	1.3	24
66	Vapour phase hydrogenation of crotonaldehyde over magnesia-supported platinumâ€"tin catalysts. Physical Chemistry Chemical Physics, 2001, 3, 1782-1788.	1.3	42
67	Direct production of hydrogen from ethanolic aqueous solutions over oxide catalysts. Chemical Communications, 2001, , 641-642.	2.2	160
68	Co/SiO2 catalysts prepared from Co2(CO)8 for CO hydrogenation into alcohols and hydrocarbons: characterization by magnetic methods and temperature-programmed hydrogenation. Applied Catalysis A: General, 2001, 210, 75-81.	2.2	15
69	On The Reaction between Carbon Dioxide, Ethylene, and Water over Supported Platinumâ€"Tin Catalysts. A Combined Driftâ€"Mass Spectrometry Study. Journal of Catalysis, 2001, 197, 220-223.	3.1	1
70	CO/CO2 hydrogenation and ethylene hydroformylation over silica-supported PdZn catalysts. Catalysis Letters, 2001, 72, 183-189.	1.4	21
71	Highly effective conversion of CO2 to methanol over supported and promoted copper-based catalysts: influence of support and promoter. Applied Catalysis B: Environmental, 2001, 29, 207-215.	10.8	228
72	Catalytic performance for CO2 conversion to methanol of gallium-promoted copper-based catalysts: influence of metallic precursors. Applied Catalysis B: Environmental, 2001, 34, 255-266.	10.8	160

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73	Relationship between surface properties of PtSn-SiO2 catalysts and their catalytic performance for the CO2 and propylene reaction to yield hydroxybutanoic acid. Applied Organometallic Chemistry, 2000, 14, 783-788.	1.7	6
74	Bimetallic Pdâ€“Zn silica-supported catalyst for CO hydrogenation. In situ DRIFT study. Journal of Molecular Catalysis A, 2000, 164, 297-300.	4.8	9
75	Crotonaldehyde hydrogenation over alumina- and silica-supported Ptâ€“Sn catalysts of different composition. In situ DRIFT study. Physical Chemistry Chemical Physics, 2000, 2, 3063-3069.	1.3	54
76	Supported Ptâ€“Sn catalysts highly selective for isobutane dehydrogenation: preparation, characterization and catalytic behavior. Applied Catalysis A: General, 1999, 189, 77-86.	2.2	110
77	Highly dispersed cobalt in CuCo/SiO2 cluster-derived catalyst. Journal of Molecular Catalysis A, 1999, 149, 225-232.	4.8	20
78	FTIR study of the interaction of CO and CO2 with silica-supported PtSn alloy. Applied Surface Science, 1998, 134, 217-224.	3.1	14
79	Preparation of alumina-supported CuCo catalysts from cyanide complexes and their performance in CO hydrogenation. Applied Catalysis A: General, 1998, 170, 145-157.	2.2	26
80	Bimetallic Silica-Supported Catalysts Based on Niâ^'Sn, Pdâ^'Sn, and Ptâ^'Sn as Materials in the CO Oxidation Reaction. Chemistry of Materials, 1998, 10, 1333-1342.	3.2	80
81	Support effect on the n-hexane dehydrogenation reaction over platinum-tin catalysts. Studies in Surface Science and Catalysis, 1998, , 647-652.	1.5	4
82	Catalytic reaction of CO2 with C2H4 on supported Pt-Sn bimetallic catalysts. Studies in Surface Science and Catalysis, 1998, , 153-158.	1.5	2
83	Platinumâ€“Tin Catalysts Supported on Silica Highly Selective forn-Hexane Dehydrogenation. Journal of Catalysis, 1997, 166, 44-52.	3.1	58
84	Support effect on the formation of the well-defined PtSn alloy from a Ptî—¸Sn bimetallic complex. Catalytic properties in the activation of CO2. Journal of Molecular Catalysis A, 1997, 118, 101-111.	4.8	43
85	Selective synthesis of alcohols from syngas and hydroformylation of ethylene over supported cluster-derived cobalt catalysts. Catalysis Letters, 1996, 42, 87-91.	1.4	17
86	Chemistry of dicobalt octacarbonyl on zinc oxide. Homonuclear ion-pairing surface species related to catalytic activity in ethylene hydroformylation. Journal of Molecular Catalysis A, 1995, 96, 49-55.	4.8	14
87	Reactions of propene on supported molybdenum and tungsten oxides. Journal of Molecular Catalysis A, 1995, 95, 147-154.	4.8	43
88	Influence of Metallic Precursors on the Preparation of Silica-Supported Ptsn Alloy: Characterization and Reactivity in the Catalytic Activation of CO2. Journal of Catalysis, 1995, 156, 139-146.	3.1	49
89	Activation of carbon dioxide by a silica-supported platinumâ€“tin bimetallic complex. Journal of the Chemical Society Chemical Communications, 1994, , 2555-2556.	2.0	13
90	Study of the activation process and catalytic behaviour of a supported iron ammonia synthesis catalyst. Applied Surface Science, 1993, 72, 103-111.	3.1	2

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91	Supported Pt/Sn complexes as catalysts in the hydroformylation of olefins. Journal of Molecular Catalysis, 1992, 74, 401-408.	1.2	12
92	Support and precursor effects on the preparation of new heterogenized Pt/Sn catalysts for the selective hydroformylation of 1-pentene. Catalysis Letters, 1992, 14, 45-49.	1.4	6
93	CO hydrogenation over potassium promoted iron, cobalt, and nickel Catalysts Prepared from Cyanide Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1990, 582, 197-210.	0.6	3
94	Iron-based ammonia synthesis catalysts prepared via non-oxidic precursors. Applied Catalysis, 1990, 59, 249-265.	1.1	2
95	Thermometric study of the bromate-iodide reaction catalysed by Mo(VI). Thermochimica Acta, 1989, 142, 107-115.	1.2	1
96	Surface basicity modification of Î³-Alumina: study by thermometric titration. Thermochimica Acta, 1989, 138, 303-308.	1.2	1
97	Adsorption of group VIII metal cyanide complexes on acid-modified Î³-alumina. Applied Catalysis, 1989, 49, 259-271.	1.1	4
98	Cobalt(II) determination at PPB levels based on its catalytic effect on the hydrazine-hydrogen peroxide reaction. Thermochimica Acta, 1988, 130, 241-248.	1.2	1
99	Kinetic-thermometric study of hydrogen peroxide decomposition in basic media catalyzed by Mn(II). Thermochimica Acta, 1988, 125, 319-325.	1.2	6
100	Simple kinetic-thermometric determination of submicrogram quantities of ruthenium based on its catalytic effect on the Ce(IV)-As(III) reaction. Thermochimica Acta, 1988, 127, 209-216.	1.2	8
101	Surface acidity determination of several gamma-aluminas using a thermometric method. Thermochimica Acta, 1988, 127, 355-361.	1.2	4
102	Thermometric titration of surface acid sites of acid-modified silica-magnesia. Journal of Catalysis, 1988, 111, 227-230.	3.1	3
103	Surface organometallic chemistry: evidence of disproportionation of dicobalt octacarbonyl to cobalt(2+) bis[dicarbonylcabaltate(1-)] at the surface of partially hydroxylated magnesia. Inorganic Chemistry, 1988, 27, 4030-4033.	1.9	33
104	Catalytic oxidation of 2,6-di-t-butyl-4-methylphenol by a supported iron complex. Journal of the Chemical Society Chemical Communications, 1988, , 1075.	2.0	7
105	Surface structure of ?-Alumina-Supported Ruthenium Catalysts for ammonia synthesis. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1986, 532, 235-240.	0.6	3
106	Structure and reactivity of alumina-supported iron catalysts for ammonia synth. Journal of Catalysis, 1986, 98, 264-276.	3.1	24
107	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
108	Surface Structure of ?-Alumina-Supported Iron Catalysts for Ammonia Synthesis. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1985, 528, 195-201.	0.6	8

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109	Activation of dinitrogen molecule on the surface of iron (or ruthenium) based catalysts. Reaction Kinetics and Catalysis Letters, 1984, 24, 179-182.	0.6	3
110	Modification of the surface acidity of $gamma;-alumina. Journal of Catalysis, 1984, 89, 531-532.	3.1	14
111	Catalytic Activity for Ammonia Synthesis of Iron Supported Catalysts Prepared from an Acid-modified ?-Al2O3 Method. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1984, 518, 227-233.	0.6	19
112	Surface Structure and Reactivity of Catalysts for Ammonia Synthesis. Zeitschrift Fur Physikalische Chemie, 1983, 135, 235-250.	1.4	13
113	Carbonyl Compounds as Metallic Precursors of Tailored Supported Catalysts. , 0, , 313-345.		2