narcis homs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115 papers	4,449 citations	36 h-index	64 g-index
117 ext. papers	4,782 ext. citations	7.5 avg, IF	5.5 L-index

#	Paper	IF	Citations
115	Evolution of the optimal catalytic systems for the oxidative dehydrogenation of ethane: The role of adsorption in the catalytic performance. *Journal of Catalysis*, **2021**,	7.3	3
114	Ti-containing hybrid mesoporous organosilicas as photocatalysts for H2 production from ethanol. *Journal of Materials Research and Technology*, **2021**, 14, 2115-2123	5.5	1
113	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	6.7	7
112	Critical effect of carbon vacancies on the reverse water gas shift reaction over vanadium carbide catalysts. *Applied Catalysis B: Environmental*, **2020**, 267, 118719	21.8	30
111	Preparation and characterization of bulk MoXC catalysts and their use in the reverse water-gas shift reaction. *Catalysis Today*, **2020**, 356, 384-389	5.3	6
110	Monitoring the insertion of Pt into CuSe nanocrystals: a combined structural and chemical approach for the analysis of new ternary phases. *Nanoscale*, **2020**, 12, 16627-16638	7.7	1
109	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	5.3	14
108	Study of Ni/CeO2ZnO catalysts in the production of H2 from acetone steam reforming. *International Journal of Hydrogen Energy*, **2019**, 44, 12628-12635	6.7	8
107	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	6.7	6
106	Understanding bifunctional behavior of Ni/HZSM5 catalyst under isobutane atmosphere. *Molecular Catalysis*, **2018**, 458, 145-151	3.3	5
105	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	6.7	28
104	Effective and Highly Selective CO Generation from CO2 Using a Polycrystalline Mo2C Catalyst. *ACS Catalysis*, **2017**, 7, 4323-4335	13.1	68
103	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	5.3	14
102	Promoter effect of Ga in Pt/Ga-TiO2 catalysts for the photo-production of H2 from aqueous solutions of ethanol. *Catalysis Today*, **2017**, 287, 85-90	5.3	7
101	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	5.3	22
100	Co-Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. *Langmuir*, **2016**, 32, 2267-76	4	30
99	Photocatalytic H 2 production from ethanol (aq) solutions: The effect of intermediate products. *International Journal of Hydrogen Energy*, **2016**, 41, 19629-19636	6.7	16

98	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	6.7	12
97	H2-production from CO2-assisted ethanol steam reforming: The regeneration of Ni-based catalysts. *International Journal of Hydrogen Energy*, **2015**, 40, 5256-5263	6.7	21
96	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	6.7	35
95	CO2 hydrogenation to methanol over CuZnGa catalysts prepared using microwave-assisted methods. *Catalysis Today*, **2015**, 242, 193-199	5.3	78
94	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	21.8	36
93	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	21.8	24
92	H2 production from oxidative steam reforming of 1-propanol and propylene glycol over yttria-stabilized supported bimetallic NiM (M = Pt, Ru, Ir) catalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 5225-5233	6.7	9
91	Catalytic Processes for Activation of CO2 **2013**, 1-26		6
90	Theoretical and experimental study of the interaction of CO on TiC surfaces: Regular versus low coordinated sites. *Surface Science*, **2013**, 613, 63-73	1.8	3
89	Embedding catalytic nanoparticles inside mesoporous structures with controlled porosity: Au@TiO2. *Journal of Materials Chemistry A*, **2013**, 1, 14170	13	20
88	VO2+ Reaction with Hydrotalcite and Hydrotalcite-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	2.3	4
87	Hydrogen production from oxidative steam reforming of bio-butanol over CoIr-based catalysts: effect of the support. *Bioresource Technology*, **2013**, 128, 467-71	11	29
86	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	5.3	23
85	Hydrogen production from the steam reforming of bio-butanol over novel supported Co-based bimetallic catalysts. *Bioresource Technology*, **2012**, 107, 482-6	11	57
84	Efficient hydrogen production from bio-butanol oxidative steam reforming over bimetallic CoIr/ZnO catalysts. *Green Chemistry*, **2012**, 14, 1035	10	36
83	Hydrogen production from oxidative steam-reforming of n-propanol over Ni/Y2O3ZrO2 catalysts. *International Journal of Hydrogen Energy*, **2012**, 37, 7094-7100	6.7	12
82	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	10	14
81	Efficient hydrogen production from ethanol and glycerol by vapour-phase reforming processes with new cobalt-based catalysts. *Bioresource Technology*, **2011**, 102, 3419-23	11	36

80	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	5.3	29
79	H2 production by oxidative steam reforming of ethanol over K promoted Co-Rh/CeO2-ZrO2 catalysts. *Energy and Environmental Science*, **2010**, 3, 487	35.4	53
78	HUSY zeolite modified by lanthanum: Effect of lanthanum introduction as a vanadium trap. *Microporous and Mesoporous Materials*, **2010**, 133, 75-81	5.3	28
77	Ruthenium supported on new TiO2ZrO2 systems as catalysts for the partial oxidation of methane. *Catalysis Today*, **2010**, 149, 248-253	5.3	26
76	Study of ruthenium supported on Ta2O5ZrO2 and Nb2O5ZrO2 as catalysts for the partial oxidation of methane. *Catalysis Today*, **2009**, 142, 308-313	5.3	19
75	Development of Hexagonal Closed-Packed Cobalt Nanoparticles Stable at High Temperature. *Chemistry of Materials*, **2009**, 21, 5637-5643	9.6	68
74	Oxidative steam-reforming of ethanol over Co/SiO2, CoRh/SiO2 and CoRu/SiO2 catalysts: Catalytic behavior and deactivation/regeneration processes. *Journal of Catalysis*, **2008**, 257, 206-214	7.3	116
73	Use of biofuels to produce hydrogen (reformation processes). *Chemical Society Reviews*, **2008**, 37, 2459-67	38.5	241
72	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	2.1	7
71	Pt/Ta2O5ZrO2 catalysts for vapour phase selective hydrogenation of crotonaldehyde. *Applied Catalysis A: General*, **2008**, 349, 165-169	5.1	29
70	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	6.7	41
69	Evidence of multi-component interaction in a V□eHUSY catalyst: Is the ceriumEFAL interaction the key of vanadium trapping?. *Microporous and Mesoporous Materials*, **2008**, 115, 253-260	5.3	11
68	X-ray diffraction study of Co3O4 activation under ethanol steam-reforming. *Catalysis Today*, **2007**, 126, 148-152	5.3	76
67	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	5.3	38
66	Synthesis and Characterization of Ta2O5ZrO2Systems:□Structure, Surface Acidity, and Catalytic Properties.. *Chemistry of Materials*, **2007**, 19, 1445-1451	9.6	30
65	Structural changes and activation treatment in a Co/SiO2 catalyst for Fischer□ropsch synthesis. *Catalysis Today*, **2006**, 114, 422-427	5.3	45
64	Study of the Structure, Acidic, and Catalytic Properties of Binary Mixed-Oxide MoO3ZrO2 Systems. *Chemistry of Materials*, **2006**, 18, 1581-1586	9.6	36
63	Low-temperature steam-reforming of ethanol over ZnO-supported Ni and Cu catalysts. *Catalysis Today*, **2006**, 116, 361-366	5.3	120

62	Ethanol reforming processes over ZnO-supported palladium catalysts: Effect of alloy formation. *Journal of Molecular Catalysis A*, **2006**, 250, 44-49		51
61	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, 10813-9	3.4	89
60	New supported Pd catalysts for the direct transformation of ethanol to ethyl acetate under medium pressure conditions. *Catalysis Today*, **2005**, 107-108, 431-435	5.3	41
59	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	7.3	151
58	Effect of sodium addition on the performance of Co/ZnO-based catalysts for hydrogen production from bioethanol. *Journal of Catalysis*, **2004**, 222, 470-480	7.3	175
57	Transformation of Co3O4 during Ethanol Steam-Re-forming. Activation Process for Hydrogen Production. *Chemistry of Materials*, **2004**, 16, 3573-3578	9.6	110
56	CO-free hydrogen from steam-reforming of bioethanol over ZnO-supported cobalt catalysts. *Applied Catalysis B: Environmental*, **2003**, 43, 355-369	21.8	208
55	Use of Nb2O5 as nickel passivating agent: characterisation of the Ni/Nb2O5/SiO2 system. *Catalysis Today*, **2003**, 78, 459-465	5.3	5
54	Silica-supported PtSn alloy doped with Ga, In or, Tl: Characterization and catalytic behaviour in n-hexane dehydrogenation. *Journal of Molecular Catalysis A*, **2003**, 200, 251-259		31
53	In situ magnetic characterisation of supported cobalt catalysts under steam-reforming of ethanol. *Applied Catalysis A: General*, **2003**, 243, 261-269	5.1	113
52	Efficient Production of Hydrogen over Supported Cobalt Catalysts from Ethanol Steam Reforming. *Journal of Catalysis*, **2002**, 209, 306-317	7.3	453
51	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	5.1	13
50	On The Reaction between Carbon Dioxide, Ethylene, and Water over Supported Platinum−Tin Catalysts. A Combined DRIFT−Mass Spectrometry Study. *Journal of Catalysis*, **2001**, 197, 220-223	7.3	1
49	CO/CO2 hydrogenation and ethylene hydroformylation over silica-supported PdZn catalysts. *Catalysis Letters*, **2001**, 72, 183-189	2.8	20
48	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	21.8	191
47	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	21.8	135
46	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	3.6	18
45	Vapour phase hydrogenation of crotonaldehyde over magnesia-supported platinum−tin catalysts. *Physical Chemistry Chemical Physics*, **2001**, 3, 1782-1788	3.6	39

44	Direct production of hydrogen from ethanolic aqueous solutions over oxide catalysts. *Chemical Communications*, **2001**, 641-642	5.8	142
43	Relationship between surface properties of PtSnSiO2 catalysts and their catalytic performance for the CO2 and propylene reaction to yield hydroxybutanoic acid. *Applied Organometallic Chemistry*, **2000**, 14, 783-788	3.1	5
42	Bimetallic Pd□n silica-supported catalyst for CO hydrogenation. In situ DRIFT study. *Journal of Molecular Catalysis A*, **2000**, 164, 297-300		7
41	Crotonaldehyde hydrogenation over alumina- and silica-supported PtSn catalysts of different composition. In situ DRIFT study. *Physical Chemistry Chemical Physics*, **2000**, 2, 3063-3069	3.6	50
40	Supported PtSn catalysts highly selective for isobutane dehydrogenation: preparation, characterization and catalytic behavior. *Applied Catalysis A: General*, **1999**, 189, 77-86	5.1	94
39	Highly dispersed cobalt in CuCo/SiO2 cluster-derived catalyst. *Journal of Molecular Catalysis A*, **1999**, 149, 225-232		20
38	FTIR study of the interaction of CO and CO2 with silica-supported PtSn alloy. *Applied Surface Science*, **1998**, 134, 217-224	6.7	13
37	Preparation of alumina-supported CuCo catalysts from cyanide complexes and their performance in CO hydrogenation. *Applied Catalysis A: General*, **1998**, 170, 145-157	5.1	26
36	Bimetallic Silica-Supported Catalysts Based on NiSn, PdSn, and PtSn as Materials in the CO Oxidation Reaction. *Chemistry of Materials*, **1998**, 10, 1333-1342	9.6	67
35	Platinum□in Catalysts Supported on Silica Highly Selective forn-Hexane Dehydrogenation. *Journal of Catalysis*, **1997**, 166, 44-52	7.3	46
34	Support effect on the formation of the well-defined PtSn alloy from a Pt?Sn bimetallic complex. Catalytic properties in the activation of CO2. *Journal of Molecular Catalysis A*, **1997**, 118, 101-111		41
33	Selective synthesis of alcohols from syngas and hydroformylation of ethylene over supported cluster-derived cobalt catalysts. *Catalysis Letters*, **1996**, 42, 87-91	2.8	16
32	Reactions of propene on supported molybdenum and tungsten oxides. *Journal of Molecular Catalysis A*, **1995**, 95, 147-154		38
31	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	7.3	40
30	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		13
29	Activation of carbon dioxide by a silica-supported platinum□in bimetallic complex. *Journal of the Chemical Society Chemical Communications*, **1994**, 2555-2556		12
28	Hydroformylation of Ethylene Over Silica-Supported Pt/Sn Catalysts. *Studies in Surface Science and Catalysis*, **1993**, 75, 2363-2366	1.8	3
27	Study of the activation process and catalytic behaviour of a supported iron ammonia synthesis catalyst. *Applied Surface Science*, **1993**, 72, 103-111	6.7	1

26	Supported Pt/Sn complexes as catalysts in the hydroformylation of olefins. *Journal of Molecular Catalysis*, **1992**, 74, 401-408		11
25	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	2.8	4
24	Conversion of synthesis gas over LaMn1$minus;xCUx03+$lambda; perovskites and related copper catalysts. *Journal of Catalysis*, **1990**, 124, 52-72	7.3	43
23	Hydrogenation of CO2 and CO2/CO mixtures over copper-containing catalysts. *Journal of Catalysis*, **1990**, 124, 73-85	7.3	40
22	CO hydrogenation over potassium promoted iron, cobalt, and nickel Catalysts Prepared from Cyanide Complexes. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1990**, 582, 197-210	1.3	3
21	Iron-based ammonia synthesis catalysts prepared via non-oxidic precursors. *Applied Catalysis*, **1990**, 59, 249-265		2
20	Thermometric study of the bromate-iodide reaction catalysed by Mo(VI). *Thermochimica Acta*, **1989**, 142, 107-115	2.9	1
19	Surface basicity modification of □Alumina: study by thermometric titration. *Thermochimica Acta*, **1989**, 138, 303-308	2.9	0
18	Adsorption of group VIII metal cyanide complexes on acid-modified □alumina. *Applied Catalysis*, **1989**, 49, 259-271		4
17	Cobalt(II) determination at PPB levels based on its catalytic effect on the hydrazine-hydrogen peroxide reaction. *Thermochimica Acta*, **1988**, 130, 241-248	2.9	0
16	Kinetic-thermometric study of hydrogen peroxide decomposition in basic media catalyzed by Mn(II). *Thermochimica Acta*, **1988**, 125, 319-325	2.9	5
15	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	2.9	6
14	Surface acidity determination of several gamma-aluminas using a thermometric method. *Thermochimica Acta*, **1988**, 127, 355-361	2.9	4
13	Thermometric titration of surface acid sites of acid-modified silica-magnesia. *Journal of Catalysis*, **1988**, 111, 227-230	7.3	2
12	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	5.1	27
11	Catalytic oxidation of 2,6-di-t-butyl-4-methylphenol by a supported iron complex. *Journal of the Chemical Society Chemical Communications*, **1988**, 1075		5
10	Surface structure of □Alumina-Supported Ruthenium Catalysts for ammonia synthesis. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1986**, 532, 235-240	1.3	2
9	Structure and reactivity of alumina-supported iron catalysts for ammonia synth. *Journal of Catalysis* , **1986**, 98, 264-276	7.3	20

8	Preparation and catalytic activity for ammonia synthesis of several ruthenium supported catalysts. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1985**, 522, 235-240	1.3	5
7	Surface Structure of Alumina-Supported Iron Catalysts for Ammonia Synthesis. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1985**, 528, 195-201	1.3	6
6	Activation of dinitrogen molecule on the surface of iron (or ruthenium) based catalysts. *Reaction Kinetics and Catalysis Letters*, **1984**, 24, 179-182		2
5	Modification of the surface acidity of $gamma;-alumina. *Journal of Catalysis*, **1984**, 89, 531-532	7.3	12
4	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	1.3	15
3	Surface Structure and Reactivity of Catalysts for Ammonia Synthesis. *Zeitschrift Fur Physikalische Chemie*, **1983**, 135, 235-250	3.1	12
2	Beneficial and harmful outcomes of tocilizumab in severe COVID-19: a systematic review and meta-analysis		3
1	Carbonyl Compounds as Metallic Precursors of Tailored Supported Catalysts313-345		1