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List of Publications by Year
in descending order

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131 papers	9,371 citations	38720 50 h-index	38368 95 g-index
134 all docs	134 docs citations	134 times ranked	7056 citing authors

#	Article	IF	Citations
1	Review of literature on catalysts for biomass gasification. Fuel Processing Technology, 2001, 73, 155-173.	3.7	1,053
2	Catalysis for conversion of biomass to fuels via pyrolysis and gasification: A review. Catalysis Today, 2011, 171, 1-13.	2.2	526
3	Methanol reforming for fuel-cell applications: development of zirconia-containing Cuâ€“Znâ€“Al catalysts. Catalysis Today, 1999, 51, 521-533.	2.2	392
4	Mechanistic Aspects of the Selective Reduction of NO by Propene over Alumina and Silverâ€“Alumina Catalysts. Journal of Catalysis, 1999, 187, 493-505.	3.1	341
5	Zirconia as a support for catalysts. Applied Catalysis, 1990, 57, 127-148.	1.1	324
6	Towards Sustainable Production of Formic Acid. ChemSusChem, 2018, 11, 821-836.	3.6	257
7	The catalytic conversion of natural gas to useful products. Catalysis Today, 1996, 30, 193-199.	2.2	224
8	Hydrogen from formic acid decomposition over Pd and Au catalysts. Catalysis Today, 2010, 154, 7-12.	2.2	206
9	Natural gas reforming and CO2 mitigation. Catalysis Today, 2005, 100, 151-158.	2.2	192
10	Roles of supports, Pt loading and Pt dispersion in the oxidation of NO to NO2 and of SO2 to SO3. Applied Catalysis B: Environmental, 1996, 11, 65-79.	10.8	186
11	Zirconia as a support for catalysts Influence of additives on the thermal stability of the porous texture of monoclinic zirconia. Applied Catalysis, 1991, 71, 363-391.	1.1	170
12	Mechanistic differences in the selective reduction of NO by propene over cobalt- and silver-promoted alumina catalysts: kinetic and in situ DRIFTS study. Catalysis Today, 2000, 59, 287-304.	2.2	167
13	Coprecipitated nickelâ€“alumina catalysts for methanation at high temperature. Part 1.â€”Chemical composition and structure of the precipitates. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 649.	1.0	163
14	Syngas production from natural gas using ZrO2-supported metals. Catalysis Today, 1998, 42, 225-232.	2.2	152
15	Mechanism of the reaction of nitric oxide, ammonia, and oxygen over vanadia catalysts. I. The role of oxygen studied by way of isotopic transients under dilute conditions. The Journal of Physical Chemistry, 1987, 91, 5921-5927.	2.9	150
16	Stabilized tetragonal zirconium oxide as a support for catalysts Evolution of the texture and structure on calcination in static air. Applied Catalysis, 1991, 78, 79-96.	1.1	139
17	The effect of O2 addition on the carbon dioxide reforming of methane over Pt/ZrO2 catalysts. Catalysis Today, 1998, 46, 203-210.	2.2	139
18	Evidence for the participation of surface nickel aluminate sites in the steam reforming of methane over nickel/alumina catalysts. Journal of Catalysis, 1978, 52, 280-290.	3.1	133

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19	Pt nanoclusters stabilized by N-doped carbon nanofibers for hydrogen production from formic acid. Journal of Catalysis, 2013, 307, 94-102.	3.1	126
20	Water-gas shift conversion using a feed with a low steam to carbon monoxide ratio and containing sulphur. Catalysis Today, 1996, 30, 107-118.	2.2	125
21	Coprecipitated nickelâ€“alumina catalysts for methanation at high temperature. Part 2.â€”Variation of total and metallic areas as a function of sample composition and method of pretreatment. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 665.	1.0	117
22	Heterogeneous catalysts for hydrogenation of CO₂ and bicarbonates to formic acid and formates. Catalysis Reviews - Science and Engineering, 2018, 60, 566-593.	5.7	113
23	TAP Investigations of the CO2Reforming of CH4over Pt/ZrO2. Journal of Catalysis, 1997, 166, 306-314.	3.1	112
24	Mechanism of the reaction of nitric oxide, ammonia, and oxygen over vanadia catalysts. 2. Isotopic transient studies with oxygen-18 and nitrogen-15. The Journal of Physical Chemistry, 1987, 91, 6633-6638.	2.9	107
25	Water gas shift membrane reactor for CO2 control in IGCC systems: techno-economic feasibility study. Energy Conversion and Management, 1997, 38, S159-S164.	4.4	102
26	Improved hydrogen production from formic acid on a Pd/C catalyst doped by potassium. Chemical Communications, 2012, 48, 4184.	2.2	102
27	The activity of supported vanadium oxide catalysts for the selective reduction of NO with ammonia. Applied Catalysis, 1986, 25, 239-248.	1.1	100
28	Effect of ex situ treatments with SO2 on the activity of a low loading silverâ€“alumina catalyst for the selective reduction of NO and NO2 by propene. Applied Catalysis B: Environmental, 2000, 24, 23-32.	10.8	99
29	Synthesis and characterization of primary alumina, titania and binary membranes. Journal of Materials Science, 1992, 27, 1023-1035.	1.7	86
30	Kinetic and mechanistic aspects of the oxidative coupling of methane over a Li/MgO catalyst. Applied Catalysis, 1989, 52, 131-145.	1.1	85
31	Transient studies of carbon dioxide reforming of methane over Pt/ZrO2 and Pt/Al2O3. Catalysis Today, 2006, 115, 191-198.	2.2	85
32	The development of supported vanadia catalysts for the combined catalytic removal of the oxides of nitrogen and of chlorinated hydrocarbons from flue gases. Catalysis Today, 1997, 35, 97-105.	2.2	84
33	Oxidative coupling of methane over lithium doped magnesium oxide catalysts. Catalysis Today, 1988, 2, 535-545.	2.2	82
34	The synthesis of higher alcohols using modified Cu/ZnO/Al2O3 catalysts. Catalysis Today, 1992, 15, 129-148.	2.2	81
35	The oxidative dehydrogenation of methanol to formaldehyde over silver catalysts in relation to the oxygen-silver interaction. Applied Catalysis, 1986, 23, 385-402.	1.1	75
36	Effect of the silver loading and some other experimental parameters on the selective reduction of NO with C3H6 over Al2O3 and ZrO2-based catalysts. Applied Catalysis B: Environmental, 2001, 30, 163-172.	10.8	73

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37	Effect of additives on lithium doped magnesium oxide catalysts used in the oxidative coupling of methane. Applied Catalysis, 1989, 56, 119-135.	1.1	69
38	Hydrogen production from formic acid vapour over a Pd/C catalyst promoted by potassium salts: Evidence for participation of buffer-like solution in the pores of the catalyst. Applied Catalysis B: Environmental, 2014, 160-161, 35-43.	10.8	67
39	Mechanistic aspects of the steam reforming of methanol over a CuO/ZnO/ZrO2/Al2O3 catalyst. Chemical Communications, 1999, , 2247-2248.	2.2	66
40	Influence of CO2 on the oxidative coupling of methane over a lithium promoted magnesium oxide catalyst. Journal of the Chemical Society Chemical Communications, 1987, , 1433.	2.0	65
41	Mechanism of the steam reforming of methane over a coprecipitated nickel-alumina catalyst. Journal of the Chemical Society Faraday Transactions I, 1973, 69, 10.	1.0	64
42	Oxidative dehydrogenation of propane over molybdenum-containing catalysts. Catalysis Today, 1997, 37, 33-42.	2.2	62
43	Differences in the Reactivity of Organo-Nitro and Nitrito Compounds over Al2O3-Based Catalysts Active for the Selective Reduction of NOx. Journal of Catalysis, 2001, 202, 340-353.	3.1	62
44	Influence of preparation method on the performance of vanadia-niobia catalysts for the oxidative dehydrogenation of propane. Catalysis Today, 1993, 16, 513-523.	2.2	59
45	The effect of potassium on the activity and stability of Niâ€“MgOâ€“ZrO2 catalysts for the dry reforming of methane to give synthesis gas. Catalysis Today, 2011, 178, 132-136.	2.2	59
46	Stable Nickel-Containing Catalysts for the Oxidative Coupling of Methane. Journal of Catalysis, 1994, 145, 402-408.	3.1	58
47	Influence of ethanol washing of the hydrous precursor on the textural and structural properties of zirconia. Journal of Materials Science, 1992, 27, 4890-4898.	1.7	57
48	Vapour phase hydrogenation of olefins by formic acid over a Pd/C catalyst. Catalysis Today, 2011, 163, 42-46.	2.2	56
49	Lithium chemistry of lithium doped magnesium oxide catalysts used in the oxidative coupling of methane. Applied Catalysis, 1990, 58, 131-146.	1.1	54
50	Title is missing!. Catalysis Letters, 2002, 80, 123-128.	1.4	54
51	Preparation and characterization of lanthanum zirconate. Journal of Materials Science, 1998, 33, 4517-4523.	1.7	51
52	The use of niobia in oxidation catalysis. Catalysis Today, 1993, 16, 503-511.	2.2	46
53	Catalytic control of diesel engine particulate emission: Studies on model reactions over a EuroPt-1 (Pt/SiO2) catalyst. Applied Catalysis B: Environmental, 1993, 2, 183-197.	10.8	46
54	An In-situ DRIFTS Study of the Mechanism of the CO2 Reforming of CH4 over a Pt/ZrO2 Catalyst. Studies in Surface Science and Catalysis, 1998, 119, 819-824.	1.5	46

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55	Title is missing!. Kinetics and Catalysis, 2003, 44, 379-400.	0.3	46
56	The preparation and properties of coprecipitated Cuâ€“Zrâ€“Y and Cuâ€“Zrâ€“La catalysts used for the steam reforming of methanol. Catalysis Today, 2007, 127, 291-294.	2.2	45
57	Vapour phase formic acid decomposition over PdAu/Î³-Al2O3 catalysts: Effect of composition of metallic particles. Journal of Catalysis, 2013, 299, 171-180.	3.1	45
58	An investigation of the mechanism of the hydrodesulfurization of thiophene over sulfided Co$z.sbnd;Mo/Al2O3 catalysts II. The effect of promotion by cobalt on the C$z.sbnd;S bond cleavage and double-bond hydrogenation/dehydrogenation activities of tetrahydrothiophene and related compounds. Journal of Catalysis, 1979, 56, 363-376.	3.1	44
59	The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents. Applied Catalysis, 1986, 27, 41-53.	1.1	43
60	Supported Pd Catalysts Prepared via Colloidal Method: The Effect of Acids. ACS Catalysis, 2013, 3, 2341-2352.	5.5	43
61	Methane activation - a bibliography. Catalysis Today, 1989, 4, 471-494.	2.2	42
62	A Low-Energy Ion Scattering (LEIS) Study of the Influence of the Vanadium Concentration on the Activity of Vanadium-Niobium Oxide Catalysts for the Oxidative Dehydrogenation of Propane. Journal of Catalysis, 1995, 157, 584-591.	3.1	42
63	Oxidative coupling of methane over Ba/CaO catalysts. Applied Catalysis, 1990, 59, 291-309.	1.1	40
64	Formic acid decomposition over palladium based catalysts doped by potassium carbonate. Catalysis Today, 2016, 259, 453-459.	2.2	38
65	Contact angle studies of some low energy polymer surfaces. Journal of the Chemical Society Faraday Transactions I, 1972, 68, 1190.	1.0	37
66	Reaction path of the oxidative coupling of methane over a lithium-doped magnesium oxide catalyst. Applied Catalysis, 1989, 52, 147-156.	1.1	37
67	The effect of addition of a third component on the behaviour of the lithium doped magnesium catalysts for the oxidative dehydrogenation of ethane. Catalysis Today, 1992, 13, 629-634.	2.2	37
68	The development of platinum-zirconia catalysts for the CO2 reforming of methane. Studies in Surface Science and Catalysis, 1997, 107, 537-546.	1.5	37
69	Investigation of nickel supported catalysts for the upgrading of brown peat derived gasification products. Bioresource Technology, 2001, 80, 111-116.	4.8	37
70	Nickel catalysts for internal reforming in molten carbonate fuel cells. Applied Catalysis A: General, 1996, 143, 343-365.	2.2	36
71	Nanocomposite catalysts for internal steam reforming of methane and biofuels in solid oxide fuel cells: Design and performance. Catalysis Today, 2009, 146, 132-140.	2.2	36
72	Transformation of CH4 and liquid fuels into syngas on monolithic catalysts. Fuel, 2010, 89, 1230-1240.	3.4	36

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73	Studies on the promotion of nickelâ€"alumina coprecipitated catalysts. Applied Catalysis, 1988, 45, 257-280.	1.1	35
74	The silver-oxygen interaction in relation to oxidative dehydrogenation of methanol. Applied Catalysis, 1987, 31, 291-308.	1.1	34
75	Investigation of V2O5/Nb2O5 Catalysts by 51V Solid-State NMR. The Journal of Physical Chemistry, 1995, 99, 9169-9175.	2.9	34
76	The effect of sodium on the methanation activity of nickel/alumina coprecipitated catalysts. Applied Catalysis, 1981, 1, 23-29.	1.1	31
77	Supported CuO+Ag/Partially Stabilized Zirconia Catalysts for the Selective Catalytic Reduction of NOx under Lean Burn Conditions. Journal of Catalysis, 2001, 200, 117-130.	3.1	31
78	The effect of lanthanum additives on the catalytic activities of Ni-Al2O3 coprecipitated catalysts for the methanation of carbon monoxide. Journal of Molecular Catalysis, 1984, 25, 253-262.	1.2	30
79	Pt-Supported Nanocrystalline Ceria-Zirconia Doped with La, Pr or Gd: Factors Controlling Syngas Generation in Partial Oxidation/Autothermal Reforming of Methane or Oxygenates. Solid State Phenomena, 2007, 128, 239-248.	0.3	30
80	The influence of hydrogen treatment and catalyst morphology on the interaction of oxygen with a silver catalyst. Applied Catalysis, 1987, 34, 329-339.	1.1	29
81	The selective oxidative dehydrogenation of propane over niobium pentoxide. Journal of the Chemical Society Chemical Communications, 1991, , 558.	2.0	29
82	Title is missing!. Topics in Catalysis, 2001, 16/17, 193-197.	1.3	29
83	Infrared investigation of the adsorption and reactions of methanol on a vanadium pentoxide/titania catalyst. Langmuir, 1987, 3, 668-673.	1.6	28
84	Nitrogen containing species as intermediates in the oxidation of ammonia over silica supported molybdena catalysts. Applied Catalysis A: General, 1992, 86, 165-179.	2.2	28
85	Catalytic conditioning of organic volatile products produced by peat pyrolysis. Biomass and Bioenergy, 2002, 23, 209-216.	2.9	28
86	The CO2 reforming of the hydrocarbons present in a model gas stream over selected catalysts. Fuel Processing Technology, 2002, 75, 45-53.	3.7	28
87	Catalytic oxidation of butane to maleic anhydride enhanced yields in the presence of CO2 in the reactor feed. Applied Catalysis A: General, 2001, 210, 271-274.	2.2	25
88	TAP reactor investigation of methane coupling over samarium oxide catalysts. Applied Catalysis, 1991, 77, 45-53.	1.1	24
89	The use of differential scanning calorimetry in catalyst studies. The methanation of carbon monoxide over nickel/alumina catalysts. Journal of Catalysis, 1975, 40, 281-285.	3.1	22
90	Effect of temperature of reduction on the activity and selectivity of a coprecipitated Niâ€"Al2O3catalyst for the Fischerâ€"Tropsch and methanation reactions. Journal of the Chemical Society Chemical Communications, 1977, , 734-735.	2.0	20

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91	The selective reduction of NOx with NH3 over zirconia-supported vanadia catalysts. Catalysis Today, 1993, 16, 237-245.	2.2	20
92	Catalysis with membranes or catalytic membranes?. Catalysis Today, 1995, 25, 291-301.	2.2	20
93	Kinetic Study of CO2 Reforming of Propane over Ru/Al2O3. Catalysis Letters, 2001, 75, 175-181.	1.4	20
94	The role of tin in Li/Sn/MgO catalysts for the oxidative coupling of methane. Journal of the Chemical Society Chemical Communications, 1992, , 1546.	2.0	19
95	The kinetic and mechanistic aspects of the oxidative dehydrogenation of ethane over Li/Na/MgO catalysts. Catalysis Today, 1992, 13, 201-208.	2.2	19
96	New insights into the origin of NO2 in the mechanism of the selective catalytic reduction of NO by propene over alumina. Chemical Communications, 1999, , 259-260.	2.2	19
97	The oxidative coupling of methane and the oxidative dehydrogenation of ethane over a niobium promoted lithium doped magnesium oxide catalyst. Catalysis Today, 1993, 16, 537-546.	2.2	18
98	The Critical Surface Tension of Wool. Textile Reseach Journal, 1979, 49, 34-40.	1.1	15
99	Possible intermediates in the selective catalytic reduction of NOx: differences in the reactivity of nitro-compounds and tert-butyl nitrite over Î³-Al2O3. Chemical Communications, 1999, , 815-816.	2.2	15
100	Selective oxidation of n-butane to maleic anhydride under oxygen-deficient conditions over V-P-O mixed oxides. Applied Catalysis, 1987, 31, 323-337.	1.1	14
101	Title is missing!. Catalysis Letters, 2002, 78, 111-114.	1.4	14
102	The steam reforming of ethane over nickel/alumina catalysts. Faraday Discussions of the Chemical Society, 1981, 72, 157.	2.2	13
103	Studies on the promotion of nickelâ€"alumina coprecipitated catalysts. Applied Catalysis, 1988, 45, 239-256.	1.1	13
104	TPR and infrared measurements with cu/zno/al2o3 based catalysts for the synthesis of methanol and higher alcohols from co + h2. Catalysis Today, 1992, 12, 481-490.	2.2	13
105	A modified kinetic expression for the methanation of carbon monoxide over group VIII metal catalysts. Journal of Catalysis, 1981, 71, 205-208.	3.1	12
106	8th International congress on catalysis. Applied Catalysis, 1984, 12, 284.	1.1	12
107	Kinetic studies of oxidative coupling of methane on samarium oxide. Catalysis Today, 1995, 24, 285-287.	2.2	12
108	The synthesis by depositionâ€"precipitation of porous Î³-alumina catalyst supports on glass substrates compatible with microreactor geometries. Catalysis Today, 2005, 110, 53-57.	2.2	11

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109	The interaction between silver and N2O in relation to the oxidative dehydrogenation of methanol. Journal of Catalysis, 1988, 114, 303-312.	3.1	10
110	Valence states of vanadia-on-titania/silica and molybdena-on-silica catalysts after reduction and oxidation. The Journal of Physical Chemistry, 1990, 94, 8598-8603.	2.9	10
111	Oxidative coupling of methane over doped Li/MgO catalysts. Catalysis Today, 1994, 21, 333-340.	2.2	10
112	Investigation of Alkali Carbonate Transport Toward the Catalyst in Internal Reforming MCFCs. Journal of the Electrochemical Society, 1996, 143, 3186-3191.	1.3	10
113	Supported CuO+Ag/Partially Stabilized Zirconia Catalysts for the Selective Catalytic Reduction of NOx under Lean Burn Conditions. Journal of Catalysis, 2001, 200, 131-139.	3.1	10
114	Potassium-Doped Niâ€“MgOâ€“ZrO2 Catalysts for Dry Reforming of Methane to Synthesis Gas. Topics in Catalysis, 2013, 56, 1686-1694.	1.3	10
115	Chemisorption and decomposition of tetramethylsilane over tungsten and iron surfaces. Journal of the Chemical Society Faraday Transactions I, 1972, 68, 221.	1.0	9
116	Development and screening of selective catalysts for the synthesis of clean liquid fuels. International Journal of Energy Research, 1994, 18, 185-196.	2.2	9
117	The synthesis of alcohols using Cu/ZnO/A12O3 + (Ce or Mn) catalysts. Topics in Catalysis, 1995, 2, 79-89.	1.3	9
118	A modified robotic system for catalyst preparation by wet or dry impregnation. Catalysis Today, 2003, 81, 369-375.	2.2	9
119	Physical adsorption of gases on Pyrex glass Evidence for superactivity. Journal of Catalysis, 1965, 4, 620-624.	3.1	8
120	The influence of water on the oxygenâ€“silver interaction and on the oxidative dehydrogenation of methanol. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 1491.	1.0	8
121	Kinetics f the dissociation of hydrogen sulphide by irn films. Transactions of the Faraday Society, 1966, 62, 2301.	0.9	6
122	An X-ray photoelectron spectroscopy study of the influence of hydrogen on the oxygenâ€“silver interaction. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 3161.	1.0	6
123	Title is missing!. Journal of Porous Materials, 1999, 6, 69-76.	1.3	5
124	Adsorption of neopentane on tungsten and palladium films. Journal of the Chemical Society Faraday Transactions I, 1972, 68, 914.	1.0	4
125	The preparation and properties of lanthanum-promoted nickel-alumina catalysts: Structure of the precipitates. Solid State Ionics, 1985, 16, 275-282.	1.3	4
126	The use of copper catalysts for the selective reduction of NO with methanol. Catalysis Today, 2008, 137, 146-156.	2.2	4

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127	Evidence for the participation of surface carbon in the steam reforming of ethane over nickel catalysts. Journal of the Chemical Society Chemical Communications, 1981, , 751.	2.0	3
128	The Oxidative Coupling of Methane Over Sm2O3 and La2O3. Studies in Surface Science and Catalysis, 1991, , 117-126.	1.5	1
129	Oxidative coupling of methane over K/Ni/Ca oxide and K/Ni/Mg oxide catalysts. Catalysis Today, 1994, 21, 401-408.	2.2	1
130	Nickel Catalysts for C1 Reactions: Recollections from a Career in Heterogeneous Catalysis. Topics in Catalysis, 2021, 64, 896-906.	1.3	1
131	The interaction of tetramethylsilane with an electron-emitting tungsten filament. Challenge, 1970, , 1170.	0.4	0