Gary Jacobs

List of Publications by Year
in descending order

244 papers	12,796 citations	19608 61 h-index	29081 104 g-index
254 all docs	254 docs citations	254 times ranked	7908 citing authors

#	Article	IF	Citations
1	Fischerâ€"Tropsch synthesis: support, loading, and promoter effects on the reducibility of cobalt catalysts. Applied Catalysis A: General, 2002, 233, 263-281.	2.2	757
2	Production of Hydrogen from Ethanol: Review of Reaction Mechanism and Catalyst Deactivation. Chemical Reviews, 2012, 112, 4094-4123.	23.0	640
3	Fischerâ€"Tropsch synthesis: Temperature programmed EXAFS/XANES investigation of the influence of support type, cobalt loading, and noble metal promoter addition to the reduction behavior of cobalt oxide particles. Applied Catalysis A: General, 2007, 333, 177-191.	2.2	302
4	Mixed-Phase Oxide Catalyst Based on Mn-Mullite (Sm, Gd)Mn ₂ O ₅ for NO Oxidation in Diesel Exhaust. Science, 2012, 337, 832-835.	6.0	279
5	Fischerâ€"Tropsch synthesis: deactivation of noble metal-promoted Co/Al2O3 catalysts. Applied Catalysis A: General, 2002, 233, 215-226.	2.2	231
6	Low temperature waterâ€"gas shift: in situ DRIFTS-reaction study of ceria surface area on the evolution of formates on Pt/CeO2 fuel processing catalysts for fuel cell applications. Applied Catalysis A: General, 2003, 252, 107-118.	2.2	228
7	Fischerâ€"Tropsch synthesis: characterization and catalytic properties of rhenium promoted cobalt alumina catalystsâ˜†. Fuel, 2003, 82, 805-815.	3.4	226
8	Water-gas shift: comparative screening of metal promoters for metal/ceria systems and role of the metal. Applied Catalysis A: General, 2004, 258, 203-214.	2.2	214
9	Study of catalyst deactivation and reaction mechanism of steam reforming, partial oxidation, and oxidative steam reforming of ethanol over Co/CeO2 catalyst. Journal of Catalysis, 2009, 268, 268-281.	3.1	213
10	Steam reforming, partial oxidation, and oxidative steam reforming of ethanol over Pt/CeZrO2 catalyst. Journal of Catalysis, 2008, 257, 356-368.	3.1	212
11	Low-Temperature Water-Gas Shift:Â In-Situ DRIFTSâˆ'Reaction Study of a Pt/CeO2Catalyst for Fuel Cell Reformer Applications. Journal of Physical Chemistry B, 2003, 107, 10398-10404.	1.2	206
12	CO and CO2 hydrogenation study on supported cobalt Fischerâ€"Tropsch synthesis catalysts. Catalysis Today, 2002, 71, 411-418.	2.2	191
13	Fischerâ€"Tropsch synthesis: study of the promotion of Re on the reduction property of Co/Al2O3 catalysts by in situ EXAFS/XANES of Co K and Re LIII edges and XPS. Applied Catalysis A: General, 2004, 264, 203-212.	2.2	190
14	Role of Keto Intermediates in the Hydrodeoxygenation of Phenol over Pd on Oxophilic Supports. ACS Catalysis, 2015, 5, 1318-1329.	5.5	186
15	Hydrogenation of Carbon Dioxide over Coâ€"Fe Bimetallic Catalysts. ACS Catalysis, 2016, 6, 913-927.	5.5	175
16	Hydrodeoxygenation of Phenol over Pd Catalysts. Effect of Support on Reaction Mechanism and Catalyst Deactivation. ACS Catalysis, 2017, 7, 2058-2073.	5.5	171
17	Low temperature waterâ€"gas shift: Characterization and testing of binary mixed oxides of ceria and zirconia promoted with Pt. Applied Catalysis A: General, 2006, 303, 35-47.	2.2	159
18	Fischerâ€"Tropsch synthesis: effect of water on the deactivation of Pt promoted Co/Al2O3 catalysts. Applied Catalysis A: General, 2002, 228, 203-212.	2.2	157

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19	Fischerâ€“Tropsch synthesis XAFS. Applied Catalysis A: General, 2003, 247, 335-343.	2.2	149
20	Evaluation of the performance of Ni/La2O3 catalyst prepared from LaNiO3 perovskite-type oxides for the production of hydrogen through steam reforming and oxidative steam reforming of ethanol. Applied Catalysis A: General, 2010, 377, 181-190.	2.2	147
21	Fischerâ€“Tropsch synthesis: effect of water on the catalytic properties of a Co/SiO2 catalyst. Applied Catalysis A: General, 2002, 236, 67-76.	2.2	145
22	Fischerâ€“Tropsch synthesis: Activity of metallic phases of cobalt supported on silica. Catalysis Today, 2013, 215, 13-17.	2.2	142
23	Fischerâ€“Tropsch synthesis: effect of water on Co/Al2O3 catalysts and XAFS characterization of reoxidation phenomena. Applied Catalysis A: General, 2004, 270, 65-76.	2.2	138
24	Steam reforming of ethanol over Pt/ceria with co-fed hydrogen. Journal of Catalysis, 2007, 245, 326-337.	3.1	138
25	Fischerâˆ'Tropsch Synthesis: An In-Situ TPR-EXAFS/XANES Investigation of the Influence of Group I Alkali Promoters on the Local Atomic and Electronic Structure of Carburized Iron/Silica Catalysts. Journal of Physical Chemistry C, 2010, 114, 7895-7903.	1.5	138
26	Effect of Zirconia Morphology on Hydrodeoxygenation of Phenol over Pd/ZrO₂. ACS Catalysis, 2015, 5, 7385-7398.	5.5	137
27	Ethanol decomposition and steam reforming of ethanol over CeZrO2 and Pt/CeZrO2 catalyst: Reaction mechanism and deactivation. Applied Catalysis A: General, 2009, 352, 95-113.	2.2	132
28	Fischerâ€“Tropsch Synthesis: Characterization and Reaction Testing of Cobalt Carbide. ACS Catalysis, 2011, 1, 1581-1588.	5.5	129
29	Steam and CO2 reforming of ethanol over Rh/CeO2 catalyst. Applied Catalysis B: Environmental, 2011, 102, 94-109.	10.8	120
30	Kinetic Model of Fischerâ€“Tropsch Synthesis in a Slurry Reactor on Coâ€“Re/Al₂O₃ Catalyst. Industrial & Engineering Chemistry Research, 2013, 52, 669-679.	1.8	110
31	Water-gas shift: in situ spectroscopic studies of noble metal promoted ceria catalysts for CO removal in fuel cell reformers and mechanistic implications. Applied Catalysis A: General, 2004, 262, 177-187.	2.2	105
32	Low temperature water-gas shift: Characterization of Pt-based ZrO2 catalyst promoted with Na discovered by combinatorial methods. Applied Catalysis A: General, 2007, 319, 47-57.	2.2	99
33	Fischerâ€“Tropsch synthesis: Effect of Pd, Pt, Re, and Ru noble metal promoters on the activity and selectivity of a 25%Co/Al2O3 catalyst. Applied Catalysis A: General, 2012, 437-438, 1-9.	2.2	99
34	Water-gas shift: an examination of Pt promoted MgO and tetragonal and monoclinic ZrO2 by in situ drifts. Applied Catalysis B: Environmental, 2005, 59, 45-56.	10.8	95
35	Low temperature water-gas shift: kinetic isotope effect observed for decomposition of surface formates for Pt/ceria catalysts. Applied Catalysis A: General, 2004, 269, 63-73.	2.2	94
36	Low temperature waterâ€“gas shift: The effect of alkali doping on the CH bond of formate over Pt/ZrO2 catalysts. Applied Catalysis A: General, 2007, 328, 14-26.	2.2	94

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37	Group 11 (Cu, Ag, Au) promotion of 15%Co/Al2O3 Fischerâ€“Tropsch synthesis catalysts. Applied Catalysis A: General, 2009, 361, 137-151.	2.2	92
38	Fischerâ€“Tropsch synthesis: effect of water on the catalytic properties of a ruthenium promoted Co/TiO2 catalyst. Applied Catalysis A: General, 2002, 233, 255-262.	2.2	90
39	Low temperature water-gas shift: Examining the efficiency of Au as a promoter for ceria-based catalysts prepared by CVD of a Au precursor. Applied Catalysis A: General, 2005, 292, 229-243.	2.2	87
40	An overview of Fischer-Tropsch Synthesis: XtL processes, catalysts and reactors. Applied Catalysis A: General, 2020, 608, 117740.	2.2	85
41	Low temperature water gas shift: the link between the catalysis of WGS and formic acid decomposition over Pt/ceria. International Journal of Hydrogen Energy, 2005, 30, 1265-1276.	3.8	84
42	Fischerâˆ'Tropsch Synthesis:â€‰ Kinetics and Effect of Water for a Co/SiO2Catalyst. Energy & Fuels, 2005, 19, 1430-1439.	2.5	84
43	Fischer-Tropsch synthesis: study of the promotion of Pt on the reduction property of Co/Al2O3catalysts byin situEXAFS of CoKand PtLIIIedges and XPS. Journal of Synchrotron Radiation, 2004, 11, 414-422.	1.0	81
44	Fischerâ€“Tropsch: Product Selectivityâ€“The Fingerprint of Synthetic Fuels. Catalysts, 2019, 9, 259.	1.6	80
45	Hydrodeoxygenation of phenol over niobia supported Pd catalyst. Catalysis Today, 2018, 302, 115-124.	2.2	79
46	Fischerâ€“Tropsch Synthesis: Influence of CO Conversion on Selectivities, H2/CO Usage Ratios, and Catalyst Stability for a Ru Promoted Co/Al2O3 Catalyst Using a Slurry Phase Reactor. Topics in Catalysis, 2011, 54, 757-767.	1.3	76
47	Fischerâ€“Tropsch synthesis: effect of small amounts of boron, ruthenium and rhenium on Co/TiO2 catalysts. Applied Catalysis A: General, 2002, 223, 195-203.	2.2	75
48	Reverse water-gas shift reaction: steady state isotope switching study of the reverse water-gas shift reaction using in situ DRIFTS and a Pt/ceria catalyst. Applied Catalysis A: General, 2005, 284, 31-38.	2.2	73
49	Fischerâ€“Tropsch synthesis: Support and cobalt cluster size effects on kinetics over Co/Al2O3 and Co/SiO2 catalysts. Fuel, 2011, 90, 756-765.	3.4	73
50	The effect of support reducibility on the stability of Co/CeO2 for the oxidative steam reforming of ethanol. Catalysis Today, 2011, 164, 234-239.	2.2	70
51	Effect of process conditions on the product distribution of Fischerâ€“Tropsch synthesis over a Re-promoted cobalt-alumina catalyst using a stirred tank slurry reactor. Journal of Catalysis, 2014, 311, 325-338.	3.1	69
52	H2 production through steam reforming of ethanol over Pt/ZrO2, Pt/CeO2 and Pt/CeZrO2 catalysts. Catalysis Today, 2008, 138, 162-168.	2.2	68
53	Novel Feâ€“Ni nanoparticle catalyst for the production of CO- and CO2-free H2 and carbon nanotubes by dehydrogenation of methane. Applied Catalysis A: General, 2008, 351, 102-110.	2.2	68
54	CO-insertion mechanism based kinetic model of the Fischerâ€“Tropsch synthesis reaction over Re-promoted Co catalyst. Catalysis Today, 2014, 228, 32-39.	2.2	68

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55	Characterization of the morphology of Pt clusters incorporated in a KL zeolite by vapor phase and incipient wetness impregnation. Influence of Pt particle morphology on aromatization activity and deactivation. Applied Catalysis A: General, 1999, 188, 79-98.	2.2	67
56	An exploration of activity loss during hydrodechlorination and hydrodebromination over Ni/SiO2. Journal of Catalysis, 2004, 223, 74-85.	3.1	66
57	New approaches to improving catalyst stability over Pt/ceria during ethanol steam reforming: Sn addition and CO2 co-feeding. Applied Catalysis B: Environmental, 2010, 96, 387-398.	10.8	66
58	Fischer-Tropsch synthesis: Effect of pretreatment conditions of cobalt on activity and selectivity for hydrogenation of carbon dioxide. Applied Catalysis A: General, 2015, 499, 39-46.	2.2	65
59	Hydrodeoxygenation of phenol over zirconia supported Pd bimetallic catalysts. The effect of second metal on catalyst performance. Applied Catalysis B: Environmental, 2018, 232, 213-231.	10.8	65
60	Increased CO2 hydrogenation to liquid products using promoted iron catalysts. Journal of Catalysis, 2019, 369, 239-248.	3.1	65
61	Fischerâ€"Tropsch synthesis: supercritical conversion using a Co/Al2O3 catalyst in a fixed bed reactorâ˜†. Fuel, 2003, 82, 1251-1260.	3.4	64
62	In situ DRIFTS investigation of the steam reforming of methanol over Pt/ceria. Applied Catalysis A: General, 2005, 285, 43-49.	2.2	64
63	Low temperature water-gas shift: Type and loading of metal impacts decomposition and hydrogen exchange rates of pseudo-stabilized formate over metal/ceria catalysts. Applied Catalysis A: General, 2006, 302, 14-21.	2.2	62
64	Fischerâ€"Tropsch synthesis: Comparisons between Pt and Ag promoted Co/Al2O3 catalysts for reducibility, local atomic structure, catalytic activity, and oxidationâ€"reduction (OR) cycles. Applied Catalysis A: General, 2013, 464-465, 165-180.	2.2	62
65	A kinetic and DRIFTS study of supported Pt catalysts for NO oxidation. Catalysis Letters, 2006, 110, 29-37.	1.4	61
66	Low temperature water gas shift: Type and loading of metal impacts forward decomposition of pseudo-stabilized formate over metal/ceria catalysts. Catalysis Today, 2005, 106, 259-264.	2.2	60
67	Low temperature waterâ€"gas shift: Applications of a modified SSITKAâ€"DRIFTS method under conditions of H2 co-feeding over metal/ceria and related oxides. Applied Catalysis A: General, 2007, 333, 192-201.	2.2	58
68	Low Temperature Waterâ€"Gas Shift: Alkali Doping to Facilitate Formate Câ€"H Bond Cleaving over Pt/Ceria Catalystsâ€"An Optimization Problem. Catalysis Letters, 2008, 120, 166-178.	1.4	58
69	Fischerâ€"Tropsch synthesis: Metalâ€"support interfacial contact governs oxygenates selectivity over CeO2 supported Ptâ€"Co catalysts. Applied Catalysis A: General, 2011, 393, 17-23.	2.2	58
70	NOx storage and reduction properties of model ceria-based lean NOx trap catalysts. Applied Catalysis B: Environmental, 2012, 119-120, 183-196.	10.8	58
71	Fischerâ€"Tropsch synthesis: Water effects on Co supported on narrow and wide-pore silica. Applied Catalysis A: General, 2005, 289, 135-142.	2.2	57
72	Low Temperature Waterâ€"Gas Shift/Methanol Steam Reforming: Alkali Doping to Facilitate the Scission of Formate and Methoxy Câ€"H Bonds over Pt/ceria Catalyst. Catalysis Letters, 2008, 122, 9-19.	1.4	57

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73	Hydrodeoxygenation of Phenol over Zirconiaâ€Supported Catalysts: The Effect of Metal Type on Reaction Mechanism and Catalyst Deactivation. ChemCatChem, 2017, 9, 2850-2863.	1.8	57
74	Hydrogen production from ethanol for PEM fuel cells. An integrated fuel processor comprising ethanol steam reforming and preferential oxidation of CO. Catalysis Today, 2009, 146, 110-123.	2.2	56
75	Fischerâˆ’Tropsch Synthesis: Influence of Mn on the Carburization Rates and Activities of Fe-Based Catalysts by TPR-EXAFS/XANES and Catalyst Testing. Journal of Physical Chemistry C, 2011, 115, 4783-4792.	1.5	56
76	The role of defect sites and oxophilicity of the support on the phenol hydrodeoxygenation reaction. Applied Catalysis B: Environmental, 2019, 249, 292-305.	10.8	56
77	The application of synchrotron methods in characterizing iron and cobalt Fischerâ€“Tropsch synthesis catalysts. Catalysis Today, 2013, 214, 100-139.	2.2	55
78	Effect of CO Conversion on the Product Distribution of a Co/Al2O3 Fischerâ€“Tropsch Synthesis Catalyst Using a Fixed Bed Reactor. Catalysis Letters, 2012, 142, 1382-1387.	1.4	53
79	Kinetics of deactivation by carbon of a cobalt Fischerâ€“Tropsch catalyst: Effects of CO and H2 partial pressures. Journal of Catalysis, 2015, 327, 33-47.	3.1	52
80	Surface interfaces in low temperature water-gas shift: The metal oxide synergy, the assistance of co-adsorbed water, and alkali doping. International Journal of Hydrogen Energy, 2010, 35, 3522-3536.	3.8	51
81	Fischerâ€“Tropsch Synthesis: Kinetics and Water Effect on Methane Formation over 25%Co/Î³-Al₂O₃ Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 2157-2166.	1.8	49
82	Low temperature waterâ€“gas shift: comparison of thoria and ceria catalysts. Applied Catalysis A: General, 2004, 267, 27-33.	2.2	48
83	Influence of Reduction Promoters on Stability of Cobalt/g-Alumina Fischer-Tropsch Synthesis Catalysts. Catalysts, 2014, 4, 49-76.	1.6	48
84	Water-gas shift: steady state isotope switching study of the water-gas shift reaction over Pt/ceria using in-situ DRIFTS. Catalysis Letters, 2005, 100, 147-152.	1.4	47
85	Low-temperature waterâ€“gas shift: Strategy to lower Pt loading by doping ceria with Ca2+ improves formate mobility/WGS rate by increasing surface O-mobility. Applied Catalysis A: General, 2011, 394, 105-116.	2.2	46
86	Fischerâ€“Tropsch synthesis: Kinetics and water effect study over 25%Co/Al2O3 catalysts. Catalysis Today, 2014, 228, 158-166.	2.2	46
87	Fischerâ€“Tropsch synthesis: 14C labeled 1-alkene conversion using supercritical conditions with Co/A12O3. Fuel, 2005, 84, 1093-1098.	3.4	45
88	Fischerâ€“Tropsch Synthesis: Morphology, Phase Transformation, and Carbonâ€Layer Growth of Ironâ€Based Catalysts. ChemCatChem, 2014, 6, 1952-1960.	1.8	45
89	Study of preparation parameters of powder and pelletized Pt/KL catalysts for n-hexane aromatization. Applied Catalysis A: General, 2001, 206, 267-282.	2.2	44
90	Fischerâ€“Tropsch Synthesis: Effect of Water Over Iron-Based Catalysts. Catalysis Letters, 2010, 140, 98-105.	1.4	44

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91	Comparative Study ofn-Hexane Aromatization on Pt/KL, Pt/Mg(Al)O, and Pt/SiO2Catalysts: Clean and Sulfur-Containing Feeds. Journal of Catalysis, 1998, 179, 43-55.	3.1	43
92	Fischerâ€“Tropsch synthesis: Deactivation of promoted and unpromoted cobaltâ€“alumina catalysts. Catalysis Letters, 2005, 101, 187-190.	1.4	43
93	Aromatization of hexane over Pt/KL catalyst: Role of intracrystalline diffusion on catalyst performance using isotope labeling. Journal of Catalysis, 2010, 270, 242-248.	3.1	42
94	Fischerâˆ’Tropsch Synthesis:â€‰ Assessment of the Ripening of Cobalt Clusters and Mixing between Co and Ru Promoter via Oxidationâˆ’Reduction-Cycles over Lower Co-Loaded Ruâˆ’Co/Al₂O₃ Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 672-680.	1.8	41
95	Influence of carbide formation on oxygenates selectivity during Fischer-Tropsch synthesis over Ce-containing Co catalysts. Catalysis Today, 2016, 261, 40-47.	2.2	41
96	From Dose to Response: In Vivo Nanoparticle Processing and Potential Toxicity. Advances in Experimental Medicine and Biology, 2017, 947, 71-100.	0.8	41
97	Role of the metal-support interface in the hydrodeoxygenation reaction of phenol. Applied Catalysis B: Environmental, 2020, 277, 119238.	10.8	41
98	Increased Sulfur Tolerance of Pt/KL Catalysts Prepared by Vapor-Phase Impregnation and Containing a Tm Promoter. Journal of Catalysis, 2000, 191, 116-127.	3.1	37
99	Low Temperature Waterâ€“Gas Shift Reaction Over Alkali Metal Promoted Cobalt Carbide Catalysts. Topics in Catalysis, 2014, 57, 612-618.	1.3	37
100	Fischerâ€“Tropsch synthesis: TPR and XANES analysis of the impact of simulated regeneration cycles on the reducibility of Co/alumina catalysts with different promoters (Pt, Ru, Re, Ag, Au, Rh, Ir). Catalysis Today, 2014, 228, 15-21.	2.2	37
101	Conversion of CO₂ over a Co-Based Fischerâ€“Tropsch Catalyst. Industrial & Engineering Chemistry Research, 2015, 54, 1189-1196.	1.8	36
102	Quantitative comparison of iron and cobalt based catalysts for the Fischer-Tropsch synthesis under clean and poisoning conditions. Catalysis Today, 2020, 343, 125-136.	2.2	35
103	Low Temperature Waterâ€“Gas Shift: Role of Pretreatment on Formation of Surface Carbonates and Formates. Catalysis Letters, 2004, 96, 97-105.	1.4	34
104	Poisoning of cobalt catalyst used for Fischerâ€“Tropsch synthesis. Catalysis Today, 2013, 215, 67-72.	2.2	34
105	Fischerâ€“Tropsch Synthesis: Deactivation as a Function of Potassium Promoter Loading for Precipitated Iron Catalyst. Catalysis Letters, 2014, 144, 1704-1716.	1.4	34
106	Fischerâ€“Tropsch Synthesis: Higher Oxygenate Selectivity of Cobalt Catalysts Supported on Hydrothermal Carbons. ACS Catalysis, 2014, 4, 1662-1672.	5.5	34
107	Alumina Supported Auâ€“Ni: Surface Synergism in the Gas Phase Hydrogenation of Nitro-Compounds. Journal of Physical Chemistry C, 2012, 116, 11166-11180.	1.5	33
108	Fischerâ€“Tropsch synthesis: Attempt to tune FTS and WGS by alkali promoting of iron catalysts. Applied Catalysis A: General, 2010, 389, 131-139.	2.2	32

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109	Fischerâ€“Tropsch synthesis: effect of ammonia impurities in syngas feed over a cobalt/alumina catalyst. Applied Catalysis A: General, 2013, 468, 38-43.	2.2	31
110	Fischerâ€“Tropsch synthesis: Effect of catalyst particle (sieve) size range on activity, selectivity, and aging of a Pt promoted Co/Al2O3 catalyst. Chemical Engineering Journal, 2014, 249, 279-284.	6.6	31
111	Effect of aging on NOx reduction in coupled LNTâ€“SCR systems. Applied Catalysis B: Environmental, 2014, 148-149, 51-61.	10.8	31
112	Hydrogenation of Carbon Dioxide over Kâ€Promoted FeCo Bimetallic Catalysts Prepared from Mixed Metal Oxalates. ChemCatChem, 2017, 9, 1303-1312.	1.8	31
113	Fischerâ€“Tropsch Synthesis: Effect of K Loading on the Waterâ€“Gas Shift Reaction and Liquid Hydrocarbon Formation Rate over Precipitated Iron Catalysts. Topics in Catalysis, 2014, 57, 561-571.	1.3	30
114	Fischerâ€“Tropsch synthesis: Effect of ammonia in syngas on the Fischerâ€“Tropsch synthesis performance of a precipitated iron catalyst. Journal of Catalysis, 2015, 326, 149-160.	3.1	30
115	Fischerâ€“Tropsch synthesis: MÃ¶ssbauer investigation of iron containing catalysts for hydrogenation of carbon dioxide. Catalysis Today, 2013, 207, 50-56.	2.2	28
116	Fischer Tropsch synthesis: Deuterium isotopic study for the formation of oxygenates over CeO2 supported Ptâ€“Co catalysts. Catalysis Communications, 2012, 25, 12-17.	1.6	27
117	Fischerâ€“Tropsch synthesis: Effect of ammonia on supported cobalt catalysts. Journal of Catalysis, 2016, 337, 80-90.	3.1	27
118	Effect of sodium loading on Pt/ZrO2 during ethanol steam reforming. Applied Catalysis A: General, 2021, 610, 117947.	2.2	27
119	Low Temperature Water Gas Shift: Evaluation of Pt/HfO₂ and Correlation between Reaction Mechanism and Periodic Trends in Tetravalent (Ti, Zr, Hf, Ce, Th) Metal Oxides. ACS Catalysis, 2011, 1, 1375-1383.	5.5	26
120	Hydrocracking and Hydroisomerization of n-Hexadecane, n-Octacosane and Fischerâ€“Tropsch Wax Over a Pt/SiO2â€“Al2O3 Catalyst. Catalysis Letters, 2012, 142, 1295-1305.	1.4	26
121	Fischerâ€“Tropsch Synthesis: TPR-XAFS Analysis of Co/Silica and Co/Alumina Catalysts Comparing a Novel NO Calcination Method with Conventional Air Calcination. Catalysis Letters, 2010, 140, 106-115.	1.4	25
122	Selectivity control of Cu promoted iron-based Fischer-Tropsch catalyst by tuning the oxidation state of Cu to mimic K. Applied Catalysis A: General, 2015, 495, 45-53.	2.2	25
123	Fischerâ€“Tropsch synthesis and water gas shift kinetics for a precipitated iron catalyst. Catalysis Today, 2016, 275, 49-58.	2.2	25
124	Sodium doping of Pt/m-ZrO2 promotes Câ€“C scission and decarboxylation during ethanol steam reforming. International Journal of Hydrogen Energy, 2020, 45, 18490-18501.	3.8	25
125	Fischer-Tropsch Synthesis: Influence of Support on the Impact of Co-Fed Water for Cobalt-Based Catalysts. Studies in Surface Science and Catalysis, 2007, , 217-253.	1.5	24
126	Preparation and characterization of cerium oxide templated from activated carbon. Journal of Materials Science, 2007, 42, 3454-3464.	1.7	24

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127	Studies on KIT-6 Supported Cobalt Catalyst for Fischerâ€“Tropsch Synthesis. Catalysis Letters, 2010, 134, 37-44.	1.4	24
128	Dehydrogenation of propane over Pt/KL catalyst: Investigating the role of L-zeolite structure on catalyst performance using isotope labeling. Applied Catalysis A: General, 2010, 390, 264-270.	2.2	24
129	Fischerâ€“Tropsch Synthesis: Effect of Reaction Temperature for Aqueous-Phase Synthesis Over a Platinum Promoted Co/Alumina Catalyst. Catalysis Letters, 2014, 144, 1088-1095.	1.4	24
130	Applications of isotopic tracers in Fischerâ€“Tropsch synthesis. Catalysis Science and Technology, 2014, 4, 3927-3944.	2.1	24
131	Fischerâ€“Tropsch synthesis: Pore size and Zr promotional effects on the activity and selectivity of 25%Co/Al2O3 catalysts. Applied Catalysis A: General, 2014, 475, 314-324.	2.2	24
132	Variation of residence time with chain length for products in a slurry-phase Fischerâ€“Tropsch reactor. Journal of Catalysis, 2012, 287, 93-101.	3.1	23
133	CO Hydrogenation: Exploring Iridium as a Promoter for Supported Cobalt Catalysts by TPR-EXAFS/XANES and Reaction Testing. Catalysis Letters, 2011, 141, 968-976.	1.4	22
134	Fischerâ€“Tropsch Synthesis: Deuterium Kinetic Isotope Study for Hydrogenation of Carbon Oxides Over Cobalt and Iron Catalysts. Catalysis Letters, 2011, 141, 1420-1428.	1.4	22
135	Fischerâ€“Tropsch Synthesis: Investigation of the Partitioning of Dissociated H₂ and D₂ on Activated Cobalt Catalysts. ACS Catalysis, 2012, 2, 1452-1456.	5.5	22
136	Fischerâ€“Tropsch Synthesis: Differences Observed in Local Atomic Structure and Selectivity with Pd Compared to Typical Promoters (Pt, Re, Ru) of Co/Al2O3 Catalysts. Topics in Catalysis, 2012, 55, 811-817.	1.3	22
137	Effect of Cobalt Particle Size on the Catalyst Intrinsic Activity for Fischerâ€“Tropsch Synthesis. Catalysis Letters, 2014, 144, 389-394.	1.4	22
138	Hydrodeoxygenation of phenol using nickel phosphide catalysts. Study of the effect of the support. Catalysis Today, 2020, 356, 366-375.	2.2	22
139	Fischerâ€“Tropsch Synthesis: Characterization Rb Promoted Iron Catalyst. Catalysis Letters, 2008, 121, 1-11.	1.4	21
140	Water-gas shift: Characterization and testing of nanoscale YSZ supported Pt catalysts. Applied Catalysis A: General, 2015, 497, 184-197.	2.2	21
141	Effect of H2S in syngas on the Fischerâ€“Tropsch synthesis performance of a precipitated iron catalyst. Applied Catalysis A: General, 2016, 513, 127-137.	2.2	21
142	Effect of sequence of P and Co addition over silica for Fischer-Tropsch synthesis. Applied Catalysis A: General, 2017, 538, 190-198.	2.2	21
143	Fischer-Tropsch synthesis: Direct cobalt nitrate reduction of promoted Co/TiO2 catalysts. Fuel, 2019, 245, 488-504.	3.4	21
144	CO2 methanation over metal catalysts supported on ZrO2: Effect of the nature of the metallic phase on catalytic performance. Chemical Engineering Science, 2021, 239, 116604.	1.9	21

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145	Fischerâ€“Tropsch Synthesis: Effect of Activation Gas After Varying Cu Promoter Loading Over K-Promoted Fe-Based Catalyst. Catalysis Letters, 2014, 144, 1624-1635.	1.4	20
146	Titania Supported Ru Nanoclusters as Catalysts for Hydrodeoxygenation of Pyrolysis Oils. Catalysis Letters, 2016, 146, 525-539.	1.4	20
147	Effect of alkali on C H bond scission over Pt/YSZ catalyst during water-gas-shift, steam-assisted formic acid decomposition and methanol steam reforming. Catalysis Today, 2017, 291, 29-35.	2.2	20
148	Hydrodeoxygenation of Lignin-Derived Compound Mixtures on Pd-Supported on Various Oxides. ACS Sustainable Chemistry and Engineering, 2021, 9, 12870-12884.	3.2	20
149	Fischer-Tropsch synthesis: Anchoring of cobalt particles in phosphorus modified cobalt/silica catalysts. Applied Catalysis A: General, 2016, 523, 146-158.	2.2	19
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