

# Guido Busca

## List of Publications by Year in descending order

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513  
papers

35,932  
citations

2970

93  
h-index

5820

161  
g-index

554  
all docs

554  
docs citations

554  
times ranked

21179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and mechanistic aspects of the selective catalytic reduction of NO by ammonia over oxide catalysts: A review. <i>Applied Catalysis B: Environmental</i> , 1998, 18, 1-36.	10.8	1,981
2	Technologies for the removal of phenol from fluid streams: A short review of recent developments. <i>Journal of Hazardous Materials</i> , 2008, 160, 265-288.	6.5	1,057
3	Infrared spectroscopic identification of species arising from reactive adsorption of carbon oxides on metal oxide surfaces. <i>Materials Chemistry</i> , 1982, 7, 89-126.	0.4	814
4	Acid Catalysts in Industrial Hydrocarbon Chemistry. <i>Chemical Reviews</i> , 2007, 107, 5366-5410.	23.0	581
5	FT-IR study of the adsorption and transformation of formaldehyde on oxide surfaces. <i>Journal of the American Chemical Society</i> , 1987, 109, 5197-5202.	6.6	555
6	The surface acidity of solid oxides and its characterization by IR spectroscopic methods. An attempt at systematization. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 723-736.	1.3	480
7	Exploring, Tuning, and Exploiting the Basicity of Hydrotalcites for Applications in Heterogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2009, 15, 3920-3935.	1.7	450
8	Spectroscopic characterization of the acid properties of metal oxide catalysts. <i>Catalysis Today</i> , 1998, 41, 191-206.	2.2	445
9	Fourier transform-infrared study of the adsorption and coadsorption of nitric oxide, nitrogen dioxide and ammonia on vanadia-titania and mechanism of selective catalytic reduction. <i>Applied Catalysis</i> , 1990, 64, 259-278.	1.1	405
10	Adsorption, Activation, and Oxidation of Ammonia over SCR Catalysts. <i>Journal of Catalysis</i> , 1995, 157, 523-535.	3.1	387
11	FT-IR characterization of the surface acidity of different titanium dioxide anatase preparations. <i>Applied Catalysis</i> , 1985, 14, 245-260.	1.1	372
12	Ammonia activation over catalysts for the selective catalytic reduction of NO <sub>x</sub> and the selective catalytic oxidation of NH <sub>3</sub> . An FT-IR study. <i>Catalysis Today</i> , 1996, 28, 373-380.	2.2	368
13	Reactivity and Physicochemical Characterization of V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> De-NO Catalysts. <i>Journal of Catalysis</i> , 1995, 155, 117-130.	3.1	355
14	Characterization and Reactivity of V <sub>2</sub> O <sub>5</sub> -MoO <sub>3</sub> /TiO <sub>2</sub> De-NO <sub>x</sub> SCR Catalysts. <i>Journal of Catalysis</i> , 1999, 187, 419-435.	3.1	326
15	Catalytic combustion of C <sub>3</sub> hydrocarbons and oxygenates over Mn <sub>3</sub> O <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , 1998, 16, 43-51.	10.8	300
16	An FT-IR study of ammonia adsorption and oxidation over anatase-supported metal oxides. <i>Applied Catalysis B: Environmental</i> , 1997, 13, 45-58.	10.8	292
17	The surface of transitional aluminas: A critical review. <i>Catalysis Today</i> , 2014, 226, 2-13.	2.2	286
18	Infrared studies of the reactive adsorption of organic molecules over metal oxides and of the mechanisms of their heterogeneously-catalyzed oxidation. <i>Catalysis Today</i> , 1996, 27, 457-496.	2.2	277

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19	Vibrational and electronic spectroscopic properties of zirconia powders. <i>Journal of Materials Chemistry</i> , 2001, 11, 1891-1897.	6.7	271
20	Magnetic properties of partially-inverted zinc ferrite aerogel powders. <i>Journal of Applied Physics</i> , 1997, 81, 1851-1857.	1.1	257
21	Production of hydrogen from oxidative steam reforming of methanol. Preparation and characterization of Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> catalysts from a hydrotalcite-like LDH precursor. <i>Journal of Catalysis</i> , 2004, 228, 43-55.	3.1	239
22	A study of the methanation of carbon dioxide on Ni/Al <sub>2</sub> O <sub>3</sub> catalysts at atmospheric pressure. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11557-11565.	3.8	225
23	Fourier transform infrared study of the adsorption and coadsorption of nitric oxide, nitrogen dioxide and ammonia on TiO <sub>2</sub> anatase. <i>Applied Catalysis</i> , 1990, 64, 243-257.	1.1	223
24	An FT-IR study of the adsorption of urea and ammonia over V <sub>2</sub> O <sub>5</sub> –MoO <sub>3</sub> –TiO <sub>2</sub> SCR catalysts. <i>Applied Catalysis B: Environmental</i> , 2000, 27, L145-L151.	10.8	222
25	Spectroscopic Characterization of Silicalite-1 and Titanium Silicalite-1. <i>Journal of Catalysis</i> , 1995, 157, 482-500.	3.1	212
26	Acidity and basicity of zeolites: A fundamental approach. <i>Microporous and Mesoporous Materials</i> , 2017, 254, 3-16.	2.2	200
27	Mechanism of selective methanol oxidation over vanadium oxide-titanium oxide catalysts: a FT-IR and flow reactor study. <i>The Journal of Physical Chemistry</i> , 1987, 91, 5263-5269.	2.9	199
28	FT Raman and FTIR studies of titanias and metatitanate powders. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 3181.	1.7	199
29	Characterization of alumina-supported Pt, Ni and PtNi alloy catalysts for the dry reforming of methane. <i>Journal of Catalysis</i> , 2010, 274, 11-20.	3.1	199
30	Characterization of manganese and iron oxides as combustion catalysts for propane and propene. <i>Applied Catalysis B: Environmental</i> , 1998, 17, L175-L182.	10.8	195
31	Characterization of tungsta-titania catalysts. <i>Langmuir</i> , 1992, 8, 1744-1749.	1.6	193
32	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. <i>Journal of Catalysis</i> , 1998, 179, 581-596.	3.1	188
33	Acid sites characterization of niobium phosphate catalysts and their activity in fructose dehydration to 5-hydroxymethyl-2-furaldehyde. <i>Journal of Molecular Catalysis A</i> , 2000, 151, 233-243.	4.8	187
34	Selective saccharides dehydration to 5-hydroxymethyl-2-furaldehyde by heterogeneous niobium catalysts. <i>Applied Catalysis A: General</i> , 1999, 183, 295-302.	2.2	185
35	Solid-State and Surface Spectroscopic Characterization of BaTiO <sub>3</sub> Fine Powders. <i>Chemistry of Materials</i> , 1994, 6, 955-961.	3.2	184
36	Nature and mechanism of formation of vanadyl pyrophosphate: Active phase in n-butane selective oxidation. <i>Journal of Catalysis</i> , 1986, 99, 400-414.	3.1	183

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37	Low-temperature CO <sub>2</sub> adsorption on metal oxides: spectroscopic characterization of some weakly adsorbed species. <i>Materials Chemistry and Physics</i> , 1991, 29, 425-435.	2.0	182
38	Bases and Basic Materials in Chemical and Environmental Processes. Liquid versus Solid Basicity. <i>Chemical Reviews</i> , 2010, 110, 2217-2249.	23.0	182
39	Surface sites on spinel-type and corundum-type metal oxide powders. <i>Langmuir</i> , 1993, 9, 1492-1499.	1.6	180
40	Methanation of carbon dioxide on Ru/Al <sub>2</sub> O <sub>3</sub> and Ni/Al <sub>2</sub> O <sub>3</sub> catalysts at atmospheric pressure: Catalysts activation, behaviour and stability. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9171-9182.	3.8	179
41	Dehydration of ethanol over zeolites, silica alumina and alumina: Lewis acidity, Brønsted acidity and confinement effects. <i>Applied Catalysis A: General</i> , 2015, 493, 77-89.	2.2	175
42	FT-113 study of the surface properties of the spinels NiAl <sub>2</sub> O <sub>4</sub> and CoAl <sub>2</sub> O <sub>4</sub> in relation to those of transitional aluminas. <i>Journal of Catalysis</i> , 1991, 131, 167-177.	3.1	172
43	Vibrational and XRD Study of the System CdWO <sub>4</sub> -CdMoO <sub>4</sub> . <i>Journal of Physical Chemistry B</i> , 1997, 101, 4358-4369.	1.2	171
44	A study of commercial transition aluminas and of their catalytic activity in the dehydration of ethanol. <i>Journal of Catalysis</i> , 2014, 311, 102-113.	3.1	171
45	Reactivity of V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> catalysts in the selective catalytic reduction of nitric oxide by ammonia. <i>Catalysis Today</i> , 1996, 29, 143-148.	2.2	168
46	Effects of crystal size and Si/Al ratio on the surface properties of H-ZSM-5 zeolites. <i>Applied Catalysis A: General</i> , 2006, 306, 78-84.	2.2	163
47	Characterization and composition of commercial V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> SCR catalysts. <i>Applied Catalysis B: Environmental</i> , 1996, 10, 299-311.	10.8	161
48	The Activation of Hydrocarbon CH Bonds over Transition Metal Oxide Catalysts: A FTIR Study of Hydrocarbon Catalytic Combustion over MgCr <sub>2</sub> O <sub>4</sub> . <i>Journal of Catalysis</i> , 1995, 151, 204-215.	3.1	160
49	Differentiation of mono-oxo and polyoxo and of monomeric and polymeric vanadate, molybdate and tungstate species in metal oxide catalysts by IR and Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 348-358.	1.2	157
50	Chemical and spectroscopic study of the nature of a vanadium oxide monolayer supported on a high-surface-area TiO <sub>2</sub> anatase. <i>Langmuir</i> , 1986, 2, 568-577.	1.6	150
51	Catalytic abatement of NO <sub>x</sub> : Chemical and mechanistic aspects. <i>Catalysis Today</i> , 2005, 107-108, 139-148.	2.2	150
52	On the surface structure of vanadia-titania catalysts: Combined laser-Raman and fourier transform-infrared investigation. <i>Journal of Catalysis</i> , 1989, 116, 586-589.	3.1	147
53	An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> SCR catalysts. <i>Applied Catalysis B: Environmental</i> , 2001, 30, 101-110.	10.8	147
54	On the mechanism of adsorption and separation of CO <sub>2</sub> on LTA zeolites: An IR investigation. <i>Vibrational Spectroscopy</i> , 2008, 46, 45-51.	1.2	145

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55	Characterization of cubic ceria-zirconia powders by X-ray diffraction and vibrational and electronic spectroscopy. <i>Solid State Sciences</i> , 2003, 5, 1369-1376.	1.5	144
56	Microcalorimetric and Fourier transform infrared spectroscopic studies of methanol adsorption on alumina. <i>The Journal of Physical Chemistry</i> , 1985, 89, 5433-5439.	2.9	143
57	Surface acidity of vanadyl pyrophosphate, active phase in n-butane selective oxidation. <i>The Journal of Physical Chemistry</i> , 1986, 90, 1337-1344.	2.9	143
58	Alumina-Supported Manganese Oxide Catalysts. <i>Journal of Catalysis</i> , 1994, 150, 105-116.	3.1	143
59	A study of Ni/La-Al <sub>2</sub> O <sub>3</sub> catalysts: A competitive system for CO <sub>2</sub> methanation. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 286-297.	10.8	142
60	Fourier transform IR study of NO <sub>x</sub> adsorption on a CuZSM-5 DeNO <sub>x</sub> catalyst. <i>Applied Catalysis B: Environmental</i> , 1996, 7, 251-267.	10.8	138
61	Textural and structural properties and surface acidity characterization of mesoporous silica-zirconia molecular sieves. <i>Journal of Solid State Chemistry</i> , 2003, 175, 159-169.	1.4	138
62	Production of hydrogen from oxidative steam reforming of methanol. Catalytic activity and reaction mechanism on Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> hydrotalcite-derived catalysts. <i>Journal of Catalysis</i> , 2004, 228, 56-65.	3.1	135
63	An FT-IR study of the internal and external surfaces of HZSM5 zeolite. <i>Applied Catalysis A: General</i> , 2000, 192, 125-136.	2.2	133
64	A review of catalytic processes for the destruction of PCDD and PCDF from waste gases. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 12-20.	10.8	132
65	Chemical, structural and mechanistic aspects on NO <sub>x</sub> SCR over commercial and model oxide catalysts. <i>Catalysis Today</i> , 1998, 42, 101-116.	2.2	129
66	Selective catalytic reduction of NO <sub>x</sub> by methane over Co-H-MFI and Co-H-FER zeolite catalysts: characterisation and catalytic activity. <i>Journal of Catalysis</i> , 2003, 214, 179-190.	3.1	129
67	Diethyl ether cracking and ethanol dehydration: Acid catalysis and reaction paths. <i>Chemical Engineering Journal</i> , 2015, 272, 92-101.	6.6	129
68	Hydrogen production by ethanol steam reforming over Ni catalysts derived from hydrotalcite-like precursors: Catalyst characterization, catalytic activity and reaction path. <i>Applied Catalysis A: General</i> , 2009, 355, 83-93.	2.2	127
69	Nickel versus cobalt catalysts for hydrogen production by ethanol steam reforming: Ni-Co-Zn-Al catalysts from hydrotalcite-like precursors. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5356-5366.	3.8	125
70	Fourier-transform infrared study of the surface properties of cobalt oxides. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 989.	1.7	121
71	Mullite-Type Structures in the Systems Al <sub>2</sub> O <sub>3</sub> -Me <sub>2</sub> O (Me = Na, K) and Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , 1992, 75, 1929-1934.	1.9	117
72	On the role of acidity in catalytic oxidation. <i>Catalysis Today</i> , 1996, 32, 133-143.	2.2	116

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73	Infrared study of the adsorption of nitrogen dioxide, nitric oxide and nitrous oxide on hematite. <i>Journal of Catalysis</i> , 1981, 72, 303-313.	3.1	114
74	FT-IR study of the surface of copper oxide. <i>Journal of Molecular Catalysis</i> , 1987, 43, 225-236.	1.2	114
75	Characterization of silica-titania mixed oxides. <i>Journal of Catalysis</i> , 1990, 125, 541-553.	3.1	114
76	CO <sub>2</sub> separation and landfill biogas upgrading: A comparison of 4A and 13X zeolite adsorbents. <i>Energy</i> , 2011, 36, 314-319.	4.5	114
77	The Role of Titania Support in Mo-Based Hydrodesulfurization Catalysts. <i>Journal of Catalysis</i> , 1999, 184, 59-67.	3.1	111
78	Infrared study of methanol, formaldehyde, and formic acid adsorbed on hematite. <i>Journal of Catalysis</i> , 1980, 66, 155-161.	3.1	109
79	FTIR studies on the selective oxidation and combustion of light hydrocarbons at metal oxide surfaces. Part 2. "Propane and propene oxidation on Co <sub>3</sub> O <sub>4</sub> . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 1587-1593.	1.7	107
80	Potassium doping of vanadia/titania de-NO <sub>x</sub> ing catalysts: Surface characterisation and reactivity study. <i>Applied Catalysis B: Environmental</i> , 1993, 3, 13-35.	10.8	106
81	A study of the surface acidity of acid-treated montmorillonite clay catalysts. <i>Journal of Molecular Catalysis A</i> , 2001, 168, 247-256.	4.8	106
82	Methanol oxidation over vanadia-based catalysts. <i>Applied Catalysis A: General</i> , 1997, 157, 387-408.	2.2	105
83	An EPR Study of the Surface Chemistry of the V <sub>2</sub> O <sub>5</sub> –WO <sub>3</sub> /TiO <sub>2</sub> Catalyst: Redox Behaviour and State of V(IV). <i>Journal of Catalysis</i> , 1997, 166, 195-205.	3.1	104
84	A study of Ni/Al <sub>2</sub> O <sub>3</sub> and Ni–La/Al <sub>2</sub> O <sub>3</sub> catalysts for the steam reforming of ethanol and phenol. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 21-34.	10.8	104
85	Abatement of ammonia and amines from waste gases: a summary. <i>Journal of Loss Prevention in the Process Industries</i> , 2003, 16, 157-163.	1.7	103
86	FT-IR study of the surface properties of polycrystalline vanadia. <i>Journal of Molecular Catalysis</i> , 1989, 50, 231-240.	1.2	101
87	On the Vibrational Spectra and Structure of FeCrO <sub>3</sub> and of the Ilmenite-Type Compounds CoTiO <sub>3</sub> and NiTiO <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , 1994, 112, 9-14.	1.4	100
88	Basic catalysis and catalysis assisted by basicity: FT-IR and TPD characterization of potassium-doped alumina. <i>Applied Catalysis A: General</i> , 2011, 400, 61-69.	2.2	99
89	Performance of ZrO <sub>2</sub> -supported Nb- and W-oxide in the gas-phase dehydration of glycerol to acrolein. <i>Journal of Catalysis</i> , 2013, 297, 93-109.	3.1	99
90	Yttria-stabilized zirconia (YSZ) supported Ni–Co alloys (precursor of SOFC anodes) as catalysts for the steam reforming of ethanol. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3728-3735.	3.8	98

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91	An investigation of the surface acidity of mesoporous Al-containing MCM-41 and of the external surface of ferrierite through pivalonitrile adsorption. <i>Applied Catalysis A: General</i> , 1999, 182, 225-235.	2.2	97
92	FT-IR study of the surface chemistry of anatase-supported vanadium oxide monolayer catalysts. <i>Langmuir</i> , 1986, 2, 577-582.	1.6	96
93	Surface and catalytic properties of Vanadia-Titania and Tungsta-Titania systems in the Selective Catalytic Reduction of nitrogen oxides. <i>Catalysis Today</i> , 1993, 17, 131-139.	2.2	95
94	Transition metal mixed oxides as combustion catalysts: preparation, characterization and activity mechanisms. <i>Catalysis Today</i> , 1997, 33, 239-249.	2.2	95
95	An FT-IR study of the conversion of 2-chloropropane, o-dichlorobenzene and dibenzofuran on V2O5-MoO3-TiO2 SCR-DeNOx catalysts. <i>Applied Catalysis B: Environmental</i> , 2002, 39, 343-352.	10.8	95
96	Oxidation and ammoxidation of toluene over vanadium-titanium oxide catalysts: A Fourier transform infrared and flow reactor study. <i>Journal of Catalysis</i> , 1987, 106, 471-482.	3.1	94
97	Gas-phase dehydration of glycerol to acrolein over Al2O3-, SiO2-, and TiO2-supported Nb- and W-oxide catalysts. <i>Journal of Catalysis</i> , 2013, 307, 170-184.	3.1	94
98	Methanation of carbon dioxide on Ru/Al2O3: Catalytic activity and infrared study. <i>Catalysis Today</i> , 2016, 277, 21-28.	2.2	94
99	An IR study of thermally stable V2O5-WO3 -TiO2 SCR catalysts modified with silica and rare-earth (Ce, Tj ETQq1 1,0,784314 rgBT /C	10.8	93
100	A FT-IR study of the adsorption of indole, carbazole, benzothiophene, dibenzothiophene and 4,6-dibenzothiophene over solid adsorbents and catalysts. <i>Applied Catalysis A: General</i> , 2002, 224, 167-178.	2.2	92
101	Bulk and surface properties of commercial kaolins. <i>Applied Clay Science</i> , 2010, 48, 446-454.	2.6	92
102	A study of Mn-Ti oxide powders and their behaviour in propane oxidation catalysis. <i>Journal of Materials Chemistry</i> , 1998, 8, 2525-2531.	6.7	91
103	A study of anatase-supported Mn oxide as catalysts for 2-propanol oxidation. <i>Applied Catalysis B: Environmental</i> , 1999, 22, 249-259.	10.8	90
104	A Fourier Transform Infrared (FTIR) Study of the Reaction of Triethoxysilane (TES) and Bis[3-triethoxysilylpropyl]tetrasulfane (TESPT) with the Surface of Amorphous Silica. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3563-3572.	1.2	90
105	Thermal stability of vanadia-titania catalysts. <i>Journal of Materials Chemistry</i> , 1993, 3, 1239-1249.	6.7	89
106	Characterization and hydrocarbon oxidation activity of coprecipitated mixed oxides Mn3O4/Al2O3. <i>Catalysis Today</i> , 2001, 70, 213-225.	2.2	89
107	Low-Temperature Dehydrogenation of Ethanol on Atomically Dispersed Gold Supported on ZnZrO <sub>2</sub> . <i>ACS Catalysis</i> , 2016, 6, 210-218.	5.5	89
108	Fourier transform infrared spectroscopic studies of the reactivity of vanadia-titania catalysts toward olefins. 1. Propylene. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8939-8945.	2.9	88

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109	One-step synthesis of a structurally organized mesoporous CuO-CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> system for the preferential CO oxidation. <i>Applied Catalysis A: General</i> , 2008, 335, 46-55.	2.2	88
110	Surface chemistry and reactivity of ceria-zirconia-supported palladium oxide catalysts for natural gas combustion. <i>Journal of Catalysis</i> , 2009, 263, 134-145.	3.1	86
111	Surface structure and reactivity of vanadium oxide supported on titanium dioxide. V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> (rutile) Catalysts prepared by Hydrolysis. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 237.	1.0	85
112	Anatase crystal growth and phase transformation to rutile in high-area TiO <sub>2</sub> , MoO <sub>3</sub> -TiO <sub>2</sub> and other TiO <sub>2</sub> -supported oxide catalytic systems. <i>Journal of Materials Chemistry</i> , 1995, 5, 1245-1249.	6.7	85
113	IR study of alkene allylic activation on magnesium ferrite and alumina catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 4687.	1.7	85
114	Microcalorimetric and FT-IR spectroscopic study of the adsorption of isopropyl alcohol and hexafluoroisopropyl alcohol on titanium dioxide. <i>Langmuir</i> , 1987, 3, 52-58.	1.6	84
115	Are the active sites of protonic zeolites generated by the cavities?. <i>Catalysis Today</i> , 2006, 116, 132-142.	2.2	84
116	Preparation, solid-state characterization, and surface chemistry of high-surface-area nickel-aluminum (Ni <sub>x</sub> Al <sub>2-2x</sub> O <sub>3-2x</sub> ) mixed oxides. <i>Chemistry of Materials</i> , 1992, 4, 595-605.	3.2	83
117	PREPARATION AND CHARACTERIZATION OF MAGNESIUM CHROMITE AND MAGNESIUM FERRITE AEROGELS. <i>Chemical Engineering Communications</i> , 1993, 123, 1-16.	1.5	82
118	A spectroscopic study of amorphous and crystalline Ti-containing silicas and their surface acidity. <i>Topics in Catalysis</i> , 2001, 15, 63-71.	1.3	82
119	On the mechanisms and the selectivity determining steps in syngas conversion over supported metal catalysts: An IR study. <i>Applied Catalysis A: General</i> , 2007, 316, 68-74.	2.2	82
120	Ethanol dehydration on silica-aluminas: Active sites and ethylene/diethyl ether selectivities. <i>Catalysis Communications</i> , 2015, 68, 110-115.	1.6	82
121	On the effect of dopants and additives on the state of surface vanadyl centers of vanadia-titania catalysts. <i>Catalysis Letters</i> , 1993, 18, 299-303.	1.4	81
122	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. <i>Journal of Catalysis</i> , 1997, 168, 334-348.	3.1	81
123	FT-IR study of the surface properties of silicon nitride. <i>Materials Chemistry and Physics</i> , 1986, 14, 123-140.	2.0	80
124	Use of overtone bands to monitor the state of the catalyst active phases during infrared studies of adsorption and catalytic reactions. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1986, 42, 443-445.	0.1	80
125	Structural effects on the adsorption of alcohols on titanium dioxides. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987, 83, 1591.	1.0	80
126	IR studies on the activation of C-H hydrocarbon bonds on oxidation catalysts. <i>Catalysis Today</i> , 1999, 49, 453-465.	2.2	80



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127	An IR study of methanol steam reforming over ex-hydrotalcite Cu-Zn-Al catalysts. <i>Journal of Molecular Catalysis A</i> , 2007, 266, 188-197.	4.8	79
128	Surface characterization of amorphous alumina and its crystallization products. <i>Journal of Catalysis</i> , 1989, 117, 42-51.	3.1	78
129	Spectroscopic characterization of magnesium vanadate catalysts. Part 1. Vibrational characterization of Mg <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> , Mg <sub>2</sub> V <sub>2</sub> O <sub>7</sub> and MgV <sub>2</sub> O <sub>6</sub> powders. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 1161-1170.	1.7	77
130	Characterization and reactivity of MoO <sub>3</sub> /SiO <sub>2</sub> catalysts in the selective catalytic oxidation of ammonia to N <sub>2</sub> . <i>Catalysis Today</i> , 2000, 61, 187-195.	2.2	77
131	Methanol steam reforming over ex-hydrotalcite Cu-Zn-Al catalysts. <i>Applied Catalysis A: General</i> , 2006, 310, 70-78.	2.2	77
132	Influence of the Silane Modifiers on the Surface Thermodynamic Characteristics and Dispersion of the Silica into Elastomer Compounds. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4495-4502.	1.2	77
133	Phosphoric acid on oxide carriers. 1. Characterization of silica, alumina, and titania impregnated by phosphoric acid. <i>Langmuir</i> , 1989, 5, 911-916.	1.6	76
134	Surface acidity modifications induced by thermal treatments and acid leaching on microcrystalline H-BEA zeolite. A FTIR, XRD and MAS-NMR study. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3529-3537.	1.3	76
135	Surface characterization of a grafted vanadium-titanium dioxide catalyst. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1985, 81, 1003.	1.0	75
136	Characterization of alumina-titania mixed oxide supports. <i>Microporous and Mesoporous Materials</i> , 1998, 23, 265-275.	2.2	75
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