Guido Busca

List of Publications by Year
in descending order

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513 papers	35,932 citations	3449 93 h-index	6686 161 g-index
554 all docs	554 docs citations	554 times ranked	23505 citing authors

#	Article	IF	Citations
1	A Study of the Pyrolysis Products of Kraft Lignin. Energies, 2022, 15, 991.	1.6	3
2	Kaolinite-based zeolites synthesis and their application in CO2 capture processes. Fuel, 2022, 320, 123953.	3.4	15
3	CO2 hydrogenation and ethanol steam reforming over Co/SiO2 catalysts: Deactivation and selectivity switches. Catalysis Today, 2021, 365, 122-131.	2.2	9
4	Ni/SiO2-Al2O3 catalysts for CO2 methanation: Effect of La2O3 addition. Applied Catalysis B: Environmental, 2021, 284, 119697.	10.8	59
5	Improvement of Ni/Al₂O₃ Catalysts for Low-Temperature CO₂ Methanation by Vanadium and Calcium Oxide Addition. Industrial & Engineering Chemistry Research, 2021, 60, 6554-6564.	1.8	20
6	Production of Gasolines and Monocyclic Aromatic Hydrocarbons: From Fossil Raw Materials to Green Processes. Energies, 2021, 14, 4061.	1.6	26
7	(Bio)Propylene production processes: A critical review. Journal of Environmental Chemical Engineering, 2021, 9, 105673.	3.3	44
8	A study of molybdena catalysts in ethanol oxidation. Part <scp>2</scp>. Aluminaâ€supported and silicaâ€doped aluminaâ€supported <scp>MoO₃</scp>. Journal of Chemical Technology and Biotechnology, 2021, 96, 3304-3315.	1.6	2
9	Modification of the properties of Î³-alumina as a support for nickel and molybdate catalysts by addition of silica. Catalysis Today, 2021, 378, 57-64.	2.2	11
10	A study of ethanol dehydrogenation to acetaldehyde over copper/zinc aluminate catalysts. Catalysis Today, 2020, 354, 167-175.	2.2	42
11	Silica-alumina catalytic materials: A critical review. Catalysis Today, 2020, 357, 621-629.	2.2	52
12	Support effects in metal catalysis: a study of the behavior of unsupported and silica-supported cobalt catalysts in the hydrogenation of CO2 at atmospheric pressure. Catalysis Today, 2020, 345, 213-219.	2.2	27
13	Reutilization of silicon- and aluminum- containing wastes in the perspective of the preparation of SiO2-Al2O3 based porous materials for adsorbents and catalysts. Waste Management, 2020, 103, 146-158.	3.7	39
14	Solid acids, surface acidity and heterogeneous acid catalysis. Advances in Catalysis, 2020, 67, 1-90.	0.1	13
15	Heterogeneous Catalysis in (Bio)Ethanol Conversion to Chemicals and Fuels: Thermodynamics, Catalysis, Reaction Paths, Mechanisms and Product Selectivities. Energies, 2020, 13, 3587.	1.6	20
16	Thermocatalytic Pyrolysis of Exhausted Arthrospira platensis Biomass after Protein or Lipid Recovery. Energies, 2020, 13, 5246.	1.6	6
17	A Study on CO2 Methanation and Steam Methane Reforming over Commercial Ni/Calcium Aluminate Catalysts. Energies, 2020, 13, 2792.	1.6	24
18	Modeling of Laboratory Steam Methane Reforming and CO2 Methanation Reactors. Energies, 2020, 13, 2624.	1.6	14

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19	Synthesis of high value-added Naâ€“P1 and Na-FAU zeolites using waste glass from fluorescent tubes and aluminum scraps. Materials Chemistry and Physics, 2020, 248, 122903.	2.0	25
20	A study of ethanol dehydrogenation to acetaldehyde over supported copper catalysts: Catalytic activity, deactivation and regeneration. Applied Catalysis A: General, 2020, 602, 117710.	2.2	28
21	System for ammonia removal from anaerobic digestion and associated ammonium sulfate production: Simulation and design considerations. Chemical Engineering Research and Design, 2020, 144, 133-142.	2.7	10
22	Process of ammonia removal from anaerobic digestion and associated ammonium sulphate production: Pilot plant demonstration. Journal of Environmental Management, 2020, 259, 109841.	3.8	26
23	Production of carbon-based biofuels by pyrolysis of exhausted Arthrospira platensis biomass after protein or lipid recovery. Fuel Processing Technology, 2020, 201, 106336.	3.7	25
24	Graphitic Carbon Nitrideâ€“Nickel Catalyst: From Material Characterization to Efficient Ethanol Electrooxidation. ACS Sustainable Chemistry and Engineering, 2020, 8, 7244-7255.	3.2	38
25	Selective Bioethanol Conversion to Chemicals and Fuels via Advanced Catalytic Approaches. , 2020, , 75-103.		5
26	From Surface Science to Industrial Heterogeneous Catalysis. Springer Handbooks, 2020, , 1087-1115.	0.3	0
27	Chloride-free hydrolytic solâ€“gel synthesis of Nbâ€“Pâ€“Si oxides: an approach to solid acid materials. Green Chemistry, 2020, 22, 7140-7151.	4.6	7
28	Unsupported cobalt nanoparticles as catalysts: Effect of preparation method on catalytic activity in CO2 methanation and ethanol steam reforming. International Journal of Hydrogen Energy, 2019, 44, 27319-27328.	3.8	25
29	Assessment through FT-IR of surface acidity and basicity of hydrocalumites by nitrile adsorption. Applied Clay Science, 2019, 180, 105180.	2.6	10
30	Catalytic materials based on silica and alumina: Structural features and generation of surface acidity. Progress in Materials Science, 2019, 104, 215-249.	16.0	68
31	On the Role of Support in Metallic Heterogeneous Catalysis: A Study of Unsupported Nickelâ€“Cobalt Alloy Nanoparticles in Ethanol Steam Reforming. Catalysis Letters, 2019, 149, 929-941.	1.4	17
32	A study of Ni/La-Al2O3 catalysts: A competitive system for CO2 methanation. Applied Catalysis B: Environmental, 2019, 248, 286-297.	10.8	142
33	Cobalt nanoparticles mechanically deposited on Î±â€Al₂O₃: a competitive catalyst for the production of hydrogen through ethanol steam reforming. Journal of Chemical Technology and Biotechnology, 2019, 94, 538-546.	1.6	20
34	A study of ethanol conversion over zinc aluminate catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2018, 124, 503-522.	0.8	12
35	Characterization of a mesoporous Î³-Al2O3 catalyst: Influence of their properties on ethanol conversion. Materials Today: Proceedings, 2018, 5, 17515-17524.	0.9	4
36	Ethanol and diethyl ether catalytic conversion over commercial alumina and lanthanum-doped alumina: Reaction paths, catalyst structure and coking. Applied Catalysis B: Environmental, 2018, 236, 490-500.	10.8	42

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37	Surface Characterization of Mesoporous CoOx/SBA-15 Catalyst upon 1,2-Dichloropropane Oxidation. Materials, 2018, 11, 912.	1.3	8
38	Innovative Mesoporous Nanosilicas: SBR Nanocomposite for Low Environmental Impact Tread Tyre. Journal of Nanoscience and Nanotechnology, 2018, 18, 1503-1515.	0.9	2
39	Acidity and basicity of zeolites: A fundamental approach. Microporous and Mesoporous Materials, 2017, 254, 3-16.	2.2	200
40	Adsorption and separation of CO 2 from N 2 -rich gas on zeolites: Na-X faujasite vs Na-mordenite. Journal of CO2 Utilization, 2017, 19, 266-275.	3.3	28
41	A study of Cu-SAPO-34 catalysts for SCR of NOx by ammonia. Microporous and Mesoporous Materials, 2017, 241, 258-265.	2.2	23
42	Î³-Alumina and Amorphous Silicaâ€“Alumina: Structural Features, Acid Sites and the Role of Adsorbed Water. Topics in Catalysis, 2017, 60, 1554-1564.	1.3	35
43	Removal of VOCs by catalytic process. A study of MnZnO composites synthesized from waste alkaline and Zn/C batteries. Chemical Engineering Journal, 2017, 313, 1099-1111.	6.6	46
44	Acido-basicity of lanthana/alumina catalysts and their activity in ethanol conversion. Applied Catalysis B: Environmental, 2017, 200, 458-468.	10.8	45
45	Oxidation of chlorinated alkanes over Co₃O₄/SBA-15 catalysts. Structural characterization and reaction mechanism. Catalysis Science and Technology, 2016, 6, 5618-5630.	2.1	35
46	Preparation and characterization of mesoporous nanocrystalline La-, Ce-, Zr-, Sr-containing Ni Al2O3 methane autothermal reforming catalysts. International Journal of Hydrogen Energy, 2016, 41, 8855-8862.	3.8	52
47	Steam reforming of biomass-derived organics: Interactions of different mixture components on Ni/Al 2 O 3 based catalysts. Applied Catalysis B: Environmental, 2016, 187, 386-398.	10.8	47
48	Pyrolysis of grape marc before and after the recovery of polyphenol fraction. Fuel Processing Technology, 2016, 153, 121-128.	3.7	24
49	On the detectability limits of nickel species on NiO/Î³-Al 2 O 3 catalytic materials. Applied Catalysis A: General, 2016, 525, 180-189.	2.2	35
50	Methanation of carbon dioxide on Ru/Al2O3: Catalytic activity and infrared study. Catalysis Today, 2016, 277, 21-28.	2.2	94
51	Facile synthesis of a mesoporous alumina and its application as a support of Ni-based autothermal reforming catalysts. International Journal of Hydrogen Energy, 2016, 41, 3456-3464.	3.8	68
52	CO 2 capture by functionalized alumina sorbents: DiEthanolAmine on Î³-alumina. Microporous and Mesoporous Materials, 2016, 226, 444-453.	2.2	21
53	Low-Temperature Dehydrogenation of Ethanol on Atomically Dispersed Gold Supported on ZnZrO_x. ACS Catalysis, 2016, 6, 210-218.	5.5	89
54	Hydrogen from steam reforming of ethanol over cobalt nanoparticles: Effect of boron impurities. Applied Catalysis A: General, 2016, 518, 67-77.	2.2	21

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55	Deoxygenation of waste cooking oil and non-edible oil for the production of liquid hydrocarbon biofuels. Waste Management, 2016, 47, 62-68.	3.7	73
56	Dehydration of ethanol over zeolites, silica alumina and alumina: Lewis acidity, BrÃ¸nsted acidity and confinement effects. Applied Catalysis A: General, 2015, 493, 77-89.	2.2	175
57	A study of Ni/Al2O3 and Niâ€“La/Al2O3 catalysts for the steam reforming of ethanol and phenol. Applied Catalysis B: Environmental, 2015, 174-175, 21-34.	10.8	104
58	Preparation of supported catalysts: A study of the effect of small amounts of silica on Ni/Al2O3 catalysts. Applied Catalysis A: General, 2015, 505, 86-97.	2.2	34
59	NbP catalyst for furfural production: FT IR studies of surface properties. Applied Catalysis A: General, 2015, 502, 388-398.	2.2	32
60	Pure vs ultra-pure Î³-alumina: A spectroscopic study and catalysis of ethanol conversion. Catalysis Communications, 2015, 70, 77-81.	1.6	22
61	Methanation of carbon dioxide on Ru/Al 2 O 3 andÂNi/Al 2 O 3 catalysts at atmospheric pressure: Catalysts activation, behaviour and stability. International Journal of Hydrogen Energy, 2015, 40, 9171-9182.	3.8	179
62	Ceriaâ€“zirconia based catalysts for ethanol steam reforming. Fuel, 2015, 153, 166-175.	3.4	66
63	Preliminary experimental study on biofuel production by deoxygenation of Jatropha oil. Fuel Processing Technology, 2015, 137, 31-37.	3.7	32
64	Ethanol dehydration on silica-aluminas: Active sites and ethylene/diethyl ether selectivities. Catalysis Communications, 2015, 68, 110-115.	1.6	82
65	Diethyl ether cracking and ethanol dehydration: Acid catalysis and reaction paths. Chemical Engineering Journal, 2015, 272, 92-101.	6.6	129
66	Tuning of product selectivity in the conversion of ethanol to hydrocarbons over H-ZSM-5 based zeolite catalysts. Fuel Processing Technology, 2015, 137, 290-297.	3.7	47
67	Catalytic pyrolysis of vegetable oils to biofuels: Catalyst functionalities and the role of ketonization on the oxygenate paths. Fuel Processing Technology, 2015, 140, 119-124.	3.7	46
68	On the role of triethylene glycol in the preparation of highly active Ni-Mo/Al2O3 hydrodesulfurization catalysts: A spectroscopic study. Applied Catalysis B: Environmental, 2015, 166-167, 560-567.	10.8	12
69	Conversion of ethanol over transition metal oxide catalysts: Effect of tungsta addition on catalytic behaviour of titania and zirconia. Applied Catalysis A: General, 2015, 489, 180-187.	2.2	66
70	On the Lewis acidity of protonic zeolites. Applied Catalysis A: General, 2015, 504, 151-157.	2.2	50
71	Infrared Spectroscopy in Oxidation Catalysis. , 2014, , 447-495.		1
72	Heterogeneous Catalysts and Biomass Conversion. , 2014, , 429-446.		4

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73	Catalysts for Hydrogenations, Dehydrogenations and Metathesis. , 2014, , 345-374.		6
74	Zeolites and Other Structurally Microporous Solids as Acidâ€“Base Materials. , 2014, , 197-249.		8
75	Metal Catalysts for Hydrogenations and Dehydrogenations. , 2014, , 297-343.		11
76	Other Solid Acid and Basic Catalytic Materials. , 2014, , 251-296.		1
77	Structural, Surface, and Catalytic Properties of Aluminas. Advances in Catalysis, 2014, 57, 319-404.	0.1	69
78	Acid and Basic Catalysts: Fundamentals. , 2014, , 57-101.		3
79	A study of commercial transition aluminas and of their catalytic activity in the dehydration of ethanol. Journal of Catalysis, 2014, 311, 102-113.	3.1	171
80	Steam reforming of ethanolâ€“phenol mixture on Ni/Al2O3: Effect of magnesium and boron on catalytic activity in the presence and absence of sulphur. Applied Catalysis B: Environmental, 2014, 147, 813-826.	10.8	46
81	The surface of transitional aluminas: A critical review. Catalysis Today, 2014, 226, 2-13.	2.2	286
82	Unsupported versus alumina-supported Ni nanoparticles as catalysts for steam/ethanol conversion and CO2 methanation. Journal of Molecular Catalysis A, 2014, 383-384, 10-16.	4.8	52
83	Catalytic conversion of ethyl acetate over faujasite zeolites. Applied Catalysis A: General, 2014, 470, 72-80.	2.2	46
84	Oxidation Catalysts. , 2014, , 375-419.		1
85	Surface and catalytic properties of some Î³-Al2O3 powders. Applied Catalysis A: General, 2014, 483, 41-51.	2.2	67
86	The state of nickel in spent Fluid Catalytic Cracking catalysts. Applied Catalysis A: General, 2014, 486, 176-186.	2.2	53
87	A study of the methanation of carbon dioxide on Ni/Al2O3 catalysts at atmospheric pressure. International Journal of Hydrogen Energy, 2014, 39, 11557-11565.	3.8	225
88	Metal Oxides as Acid-Base Catalytic Materials. , 2014, , 103-195.		7
89	On the consistency of results arising from different techniques concerning the nature of supported metal oxide (nano)particles. The case of NiO/Al2O3. Catalysis Communications, 2014, 51, 37-41.	1.6	28
90	On the activity and stability of Pt-K/Al2O3 LNT catalysts for diesel soot and NOx abatement. Applied Catalysis B: Environmental, 2014, 144, 783-791.	10.8	32

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91	Gas-phase dehydration of glycerol to acrolein over Al2O3-, SiO2-, and TiO2-supported Nb- and W-oxide catalysts. Journal of Catalysis, 2013, 307, 170-184.	3.1	94
92	Effect of Soot During Operation of a Ptâ€"K/Al2O3 LNT Catalyst. Topics in Catalysis, 2013, 56, 477-482.	1.3	8
93	Catalytic conversion of ethyl acetate and acetic acid on alumina as models of vegetable oils conversion to biofuels. Chemical Engineering Journal, 2013, 215-216, 838-848.	6.6	38
94	Performance of ZrO 2 -supported Nb- and W-oxide in the gas-phase dehydration of glycerol to acrolein. Journal of Catalysis, 2013, 297, 93-109.	3.1	99
95	Insights into the deactivation and reactivation of Ru/TiO2 during Fischerâ€"Tropsch synthesis. Catalysis Today, 2013, 214, 2-11.	2.2	33
96	Spectroscopic characterization of Ni/Al2O3 catalytic materials for the steam reforming of renewables. Applied Catalysis A: General, 2013, 452, 163-173.	2.2	57
97	Steam reforming of ethanolâ€"phenol mixture on Ni/Al2O3: Effect of Ni loading and sulphur deactivation. Applied Catalysis B: Environmental, 2013, 129, 460-472.	10.8	52
98	A study of the deactivation of low loading Ni/Al2O3 steam reforming catalyst by tetrahydrothiophene. Catalysis Communications, 2013, 38, 67-73.	1.6	14
99	Supported WOx-based catalysts for methanol dehydration to dimethyl ether. Fuel, 2013, 113, 1-9.	3.4	41
100	HDS and HDN on SBA-supported RuS2 catalysts promoted by Pt and Ir. Journal of Catalysis, 2013, 305, 101-117.	3.1	47
101	Cobalt-based nanoparticles as catalysts for low temperature hydrogen production by ethanol steam reforming. International Journal of Hydrogen Energy, 2013, 38, 82-91.	3.8	64
102	In Situ DRIFTS-MS Study of the Anaerobic Oxidation of Ethanol over Spinel Mixed Oxides. Journal of Physical Chemistry C, 2013, 117, 23908-23918.	1.5	74
103	K-doping of Co/Al2O3 low temperature Fischerâ€"Tropsch catalysts. Catalysis Today, 2012, 197, 101-108.	2.2	23
104	Dependence of surface properties of silylated silica on the length of silane arms. Adsorption, 2012, 18, 307-320.	1.4	16
105	Medium-temperature conversion of biomass and wastes into liquid products, a review. Renewable and Sustainable Energy Reviews, 2012, 16, 6455-6475.	8.2	54
106	Infrared studies of CO oxidation by oxygen and by water over Pt/Al2O3 and Pd/Al2O3 catalysts. Applied Catalysis B: Environmental, 2012, 113-114, 172-179.	10.8	48
107	Steam reforming of phenolâ€"ethanol mixture over 5% Ni/Al2O3. Applied Catalysis B: Environmental, 2012, 113-114, 281-289.	10.8	32
108	Location and Accessibility of Hydroxy Groups in Silico-aluminate Porous Materials as Studied by IR Spectroscopy. Current Physical Chemistry, 2012, 2, 136-150.	0.1	11

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109	Infrared Spectroscopy of Heterogeneous Catalysts: Acidity and Accessibility of Acid Sites of Faujasite-Type Solid Acids. Journal of Physical Chemistry C, 2011, 115, 937-943.	1.5	46
110	Solid-State NMR Characterization of the Insertion of Cobalt into Aluminosilicate Materials. Journal of Physical Chemistry C, 2011, 115, 10569-10575.	1.5	6
111	Support effects on the structure and performance of ruthenium catalysts for the Fischerâ€“Tropsch synthesis. Catalysis Science and Technology, 2011, 1, 1013.	2.1	46
112	A study on catalytic combustion of chlorobenzenes. Catalysis Today, 2011, 169, 3-9.	2.2	48
113	FT-IR study of the surface redox states on platinum-potassium-alumina catalysts. Applied Catalysis B: Environmental, 2011, 105, 15-23.	10.8	30
114	CO2 separation and landfill biogas upgrading: A comparison of 4A and 13X zeolite adsorbents. Energy, 2011, 36, 314-319.	4.5	114
115	Basic catalysis and catalysis assisted by basicity: FT-IR and TPD characterization of potassium-doped alumina. Applied Catalysis A: General, 2011, 400, 61-69.	2.2	99
116	Zincâ€“aluminum hydrotalcites as precursors of basic catalysts: Preparation, characterization and study of the activation of methanol. Catalysis Today, 2010, 152, 104-109.	2.2	66
117	Purification of landfill biogases from siloxanes by adsorption: A study of silica and 13X zeolite adsorbents on hexamethylcyclotrisiloxane separation. Chemical Engineering Journal, 2010, 165, 859-863.	6.6	49
118	Characterization of alumina-supported Pt, Ni and PtNi alloy catalysts for the dry reforming of methane. Journal of Catalysis, 2010, 274, 11-20.	3.1	199
119	Activation process of Pd/Al2O3 catalysts for CH4 combustion by reduction/oxidation cycles in CH4-containing atmosphere. Journal of Catalysis, 2010, 275, 218-227.	3.1	43
120	Characterization of alumina- and niobia-supported gold catalysts used for oxidation of glycerol. Applied Catalysis A: General, 2010, 384, 70-77.	2.2	42
121	Nickel versus cobalt catalysts for hydrogen production by ethanol steam reforming: Niâ€“Coâ€“Znâ€“Al catalysts from hydrotalcite-like precursors. International Journal of Hydrogen Energy, 2010, 35, 5356-5366.	3.8	125
122	Study of sulfur poisoning on Pd/Al2O3 and Pd/CeO2/Al2O3 methane combustion catalysts. Catalysis Today, 2010, 155, 59-65.	2.2	45
123	Ageing mechanisms on PdOx-based catalysts for natural gas combustion in premixed burners. Chemical Engineering Science, 2010, 65, 186-192.	1.9	10
124	Catalysis by acids and bases: New materials and surface studies. Catalysis Today, 2010, 152, 1.	2.2	3
125	Ni-Co-Zn-Al Catalysts From Hydrotalcite-Like Precursors for Hydrogen Production by Ethanol Steam Reforming. , 2010, , .		1
126	Bulk and surface properties of commercial kaolins. Applied Clay Science, 2010, 48, 446-454.	2.6	92

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127	Bases and Basic Materials in Chemical and Environmental Processes. Liquid versus Solid Basicity. Chemical Reviews, 2010, 110, 2217-2249.	23.0	182
128	Surface and structural characterization of ZrO2â€“CeO2-supported molybdenum oxide catalysts. Materials Chemistry and Physics, 2009, 114, 848-853.	2.0	5
129	Surface chemistry and reactivity of ceriaâ€“zirconia-supported palladium oxide catalysts for natural gas combustion. Journal of Catalysis, 2009, 263, 134-145.	3.1	86
130	Exploring, Tuning, and Exploiting the Basicity of Hydrotalcites for Applications in Heterogeneous Catalysis. Chemistry - A European Journal, 2009, 15, 3920-3935.	1.7	450
131	Hydrogen from alcohols: IR and flow reactor studies. Catalysis Today, 2009, 143, 2-8.	2.2	41
132	Effect of S-compounds on Pd over LaMnO3Â·2ZrO2 and CeO2Â·2ZrO2 catalysts for CH4 combustion. Catalysis Today, 2009, 143, 86-93.	2.2	29
133	Reaction path of ethanol and acetic acid steam reforming over Niâ€“Znâ€“Al catalysts. Flow reactor studies. Chemical Engineering Journal, 2009, 153, 43-49.	6.6	47
134	An FT-IR study of the adsorption and reactivity of tert-butyl hydroperoxide over oxide catalysts. Applied Catalysis A: General, 2009, 369, 27-35.	2.2	27
135	An FTIR study of the dispersed Ni species on Ni-YSZ catalysts. Applied Catalysis A: General, 2009, 353, 137-143.	2.2	32
136	Hydrogen production by ethanol steam reforming over Ni catalysts derived from hydrotalcite-like precursors: Catalyst characterization, catalytic activity and reaction path. Applied Catalysis A: General, 2009, 355, 83-93.	2.2	127
137	Catalytic activity and long-term stability of palladium oxide catalysts for natural gas combustion: Pd supported on LaMnO3-ZrO2. Applied Catalysis B: Environmental, 2009, 92, 285-293.	10.8	21
138	Purification of Biogases from Siloxanes by Adsorption: On the Regenerability of Activated Carbon Sorbents. Energy & Fuels, 2009, 23, 4156-4159.	2.5	74
139	Bases and Basic Materials in Industrial and Environmental Chemistry: A Review of Commercial Processes. Industrial & Engineering Chemistry Research, 2009, 48, 6486-6511.	1.8	59
140	Characterization of a ceria-zirconia-supported Cu oxides catalyst: An FT-IR study on the catalytic oxidation of propylene. Catalysis Communications, 2009, 10, 861-864.	1.6	19
141	Oxidation of benzothiophene by tert-butyl hydroperoxide over vanadiaâ€“alumina catalyst: An FT-IR study at the vapourâ€“solid interface. Catalysis Communications, 2009, 10, 1629-1632.	1.6	9
142	A study of a ceriaâ€“zirconia-supported manganese oxide catalyst for combustion of Diesel soot particles. Combustion and Flame, 2008, 153, 97-104.	2.8	60
143	Technologies for the removal of phenol from fluid streams: A short review of recent developments. Journal of Hazardous Materials, 2008, 160, 265-288.	6.5	1,057
144	One-step synthesis of a structurally organized mesoporous CuO-CeO2-Al2O3 system for the preferential CO oxidation. Applied Catalysis A: General, 2008, 335, 46-55.	2.2	88

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145	Ptâ€“Baâ€“Al2O3 for NOx storage and reduction: Characterization of the dispersed species. Applied Catalysis B: Environmental, 2008, 80, 214-225.	10.8	39
146	Catalytic wet oxidation of phenol over lanthanum strontium manganite. Applied Catalysis B: Environmental, 2008, 84, 678-683.	10.8	23
147	Removal and recovery of nitriles from gaseous streams: An IR study of acetonitrile adsorption on and desorption from inorganic solids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 320, 205-212.	2.3	24
148	On the mechanism of adsorption and separation of CO2 on LTA zeolites: An IR investigation. Vibrational Spectroscopy, 2008, 46, 45-51.	1.2	145
149	Catalytic combustion of ethanol on pure and alumina supported K-Mn oxides: An IR and flow reactor study. Applied Catalysis B: Environmental, 2008, 78, 73-79.	10.8	51
150	Yttria-stabilized zirconia (YSZ) supported Niâ€“Co alloys (precursor of SOFC anodes) as catalysts for the steam reforming of ethanol. International Journal of Hydrogen Energy, 2008, 33, 3728-3735.	3.8	98
151	Adsorption of CO on LTA zeolite adsorbents: An IR investigation. Microporous and Mesoporous Materials, 2008, 109, 216-222.	2.2	40
152	Decomposition of hexamethylcyclotrisiloxane over solid oxides. Chemosphere, 2008, 72, 1659-1663.	4.2	54
153	A Study of the Nature, Strength, and Accessibility of Acid Sites of H-MCM-22 Zeolite. Journal of Physical Chemistry C, 2008, 112, 9023-9033.	1.5	30
154	Acid Catalysts in Industrial Hydrocarbon Chemistry. Chemical Reviews, 2007, 107, 5366-5410.	23.0	581
155	Influence of the Silane Modifiers on the Surface Thermodynamic Characteristics and Dispersion of the Silica into Elastomer Compounds. Journal of Physical Chemistry B, 2007, 111, 4495-4502.	1.2	77
156	State of Supported Rhodium Nanoparticles for Methane Catalytic Partial Oxidation (CPO):â€‰ FT-IR Studies. Langmuir, 2007, 23, 10419-10428.	1.6	38
157	Adsorption of Trimethoxysilane and of 3-Mercaptopropyltrimethoxysilane on Silica and on Silicon Wafers from Vapor Phase:Â An IR Study. Langmuir, 2007, 23, 2505-2509.	1.6	53
158	An IR study of the chemistry of triethoxysilane at the surface of metal oxides. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 294, 181-190.	2.3	10
159	On the mechanisms and the selectivity determining steps in syngas conversion over supported metal catalysts: An IR study. Applied Catalysis A: General, 2007, 316, 68-74.	2.2	82
160	Searching for the active sites of Co-H-MFI catalyst for the selective catalytic reduction of NO by methane: A FT-IR in situ and operando study. Applied Catalysis B: Environmental, 2007, 71, 216-222.	10.8	58
161	An IR study of thermally stable V2O5-WO3 -TiO2 SCR catalysts modified with silica and rare-earths (Ce,) Tj ETQq1 1 0.784314 rgBT /Ov	10.8	93
162	Initial steps in the production of H2 from ethanol: A FT-IR study of adsorbed species on Ni/MgO catalyst surface. Reaction Kinetics and Catalysis Letters, 2007, 90, 117-126.	0.6	26

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163	A spectroscopic study of the nature and accessibility of protonic and cationic sites in H- and partially exchanged Cu- and Co-MFI zeolites. Journal of Porous Materials, 2007, 14, 291-297.	1.3	7
164	An IR study of methanol steam reforming over ex-hydrotalcite Cuâ€“Znâ€“Al catalysts. Journal of Molecular Catalysis A, 2007, 266, 188-197.	4.8	79
165	Properties of sodium ions in zeolite materials: FT-IR study of the low temperature adsorption of carbon monoxide. Journal of Materials Chemistry, 2006, 16, 995.	6.7	18
166	Characterization of Pdâ^'Cu Alloy Nanoparticles on Î³-Al2O3-Supported Catalysts. Langmuir, 2006, 22, 9214-9219.	1.6	36
167	Are the active sites of protonic zeolites generated by the cavities?. Catalysis Today, 2006, 116, 132-142.	2.2	84
168	Which sites are the active sites in TiO2â€“SiO2 mixed oxides?. Catalysis Today, 2006, 116, 99-110.	2.2	36
169	Production of hydrogen by steam reforming of C3 organics over Pdâ€“Cu/Î³Î³-Al2O3 catalyst. International Journal of Hydrogen Energy, 2006, 31, 13-19.	3.8	41
170	Use of nitriles as probe molecules for the accessibility of the active sites and the detection of complex interactions in zeolites through IR spectroscopy. Applied Catalysis A: General, 2006, 307, 21-29.	2.2	47
171	Methanol steam reforming over ex-hydrotalcite Cuâ€“Znâ€“Al catalysts. Applied Catalysis A: General, 2006, 310, 70-78.	2.2	77
172	Finely dispersed Pd-Zn catalyst supported on an organized mesoporous alumina for hydrogen production by methanol steam reforming. Applied Catalysis A: General, 2006, 312, 220-228.	2.2	47
173	FT-IR evidence of the interaction of benzothiophene with the hydroxyl groups of H-MFI and H-MOR zeolites. Vibrational Spectroscopy, 2006, 41, 42-47.	1.2	23
174	Effects of crystal size and Si/Al ratio on the surface properties of H-ZSM-5 zeolites. Applied Catalysis A: General, 2006, 306, 78-84.	2.2	163
175	FT-IR study of the adsorption of carbon monoxide and of some nitriles on Na-faujasites: Additional insight on the formation of complex interactions. Catalysis Today, 2006, 114, 188-196.	2.2	19
176	A review of catalytic processes for the destruction of PCDD and PCDF from waste gases. Applied Catalysis B: Environmental, 2006, 62, 12-20.	10.8	132
177	The Surface Acidity and Basicity of Solid Oxides and Zeolites. Chemical Industries, 2005, , 247-318.	0.1	9
178	Comparison of alcohol and alkane oxidative dehydrogenation reactions over supported vanadium oxide catalysts: in situ infrared, Raman and UVâ€“vis spectroscopic studies of surface alkoxide intermediates and of their surface chemistry. Catalysis Today, 2005, 99, 105-114.	2.2	55
179	Catalytic abatement of NOx: Chemical and mechanistic aspects. Catalysis Today, 2005, 107-108, 139-148.	2.2	150
180	Fourier Transform Infrared Spectroscopic Study of the Adsorption of CO and Nitriles on Naâ^'Mordenite:Â Evidence of a New Interaction. Journal of Physical Chemistry B, 2005, 109, 915-922.	1.2	36

#	Article	IF	Citations
181	A reexamination of the adsorption of CO and nitriles on alkali-metal mordenites: characterization of multiple interactions. Physical Chemistry Chemical Physics, 2005, 7, 2526.	1.3	43
182	Low temperature selective catalytic reduction of NOx by ammonia over H-ZSM-5: an IR study. Applied Catalysis B: Environmental, 2005, 58, 19-23.	10.8	55
183	Cobalt on and in zeolites and silicaâ€“alumina: Spectroscopic characterization and reactivity. Catalysis Today, 2005, 110, 339-344.	2.2	48
184	Cuâ€“Znâ€“Al hydrotalcites as precursors of catalysts for the production of hydrogen from methanol. Solid State Ionics, 2005, 176, 2917-2922.	1.3	53
185	Solid state characterization of coprecipitated alumina-gallia mixed oxide powders. Journal of Materials Science, 2005, 40, 2013-2021.	1.7	12
186	Preparation and characterization of silicon hydride oxide: a fully hydrophobic solid. Journal of Materials Chemistry, 2005, 15, 910.	6.7	15
187	Surface Modification of H-Ferrierite by Reaction with Triethoxysilane. Journal of Physical Chemistry B, 2005, 109, 879-883.	1.2	13
188	Noble metal containing Al/Ce/Mg pillared montmorillonite clay as catalysts in the hydrotreating of LCO fractions. Applied Clay Science, 2005, 29, 224-234.	2.6	24
189	Propene versus propane steam reforming for hydrogen production over Pd-based and Ni-based catalysts. Catalysis Communications, 2005, 6, 441-445.	1.6	23
190	As to the reasons of the high activity of a commercial pentasil-type zeolite in the vapor-phase Fries rearrangement. Applied Catalysis A: General, 2004, 257, 85-95.	2.2	22
191	Title is missing!. Journal of Catalysis, 2004, 228, 43-55.	3.1	10
192	Title is missing!. Journal of Catalysis, 2004, 228, 56-65.	3.1	3
193	Trichloroethylene catalytic conversion over acidic solid catalysts. Applied Catalysis B: Environmental, 2004, 51, 143-148.	10.8	34
194	Characterization of Cubic Ceriaâ€”Zirconia Powders by X-Ray Diffraction and Vibrational and Electronic Spectroscopy.. ChemInform, 2004, 35, no.	0.1	0
195	A new low-cost synthetic route to obtain zirconium containing mesoporous silica. Microporous and Mesoporous Materials, 2004, 75, 23-32.	2.2	53
196	New Pd/Pt on Mg/Al basic mixed oxides for the hydrogenation and hydrogenolysis of naphthalene. Journal of Catalysis, 2004, 223, 372-381.	3.1	71
197	On the role of external Co sites in NO oxidation and reduction by methane over Co?H-MFI catalysts. Journal of Catalysis, 2004, 225, 536-540.	3.1	38
198	Nickel supported on porous silica as catalysts for the gas-phase hydrogenation of acetonitrile. Journal of Catalysis, 2004, 225, 479-488.	3.1	49

#	Article	IF	Citations
199	UVâ^'Vis and FT-IR Study of the Nature and Location of the Active Sites of Partially Exchanged Coâ^'H Zeolites. Journal of Physical Chemistry B, 2004, 108, 2120-2127.	1.2	50
200	A Fourier Transform Infrared (FTIR) Study of the Reaction of Triethoxysilane (TES) and Bis[3-triethoxysilylpropyl]tetrasulfane (TESPT) with the Surface of Amorphous Silica. Journal of Physical Chemistry B, 2004, 108, 3563-3572.	1.2	90
201	Production of hydrogen from oxidative steam reforming of methanolII. Catalytic activity and reaction mechanism on Cu/ZnO/Al2O3 hydrotalcite-derived catalysts. Journal of Catalysis, 2004, 228, 56-65.	3.1	135
202	Production of hydrogen from oxidative steam reforming of methanolI. Preparation and characterization of Cu/ZnO/Al2O3 catalysts from a hydrotalcite-like LDH precursor. Journal of Catalysis, 2004, 228, 43-55.	3.1	239
203	Influencia de la adiciÃ³n de galio en las propiedades estructurales y texturales de Ã³xidos de Mn y Al. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 132-134.	0.9	3
204	A Study of the Oxidative Dehydrogenation of Cyclohexane Over Oxide Catalysts. Catalysis Letters, 2003, 89, 199-205.	1.4	21
205	Characterization of cubic ceriaâ€“zirconia powders by X-ray diffraction and vibrational and electronic spectroscopy. Solid State Sciences, 2003, 5, 1369-1376.	1.5	144
206	Characterization of manganeseâ€“gallium mixed oxide powders. Solid State Sciences, 2003, 5, 1481-1489.	1.5	10
207	Selective catalytic reduction of NOx by methane over Co-H-MFI and Co-H-FER zeolite catalysts: characterisation and catalytic activity. Journal of Catalysis, 2003, 214, 179-190.	3.1	129
208	Effects of preparation method and sulfur poisoning on the hydrogenation and ring opening of tetralin on NiW/zirconium-doped mesoporous silica catalysts. Journal of Catalysis, 2003, 220, 457-467.	3.1	28
209	Textural and structural properties and surface acidity characterization of mesoporous silica-zirconia molecular sieves. Journal of Solid State Chemistry, 2003, 175, 159-169.	1.4	138
210	Fluoride modification of Mo/Al2O3 catalysts. Journal of Fluorine Chemistry, 2003, 122, 151-158.	0.9	15
211	Oxidation of ethane over vanadia-alumina-based catalysts: co-feed and redox experiments. Chemical Engineering Journal, 2003, 93, 181-189.	6.6	18
212	Spectroscopic characterization of cobalt-containing solid catalysts. Journal of Molecular Catalysis A, 2003, 204-205, 535-544.	4.8	23
213	Oxidation of ethane and cyclohexane over vanadia-niobia-silica catalysts. Applied Catalysis A: General, 2003, 251, 29-38.	2.2	12
214	Abatement of ammonia and amines from waste gases: a summary. Journal of Loss Prevention in the Process Industries, 2003, 16, 157-163.	1.7	103
215	Technologies for the abatement of sulphide compounds from gaseous streams: a comparative overview. Journal of Loss Prevention in the Process Industries, 2003, 16, 363-371.	1.7	61
216	Characterization of the Structural and Gas Adsorption Properties of ETS-10 Molecular Sieve. Adsorption Science and Technology, 2003, 21, 683-696.	1.5	13

#	Article	IF	Citations
217	Catalytic conversion of trichloroethylene over HY-zeolite. Studies in Surface Science and Catalysis, 2002, 142, 967-974.	1.5	3
218	FT-IR studies of internal, external and extraframework sites of FER, MFI, BEA and MOR type protonic zeolite materials. Studies in Surface Science and Catalysis, 2002, , 975-982.	1.5	7
219	An FTIR study of the accessibility of the protonic sites of H-mordenites. Physical Chemistry Chemical Physics, 2002, 4, 4575-4583.	1.3	44
220	A study of the localization and accessibility of BrÃ¸nsted and Lewis acid sites of H-mordenite through the FT-IR spectroscopy of adsorbed branched nitriles. Catalysis Communications, 2002, 3, 497-502.	1.6	60
221	Structural and morphological characterization of Mnâ€“Zr mixed oxides prepared by a solâ€“gel method. Solid State Sciences, 2002, 4, 951-961.	1.5	19
222	An FT-IR study of the conversion of 2-chloropropane, o-dichlorobenzene and dibenzofuran on V2O5-MoO3-TiO2 SCR-DeNOx catalysts. Applied Catalysis B: Environmental, 2002, 39, 343-352.	10.8	95
223	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. Journal of Raman Spectroscopy, 2002, 33, 348-358.	1.2	157
224	Studies on the catalytic dechlorination and abatement of chlorided VOC: the cases of 2-chloropropane, 1,2-dichloropropane and trichloroethylene. Catalysis Today, 2002, 75, 263-267.	2.2	26
225	A FT-IR study of the adsorption of indole, carbazole, benzothiophene, dibenzothiophene and 4,6-dibenzothiophene over solid adsorbents and catalysts. Applied Catalysis A: General, 2002, 224, 167-178.	2.2	92
226	A study of the reaction pathway upon propane oxidation over Vâ€“K/Al2O3 catalysts. Chemical Engineering Journal, 2002, 89, 75-87.	6.6	26
227	Monitoring hydrogen absorption in Pd electrodes by means of electric and electrochemical signals. Journal of Applied Electrochemistry, 2002, 32, 661-670.	1.5	5
228	Vibrational and electronic spectroscopic properties of zirconia powders. Journal of Materials Chemistry, 2001, 11, 1891-1897.	6.7	271
229	Vibrational spectra study of Mo(V) phosphates as examples of different geometries of dimolybdenyl species. Journal of Materials Chemistry, 2001, 11, 1726-1731.	6.7	11
230	Solid state chemistry of Feâ€“Ga mixed oxides. Journal of Materials Chemistry, 2001, 11, 3234-3240.	6.7	17
231	Hydroconversion of Hydrocarbons over HZSM5 and Moâ^'HZSM5 Catalysts:Â A FTIR and Flow Reactor Study. Industrial & Engineering Chemistry Research, 2001, 40, 3484-3494.	1.8	2
232	A Study of the Dehydrochlorination of 1,2-Dichloropropane over Silicaâ^'Alumina Catalysts. Industrial & Engineering Chemistry Research, 2001, 40, 3262-3269.	1.8	26
233	A study of the surface acidity of acid-treated montmorillonite clay catalysts. Journal of Molecular Catalysis A, 2001, 168, 247-256.	4.8	106
234	Characterization and hydrocarbon oxidation activity of coprecipitated mixed oxides Mn3O4/Al2O3. Catalysis Today, 2001, 70, 213-225.	2.2	89

#	Article	IF	Citations
235	FTIR study of species arising after NO adsorption and NO+O2 co-adsorption on CoY: comparison with Co-ZSM-5. Microporous and Mesoporous Materials, 2001, 46, 299-309.	2.2	70
236	A study of the external and internal sites of MFI-type zeolitic materials through the FT-IR investigation of the adsorption of nitriles. Applied Catalysis A: General, 2001, 216, 59-71.	2.2	58
237	Redox and acid reactivity of wolframyl centers on oxide carriers: BrÃ¸nsted, Lewis and redox sites. Applied Catalysis A: General, 2001, 216, 181-194.	2.2	64
238	An FT-IR study of the adsorption of aromatic hydrocarbons and of 2,6-lutidine on H-FER and H-ZSM-5 zeolites. Applied Catalysis A: General, 2001, 220, 181-190.	2.2	40
239	A spectroscopic study of amorphous and crystalline Ti-containing silicas and their surface acidity. Topics in Catalysis, 2001, 15, 63-71.	1.3	82
240	Conversion and hydroconversion of hydrocarbons on zeolite-based catalysts: an FT-IR study. Catalysis Today, 2001, 65, 285-292.	2.2	21
241	An ultravioletâ€“visibleâ€“near infrared study of the electronic structure of oxide-supported vanadiaâ€“tungsta and vanadiaâ€“molybdena. Materials Chemistry and Physics, 2001, 72, 337-346.	2.0	61
242	A study of coprecipitated Mnâ€“Zr oxides and their behaviour as oxidation catalysts. Applied Catalysis B: Environmental, 2001, 29, 251-261.	10.8	48
243	An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe2O3-TiO2 SCR catalysts. Applied Catalysis B: Environmental, 2001, 30, 101-110.	10.8	147
244	Catalytic conversion of 2-chioropropane in oxidizing conditions: A FT-IR and flow reactor study. Studies in Surface Science and Catalysis, 2000, , 1613-1618.	1.5	3
245	A study of the abatement of VOC over V2O5â€“WO3â€“TiO2 and alternative SCR catalysts. Catalysis Today, 2000, 59, 261-268.	2.2	57
246	Characterisation by vibrational and electronic spectroscopies. Catalysis Today, 2000, 56, 361-370.	2.2	27
247	Acid sites characterization of niobium phosphate catalysts and their activity in fructose dehydration to 5-hydroxymethyl-2-furaldehyde. Journal of Molecular Catalysis A, 2000, 151, 233-243.	4.8	187
248	An FT-IR study of the internal and external surfaces of HZSM5 zeolite. Applied Catalysis A: General, 2000, 192, 125-136.	2.2	133
249	Solid acid catalysts from clays. Applied Catalysis A: General, 2000, 193, 55-69.	2.2	69
250	An FT-IR study of the reactivity of hydrocarbons on the acid sites of HZSM5 zeolite. Applied Catalysis A: General, 2000, 198, 81-93.	2.2	35
251	Propane oxydehydrogenation over alumina-supported vanadia doped with manganese and potassium. Applied Catalysis A: General, 2000, 198, 67-79.	2.2	36
252	Characterization and reactivity of MoO3/SiO2 catalysts in the selective catalytic oxidation of ammonia to N2. Catalysis Today, 2000, 61, 187-195.	2.2	77

#	Article	IF	Citations
253	An FT-IR study of the adsorption of urea and ammonia over V2O5â€“MoO3â€“TiO2 SCR catalysts. Applied Catalysis B: Environmental, 2000, 27, L145-L151.	10.8	222
254	Selective reduction of NO with NH3 on a new iron-vanadyl phosphate catalyst. Applied Catalysis B: Environmental, 2000, 28, 135-142.	10.8	18
255	Studies on Water and Ammonia Programmed Thermodesorption of Mixed M(III)-vanadyl Phosphates. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 61, 625-636.	1.4	11
256	An FT-IR and Reactor Study of the Dehydrochlorination Activity of CuCl2/Î³-Al2O3-Based Oxychlorination Catalysts. Journal of Catalysis, 2000, 191, 354-363.	3.1	52
257	An FT-IR and flow reactor study of the conversion of propane on Î³-Al2O3 in oxygen-containing atmosphere. Applied Catalysis A: General, 2000, 190, 157-167.	2.2	56
258	Title is missing!. Topics in Catalysis, 2000, 11/12, 161-166.	1.3	31
259	Surface acidity modifications induced by thermal treatments and acid leaching on microcrystalline H-BEA zeolite. A FTIR, XRD and MAS-NMR study. Physical Chemistry Chemical Physics, 2000, 2, 3529-3537.	1.3	76
260	FTIR study of the interaction of some branched aliphatic molecules with the external and internal sites of H-ZSM5 zeolite. Physical Chemistry Chemical Physics, 2000, 2, 3341-3348.	1.3	66
261	A study of the main path and of side-reactions upon ethylene oxychlorination over CuCl2-Al2O3 based catalysts. Studies in Surface Science and Catalysis, 2000, , 1823-1828.	1.5	3
262	A study of some bivalent metal divanadates and their catalytic activity in the oxidation of propane. Physical Chemistry Chemical Physics, 2000, 2, 2039-2045.	1.3	7
263	A study of ETS-4 molecular sieves and of their adsorption of water and ammonia. Journal of Materials Chemistry, 2000, 10, 1699-1705.	6.7	33
264	Spectroscopic characterisation of MoO3/TiO2 deNOx-SCR catalysts: Redox and coordination properties. Physical Chemistry Chemical Physics, 2000, 2, 4991-4998.	1.3	53
265	A Study of the Catalytic Dehydrochlorination of 2-Chloropropane in Oxidizing Conditions. Industrial & Engineering Chemistry Research, 2000, 39, 2752-2760.	1.8	33
266	Estudio del mecanismo de reacciÃ³n de la oxidaciÃ³n de isopropanol sobre Ã³xidos mixtos de Mn-Ti mediante espectroscopÃa FT-IR y cromatografÃa de gases. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 269-275.	0.9	0
267	An investigation of the surface acidity of mesoporous Al-containing MCM-41 and of the external surface of ferrierite through pivalonitrile adsorption. Applied Catalysis A: General, 1999, 182, 225-235.	2.2	97
268	IR studies on the activation of Câ€“H hydrocarbon bonds on oxidation catalysts. Catalysis Today, 1999, 49, 453-465.	2.2	80
269	Evaluation of V2O5â€“WO3â€“TiO2 and alternative SCR catalysts in the abatement of VOCs. Catalysis Today, 1999, 53, 525-533.	2.2	56
270	Skeletal infrared spectra and structural properties of La2â^'xSrxCuO4 and La2â^'xBaxCuO4 cuprate powders in the 0â‰¤xâ‰¤0.125 region. Physica C: Superconductivity and Its Applications, 1999, 319, 229-237.	0.6	28

#	Article	IF	Citations
271	A FT-IR study of the adsorption of C5 olefinic compounds on NaX zeolite. Vibrational Spectroscopy, 1999, 20, 85-94.	1.2	19
272	Selective saccharides dehydration to 5-hydroxymethyl-2-furaldehyde by heterogeneous niobium catalysts. Applied Catalysis A: General, 1999, 183, 295-302.	2.2	185
273	The Role of Titania Support in Mo-Based Hydrodesulfurization Catalysts. Journal of Catalysis, 1999, 184, 59-67.	3.1	111
274	Characterization and Reactivity of V2O5â€“MoO3/TiO2 De-NOx SCR Catalysts. Journal of Catalysis, 1999, 187, 419-435.	3.1	326
275	Characterisation of Feâ€“Crâ€“Al mixed oxides. Materials Chemistry and Physics, 1999, 60, 168-176.	2.0	13
276	A study of anataseâ€“supported Mn oxide as catalysts for 2-propanol oxidation. Applied Catalysis B: Environmental, 1999, 22, 249-259.	10.8	90
277	Synthesis and characterization of Fe-Ga mixed hydroxide powders. Journal of Materials Chemistry, 1999, 9, 1161-1166.	6.7	12
278	The surface acidity of solid oxides and its characterization by IR spectroscopic methods. An attempt at systematization. Physical Chemistry Chemical Physics, 1999, 1, 723-736.	1.3	480
279	The electronic structure of oxide-supported tungsten oxide catalysts as studied by UV spectroscopy. Catalysis Letters, 1998, 56, 29-33.	1.4	63
280	Characterization and Catalytic Activity of CuCl2-Al2O3Ethylene Oxychlorination Catalysts. Journal of Catalysis, 1998, 179, 606-618.	3.1	40
281	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. Journal of Catalysis, 1998, 179, 581-596.	3.1	188
282	Characterization of MoO3-P2O5-ZrO2 catalysts: an oxide-supported mixed oxide. Materials Chemistry and Physics, 1998, 55, 173-187.	2.0	11
283	Catalytic combustion of C3 hydrocarbons and oxygenates over Mn3O4. Applied Catalysis B: Environmental, 1998, 16, 43-51.	10.8	300
284	Characterization of manganese and iron oxides as combustion catalysts for propane and propene. Applied Catalysis B: Environmental, 1998, 17, L175-L182.	10.8	195
285	Chemical and mechanistic aspects of the selective catalytic reduction of NO by ammonia over oxide catalysts: A review. Applied Catalysis B: Environmental, 1998, 18, 1-36.	10.8	1,981
286	Catalytic combustion of methane over LaMnO3 perovskite supported on La2O3 stabilized alumina. A comparative study with Mn3O4, Mn3O4-Al2O3 spinel oxides. Proceedings of the Combustion Institute, 1998, 27, 2293-2299.	0.3	6
287	Characterization of aluminaâ€“titania mixed oxide supports. Microporous and Mesoporous Materials, 1998, 23, 265-275.	2.2	75
288	An FT-IR and flow reactor study of the selective catalytic oxy-dehydrogenation of C3 alcohols on Mn3O4. Applied Catalysis A: General, 1998, 166, 75-88.	2.2	45

#	Article	IF	Citations
289	Evaluation of the mechanism of the oxy-dehydrogenation of propane over manganese oxide. Applied Catalysis A: General, 1998, 173, 61-74.	2.2	59
290	Characterisation of zirconia-titania powders prepared by coprecipitation. Journal of the European Ceramic Society, 1998, 18, 1079-1087.	2.8	40
291	Spectroscopic characterization of the acid properties of metal oxide catalysts. Catalysis Today, 1998, 41, 191-206.	2.2	445
292	Chemical, structural and mechanistic aspects on NOx SCR over commercial and model oxide catalysts. Catalysis Today, 1998, 42, 101-116.	2.2	129
293	Structural, electro-magnetic and catalytic characterisation of the LaMn1â€“xCuxO3â€“δ system. Journal of Materials Chemistry, 1998, 8, 1815-1819.	6.7	9
294	A Vibrational and Spectroscopic Study of WO3/TiO2â^'Al2O3Catalyst Precursors. Langmuir, 1998, 14, 630-639.	1.6	67
295	Propane catalytic oxidation and oxy-dehydrogenation over manganese-based metal oxides.. Studies in Surface Science and Catalysis, 1998, 119, 635-640.	1.5	3
296	A study of Mn-Ti oxide powders and their behaviour in propane oxidation catalysis. Journal of Materials Chemistry, 1998, 8, 2525-2531.	6.7	91
297	Catalytic combustion of methane over transition metal oxides.. Studies in Surface Science and Catalysis, 1998, 119, 65-70.	1.5	16
298	On the mechanism of the selective oxy-dehydrogenation of n-butenes to 1,3-butadiene on magnesium ferrite: an FT-IR study. Studies in Surface Science and Catalysis, 1997, 110, 989-998.	1.5	6
299	Characterization of coprecipitated aluminiumâ€“chromium mixed hydroxides and of the products of their calcination. Journal of Materials Chemistry, 1997, 7, 1887-1893.	6.7	8
300	Ammonia Adsorption and Oxidation on Cu/Mg/Al Mixed Oxide Catalysts PreparedviaHydrotalcite-Type Precursors. Langmuir, 1997, 13, 4628-4637.	1.6	51
301	Vibrational and XRD Study of the System CdWO4â^'CdMoO4. Journal of Physical Chemistry B, 1997, 101, 4358-4369.	1.2	171
302	Ammonia oxidation over CuO/TiO2 catalyst: Selectivity and mechanistic study. Studies in Surface Science and Catalysis, 1997, 110, 643-652.	1.5	13
303	FTIR studies on the selective oxidation and combustion of light hydrocarbons at metal oxide surfaces Part 3.â€"Comparison of the oxidation of C3 organic compounds over Co3O4, MgCr2O4 and CuO. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 175-180.	1.7	67
304	Magnetic properties of partially-inverted zinc ferrite aerogel powders. Journal of Applied Physics, 1997, 81, 1851-1857.	1.1	257
305	Preparation and characterisation of SrTi1â^'xâ^'yZrxMnyO3 solid solution powders in relation to their use in combustion catalysis. Applied Catalysis B: Environmental, 1997, 12, 325-337.	10.8	23
306	An FT-IR study of ammonia adsorption and oxidation over anatase-supported metal oxides. Applied Catalysis B: Environmental, 1997, 13, 45-58.	10.8	292

#	Article	IF	Citations
307	An EPR Study of the Surface Chemistry of the V2O5â€“WO3/TiO2Catalyst: Redox Behaviour and State of V(IV). Journal of Catalysis, 1997, 166, 195-205.	3.1	104
308	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. Journal of Catalysis, 1997, 168, 334-348.	3.1	81
309	FT-IR Studies on Light Olefin Skeletal Isomerization Catalysis. Journal of Catalysis, 1997, 168, 349-363.	3.1	55
310	Thermal stability and structural aspects of Y1-x Pr x Ba2Cu3O7-y solid solution. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1111-1116.	0.4	1
311	Methanol oxidation over vanadia-based catalysts. Applied Catalysis A: General, 1997, 157, 387-408.	2.2	105
312	Characterization of alumina-titania mixed oxide supports I. TiO2-based supports. Microporous Materials, 1997, 12, 79-91.	1.6	39
313	FT-IR characterization of silicated aluminas, active olefin skeletal isomerization catalysts. Catalysis Today, 1997, 33, 335-352.	2.2	64
314	Transition metal mixed oxides as combustion catalysts: preparation, characterization and activity mechanisms. Catalysis Today, 1997, 33, 239-249.	2.2	95
315	Characterization of Silica-Containing Aluminum Hydroxide and Oxide Aerogels. Journal of Colloid and Interface Science, 1997, 190, 416-426.	5.0	26
316	IR study of alkene allylic activation on magnesium ferrite and alumina catalysts. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4687.	1.7	85
317	FTIR studies on the selective oxidation and combustion of light hydrocarbons at metal oxide surfaces. Part 2.â€”Propane and propene oxidation on Co3O4. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1587-1593.	1.7	107
318	Preparation, characterization and surface structure of coprecipitated high-area SrxTiO2 +x(0 â©½xâ©½ 1) powders. Journal of Materials Chemistry, 1996, 6, 879-886.	6.7	19
319	Hydrocarbon activation and oxidation on transition metal mixed oxides: Ft-IR and flow reactor studies. Studies in Surface Science and Catalysis, 1996, 101, 483-492.	1.5	12
320	Comparison of perovskite and hexaaluminate-type catalysts for CO/H2-fueled gas turbine combustors. Studies in Surface Science and Catalysis, 1996, 101, 473-482.	1.5	9
321	Fourier transform IR study of NOx adsorption on a CuZSM-5 DeNOx catalyst. Applied Catalysis B: Environmental, 1996, 7, 251-267.	10.8	138
322	Characterization and composition of commercial V2O5&z.sbnd;WO3&z.sbnd;TiO2 SCR catalysts. Applied Catalysis B: Environmental, 1996, 10, 299-311.	10.8	161
323	Infrared studies of the reactive adsorption of organic molecules over metal oxides and of the mechanisms of their heterogeneously-catalyzed oxidation. Catalysis Today, 1996, 27, 457-496.	2.2	277
324	Reactivity of V2O5-WO3/TiO2 catalysts in the selective catalytic reduction of nitric oxide by ammonia. Catalysis Today, 1996, 29, 143-148.	2.2	168

#	Article	IF	Citations
325	The use of vibrational spectroscopies in studies of heterogeneous catalysis by metal oxides: an introduction. Catalysis Today, 1996, 27, 323-352.	2.2	66
326	On the mechanisms of light alkane catalytic oxidation and oxy-dehydrogenation: an FT-IR study of the n-butane conversion over MgCr2O4 and a Mg-vanadate catalyst. Catalysis Today, 1996, 28, 381-389.	2.2	23
327	Reactivity of Keggin-type heteropolycompounds in the oxidation of isobutane to methacrolein and methacrylic acid: Reaction mechanism. Journal of Molecular Catalysis A, 1996, 114, 343-359.	4.8	52
328	Ammonia activation over catalysts for the selective catalytic reduction of NOx and the selective catalytic oxidation of NH3. An FT-IR study. Catalysis Today, 1996, 28, 373-380.	2.2	368
329	On the role of acidity in catalytic oxidation. Catalysis Today, 1996, 32, 133-143.	2.2	116
330	Characterization and reactivity of MgxFe2-2xO3-2x and MgyZn1-yFe2O4 solid solution spinels prepared through the supercritical drying method. Studies in Surface Science and Catalysis, 1995, 91, 667-676.	1.5	4
331	FT-IR Skeletal Powder Spectra of Ba-Î²-Aluminas with Compositions BaAl9O14.5, BaAl12O19, and BaAl14O22 and of Ba-Ferrite, BaFe12O19. Journal of Solid State Chemistry, 1995, 117, 8-15.	1.4	44
332	FT-IR skeletal study of RBa2Cu3O7â^'y (R = Ln or Y) and Nd2â^'xCexCuO4 cuprate powders. Journal of Solid State Chemistry, 1995, 119, 36-44.	1.4	13
333	The Activation of Hydrocarbon CH Bonds over Transition Metal Oxide Catalysts: A FTIR Study of Hydrocarbon Catalytic Combustion over MgCr2O4. Journal of Catalysis, 1995, 151, 204-215.	3.1	160
334	Reactivity and Physicochemical Characterization of V2O5-WO3/TiO2 De-NO Catalysts. Journal of Catalysis, 1995, 155, 117-130.	3.1	355
335	Spectroscopic Characterization of Silicalite-1 and Titanium Silicalite-1. Journal of Catalysis, 1995, 157, 482-500.	3.1	212
336	Adsorption, Activation, and Oxidation of Ammonia over SCR Catalysts. Journal of Catalysis, 1995, 157, 523-535.	3.1	387
337	Surface characterization of Ba-?-alumina. Catalysis Letters, 1995, 31, 65-74.	1.4	18
338	Ferrimagnetic zinc ferrite fine powders. IEEE Transactions on Magnetics, 1995, 31, 3808-3810.	1.2	33
339	Surface and structure characterization of some perovskite-type powders to be used as combustion catalysts. Chemistry of Materials, 1995, 7, 2115-2126.	3.2	60
340	Structure and magnetic properties of magnesium ferrite fine powders. Scripta Metallurgica Et Materialia, 1995, 33, 1695-1701.	1.0	53
341	Anatase crystal growth and phase transformation to rutile in high-area TiO2, MoO3â€“TiO2and other TiO2-supported oxide catalytic systems. Journal of Materials Chemistry, 1995, 5, 1245-1249.	6.7	85
342	Characterization of Î±-(Fe,Al)2O3solid-solution powders. Journal of Materials Chemistry, 1995, 5, 1943-1951.	6.7	21

#	Article	IF	Citations
343	FTIR study of the adsorption and transformation of allylbenzene over oxide catalysts. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1861.	1.7	16
344	MÃ¶ssbauer spectrometry study of magnesioferrite particles. Journal of Applied Physics, 1994, 76, 1135-1140.	1.1	36
345	Chapter 4 Characterization of V2O5-TiO2 Eurocat catalysts by vibrational and electronic spectroscopies. Catalysis Today, 1994, 20, 61-76.	2.2	41
346	Skeletal vibrations of cuprate superconductor-like phases: a comparison of the FT-FIR spectra of La2â^'x Sr x CuO4, Nd2â^'x Ce x CuO4 and RBa2 Cu3 O7â^'x (R=Ln or Y) Powders. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1785-1791.	0.4	4
347	Characterization of high-area Mg x Fe2O3+x (0 ?x ? 2) mono-phasic powders by vibrational spectropies. Journal of Materials Science Letters, 1994, 13, 275-279.	0.5	18
348	On the Vibrational Spectra and Structure of FeCrO3 and of the Ilmenite-Type Compounds CoTiO3 and NiTiO3. Journal of Solid State Chemistry, 1994, 112, 9-14.	1.4	100
349	IR studies on R Ba2 Cu3 O7â^'y single-crystals and powders. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1027-1028.	0.6	0
350	Conversion of 1-butene over WO3-TiO2 Catalysts. Applied Catalysis A: General, 1994, 107, 249-266.	2.2	58
351	Alumina-Supported Manganese Oxide Catalysts. Journal of Catalysis, 1994, 150, 105-116.	3.1	143
352	FT-IR study of the interaction of magnesium ferrite with SO2. Catalysis Letters, 1994, 23, 353-360.	1.4	18
353	Characterization of coprecipitated Fe2O3â€“Al2O3powders. Journal of Materials Chemistry, 1994, 4, 1123-1130.	6.7	26
354	Surface Chemistry of Oxidized and Reduced Chromia: a Fourier Transform Infrared Spectroscopy Study. Langmuir, 1994, 10, 4534-4541.	1.6	51
355	Spectroscopic characterization of magnesium vanadate catalysts. Part 1.â€”Vibrational characterization of Mg3(VO4)2, Mg2V2O7and MgV2O6powders. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 1161-1170.	1.7	77
356	Solid-state and surface chemistry of CuOâ€“TiO2(anatase) powders. Journal of Materials Chemistry, 1994, 4, 965-971.	6.7	54
357	Solid-State and Surface Spectroscopic Characterization of BaTiO3 Fine Powders. Chemistry of Materials, 1994, 6, 955-961.	3.2	184
358	FT Raman and FTIR studies of titanias and metatitanate powders. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3181.	1.7	199
359	FTIR studies on the selective oxidation and combustion of light hydrocarbns at metal oxide surfaces. Propane and propene oxidation on MgCr2O4. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3347.	1.7	72
360	Spectroscopic characterization of magnesium vanadate catalysts. Part 2.â€”FTIR study of the surface properties of pure and mixed-phase powders. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 1293-1299.	1.7	21

#	Article	IF	Citations
361	Characterization of silicated anatase powders. Journal of Materials Chemistry, 1994, 4, 1755.	6.7	23
362	On the catalyst features affecting selectivity in n-C4 hydrocarbon oxidation and oxidative dehydrogenation. Ft-IR studies. Studies in Surface Science and Catalysis, 1994, , 253-263.	1.5	13
363	Effect of K-doping on 2-propanol adsorption, desorption and catalytic oxidation over vanadia-titania. Studies in Surface Science and Catalysis, 1994, , 777-785.	1.5	1
364	Preparation and Evaluation of Mixed Magnesium Oxide-Iron Oxide Aerogels for the Selective Catalytic Reduction of Nitric Oxide. , 1994, , 351-361.		0
365	Determination of the geometry of adsorbed unsaturated molecules through the analysis of the CH out-of-plane deformation modes. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 297-305.	0.8	19
366	High-quartz solid-solution phases from xerogels with composition 2MgO.2Al2O3.5SiO2 (Î¼-cordierite) and Li2O.Al2O3.nSiO2 (n = 2 to 4) (Î²-eucryptite): Characterization by XRD, FTIR and surface measurements. Journal of the European Ceramic Society, 1993, 11, 299-308.	2.8	49
367	Surface and catalytic properties of Vanadia-Titania and Tungsta-Titania systems in the Selective Catalytic Reduction of nitrogen oxides. Catalysis Today, 1993, 17, 131-139.	2.2	95
368	A FT-IR assessment of iso-C4H8 reactivity with V2O5/TiO2 catalysts. Catalysis Letters, 1993, 18, 329-335.	1.4	8
369	On the effect of dopants and additives on the state of surface vanadyl centers of vanadia-titania catalysts. Catalysis Letters, 1993, 18, 299-303.	1.4	81
370	Preparation and characterization of Fe2â€“xCrxO3mixed oxide powders. Journal of Materials Chemistry, 1993, 3, 665-673.	6.7	29
371	Surface structure and reactivity of molybdenaâ€“titania catalysts prepared by different methods. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1071-1078.	1.7	24
372	Thermal stability of vanadiaâ€“titania catalysts. Journal of Materials Chemistry, 1993, 3, 1239-1249.	6.7	89
373	Infrared characterization of the hydrocarbon intermediates in the oxidation of toluene and xylenes over vanadiaâ€“titania catalysts. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 753-755.	1.7	26
374	Potassium doping of vanadia/titania de-NOxing catalysts: Surface characterisation and reactivity study. Applied Catalysis B: Environmental, 1993, 3, 13-35.	10.8	106
375	Surface sites on spinel-type and corundum-type metal oxide powders. Langmuir, 1993, 9, 1492-1499.	1.6	180
376	PREPARATION AND CHARACTERIZATION OF MAGNESIUM CHROMITE AND MAGNESIUM FERRITE AEROGELS. Chemical Engineering Communications, 1993, 123, 1-16.	1.5	82
377	Chemistry and structure of mixed magnesium ferric oxide aerogels. Journal of Materials Research, 1993, 8, 1418-1427.	1.2	35
378	Selective and Nonselective Pathways in Oxidation and Ammoxidation of Methyl-Aromatic Compounds over Vanadiaâ€”Titania Catalysts. ACS Symposium Series, 1993, , 168-182.	0.5	10

#	Article	IF	Citations
379	Heterogeneous catalytic ammoximation of cyclohexanone with ammonia and molecular oxygen. Studies in Surface Science and Catalysis, 1993, , 247-252.	1.5	2
380	Low-Temperature Oxidation of Light Paraffins and Olefins at Solid Surfaces: Ft-Ir Studies. Studies in Surface Science and Catalysis, 1993, 75, 2661-2664.	1.5	0
381	An infrared spectroscopic study of the interaction of olefins on vanadia-titania and PdCl2-vanadia-titania selective oxidation catalysts. Studies in Surface Science and Catalysis, 1992, 72, 335-343.	1.5	0
382	Characterization of tungsta-titania catalysts. Langmuir, 1992, 8, 1744-1749.	1.6	193
383	Characterization of microporous amorphous aluminaâ€“boria. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 2065-2070.	1.7	40
384	Fourier-transform infrared study of the oxidation and oxidative dehydrogenation of n-butenes on the surface of FeCrO3. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 2783.	1.7	19
385	Spectroscopic analysis of titania-tungsta-vanadia de NOxing catalysts. Applied Catalysis B: Environmental, 1992, 1, L9-L13.	10.8	20
386	Preparation, solid-state characterization, and surface chemistry of high-surface-area nickel-aluminum (NixAl2-2xO3-2x) mixed oxides. Chemistry of Materials, 1992, 4, 595-605.	3.2	83
387	Surface reactivity of coals toward water and n-hexane and adsorption microcalorimetric study. Langmuir, 1992, 8, 104-108.	1.6	4
388	Mullite-Type Structures in the Systems Al2O3-Me2O (Me = Na, K) and Al2O3-B2O3. Journal of the American Ceramic Society, 1992, 75, 1929-1934.	1.9	117
389	FTâ€”IR and flow reactor studies on heterogeneously catalyzed gas-phase ammoximation of cyclohexanone. Journal of Molecular Catalysis, 1992, 71, 111-127.	1.2	25
390	Preparation, bulk characterization and surface chemistry of high-surface-area cobalt aluminate. Materials Chemistry and Physics, 1992, 31, 221-228.	2.0	48
391	Surface acidity of silica-titania mixed oxides. Journal of Catalysis, 1992, 135, 505-517.	3.1	70
392	FT-IR spectra of ethylene molecularly adsorbed on metal oxides. Journal of Molecular Structure, 1992, 267, 315-329.	1.8	24
393	Surface reactivity and morphology of vanadia-titania catalysts. Surface Science, 1991, 251-252, 825-830.	0.8	17
394	Benzeneâ€“ammonia coadsorption on TiO2(anatase). Journal of the Chemical Society, Faraday Transactions, 1991, 87, 175-178.	1.7	30
395	Surface basicity of mixed oxides: magnesium and zinc aluminates. Langmuir, 1991, 7, 2677-2681.	1.6	56
396	FT-IR studies of the reactivity of vanadia-titania catalysts toward olefins. 3. Butenes and isobutene. The Journal of Physical Chemistry, 1991, 95, 5541-5545.	2.9	32

#	Article	IF	Citations
397	Heat-flow microcalorimetric study of the adsorptive properties of a slightly weathered bituminous coal. Colloids and Surfaces, 1991, 54, 297-311.	0.9	5
398	FT-113 study of the surface properties of the spinels NiAl2O4 and CoAl2O4 in relation to those of transitional aluminas. Journal of Catalysis, 1991, 131, 167-177.	3.1	172
399	Chemistry of olefins at metal oxide surfaces: a tool for surface science investigation of oxide catalysts. Materials Chemistry and Physics, 1991, 29, 175-189.	2.0	33
400	Low-temperature CO2 adsorption on metal oxides: spectroscopic characterization of some weakly adsorbed species. Materials Chemistry and Physics, 1991, 29, 425-435.	2.0	182
401	Fourier transform infrared spectroscopic studies of the reactivity of vanadia-titania catalysts toward olefins. 1. Propylene. The Journal of Physical Chemistry, 1990, 94, 8939-8945.	2.9	88
402	Fourier transform infrared spectroscopic studies of the reactivity of vanadia-titania catalysts toward olefins. 2. Ethylene. The Journal of Physical Chemistry, 1990, 94, 8945-8950.	2.9	35
403	Electron spin resonance of V(4+) centers in V-Ti complex oxide powders. Materials Chemistry and Physics, 1990, 25, 475-485.	2.0	22
404	On the consistency of data obtained from different techniques concerning the surface structure of vanadia-titania catalysts: Reply to the comment of Israel E. Wachs. Journal of Catalysis, 1990, 124, 574-576.	3.1	67
405	Characterization of silica-titania mixed oxides. Journal of Catalysis, 1990, 125, 541-553.	3.1	114
406	IR spectra of hydrogen absorbed on solids. Journal of Molecular Structure, 1990, 218, 363-368.	1.8	5
407	Characterization of the surface properties of polycrystalune WO3. Journal of Molecular Catalysis, 1990, 61, 319-331.	1.2	57
408	FT-IR study of the brÃ¸nsted acidity of phosphated and sulphated silica catalysts. Journal of Molecular Structure, 1990, 218, 417-422.	1.8	15
409	FT-IR Study of Selective Oxidation Intermediates of Benzene on The Surface of Vanadia-Titania â€œMonolayerâ€•Catalysts. Studies in Surface Science and Catalysis, 1990, 55, 825-831.	1.5	4
410	Modification of the surface pathways in alkane oxidation by selective doping of Broensted acid sites of vanadyl pyrophosphate. The Journal of Physical Chemistry, 1990, 94, 6813-6819.	2.9	71
411	Oxyesterification of Methanol To Methylformate Over V-Ti Oxide Catalysts. Studies in Surface Science and Catalysis, 1990, 55, 305-315.	1.5	3
412	Fourier-transform infrared study of the surface properties of cobalt oxides. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 989.	1.7	121
413	Effect of phosphate ions on the surface chemistry and microstructure of amorphous alumina. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 3653.	1.7	44
414	Fourier transform infrared study of the adsorption and coadsorption of nitric oxide, nitrogen dioxide and ammonia on TiO2 anatase. Applied Catalysis, 1990, 64, 243-257.	1.1	223

#	Article	IF	Citations
415	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. Applied Catalysis, 1990, 64, 259-278.	1.1	405
416	Characterization and catalytic activity of cobalt-chromium mixed oxides. Langmuir, 1990, 6, 1440-1447.	1.6	61
417	Surface Acidity of Solid Acids and Superacids: A Ft-Ir Study of the Behaviour of Titania Doped with Phosphoric, Sulphuric, Tungstic and Molybdic Acids. Studies in Surface Science and Catalysis, 1989, 48, 777-786.	1.5	16
418	Effect of Cobalt on the Surface Properties of Zn-Cr and Cu-Zn-Cr Methanol Synthesis Catalysts. Studies in Surface Science and Catalysis, 1989, 48, 239-248.	1.5	2
419	On the surface structure of vanadia-titania catalysts: Combined laser-Raman and fourier transform-infrared investigation. Journal of Catalysis, 1989, 116, 586-589.	3.1	147
420	Surface characterization of amorphous alumina and its crystallization products. Journal of Catalysis, 1989, 117, 42-51.	3.1	78
421	Fourier transform-infrared spectroscopic study of the adsorption of hydrogen on chromia and on some metal chromites. Journal of Catalysis, 1989, 120, 303-313.	3.1	34
422	Structure and surface area evolution of vanadia-on-titania powders upon heat treatment. Materials Chemistry and Physics, 1989, 22, 511-521.	2.0	10
423	On the mechanism of the selective oxidation of C4 linear hydrocarbons to maleic anhydride: An FT-IR study of the adsorption and oxidation of 1,3-butadiene on vanadia-titania. Journal of Molecular Catalysis, 1989, 55, 1-11.	1.2	26
424	Surface properties of zno-based catalysts and related mechanistic features of the higher alcohol synthesis by FT-IR spectroscopy and TPSR. Journal of Molecular Catalysis, 1989, 55, 43-54.	1.2	29
425	FT-IR study of the surface properties of polycrystalline vanadia. Journal of Molecular Catalysis, 1989, 50, 231-240.	1.2	101
426	On the mechanism of methanol oxidation over vanadia-based catalysts: a FT-IR study of the adsorption of methanol, formaldehyde and formic acid on vanad. Journal of Molecular Catalysis, 1989, 50, 241-249.	1.2	65
427	FTIR spectra of adsorbed n-butylamine. Journal of Molecular Structure, 1989, 193, 93-100.	1.8	41
428	Surface Chemistry and Structure of Ultrafine Silicon Carbide: An FT-IR Study. Journal of the American Ceramic Society, 1989, 72, 1692-1697.	1.9	53
429	Mechanism and active sites for methanol oxidation to methyl formate over coprecipitated vanadium-titanium oxide catalysts. Industrial & Engineering Chemistry Research, 1989, 28, 387-393.	1.8	54
430	Surface dynamics of adsorbed species on heterogeneous oxidation catalysts. Evidence from the oxidation of C4 and C5 alkanes on vanadyl pyrophosphate. Journal of the American Chemical Society, 1989, 111, 46-54.	6.6	64
431	Phosphoric acid on oxide carriers. 1. Characterization of silica, alumina, and titania impregnated by phosphoric acid. Langmuir, 1989, 5, 911-916.	1.6	76
432	Phosphoric acid on oxide carriers. 2. Surface acidity and reactivity toward olefins. Langmuir, 1989, 5, 917-923.	1.6	60

#	Article	IF	Citations
433	Nature of active species of (VO)2P2O7for selective oxidation of n-butane to maleic anhydride. Faraday Discussions of the Chemical Society, 1989, 87, 215-225.	2.2	63
434	Adsorption and oligomerization of isobutene on oxide catalyst surfaces. A Fourier-transform infrared study. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 137.	1.0	19
435	Structure and reactivity of zincâ€“chromium mixed oxides. Part 3.â€”The surface interaction with carbon monoxide. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 237.	1.0	29
436	FT-IR Characterization of High Surface Area Silicon Nitride and Carbide. , 1989, , 173-184.		18
437	FT-IR and FT-FIR studies of vanadium, molybdenum and tungsten oxides supported on different carriers. Mikrochimica Acta, 1988, 95, 57-61.	2.5	10
438	Surface oxidation of high-surface-area silicon carbide: FT-IR studies. Mikrochimica Acta, 1988, 95, 75-77.	2.5	5
439	FT-IR study of the Î´(OH) mode of surface hydroxy groups on metal oxides. Journal of Molecular Structure, 1988, 175, 453-458.	1.8	35
440	Evolution of the surface of haematite prepared by thermal decomposition of goethite: A microcalorimetric study. Colloids and Surfaces, 1988, 32, 75-85.	0.9	8
441	FT-IR characterization of Siî—¸H bonds on the surface of silicon carbide.. Journal of Molecular Structure, 1988, 174, 369-374.	1.8	10
442	On the nature of vanadia supported on different carriers: An FT-IR study. Materials Chemistry and Physics, 1988, 19, 157-165.	2.0	50
443	Characterization of the surface basicity of oxides by means of microcalorimetry and fourier transform infrared spectroscopy of adsorbed hexafluoroisopropanol. Journal of Catalysis, 1988, 109, 378-386.	3.1	34
444	Surface acidity of the layered pyrophosphates of quadrivalent Ti, Zr, Ge, and Sn and their activity in some acid-catalysed reactions. Journal of the Chemical Society Dalton Transactions, 1988, , 881.	1.1	27
445	Structure and reactivity of zincâ€“chromium mixed oxides. Part 2.â€”Study of the surface reactivity by temperature-programmed desorption of methanol. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 1423.	1.0	35
446	Fourier transform i.r. detection of adsorbed hydrogen on a Cuâ€“Znâ€“Cr low temperature methanol synthesis catalyst. Journal of the Chemical Society Chemical Communications, 1988, , 788-790.	2.0	4
447	Surface structure and reactivity of vanadium oxide supported on titanium dioxide. V2O5/TiO2(rutile) Catalysts prepared by Hydrolysis. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 237.	1.0	85
448	Structure and reactivity of zincâ€“chromium mixed oxides. Part 1.â€”The role of non-stoichiometry on bulk and surface properties. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 1405.	1.0	51
449	â€œStopped-Flow Desorptionâ€•Analysis of the Nature of Strongly Adsorbed Species During n-Butane Oxidation in a Flow Reactor. Studies in Surface Science and Catalysis, 1987, , 427-438.	1.5	3
450	FT-IR study of the adsorption and transformation of formaldehyde on oxide surfaces. Journal of the American Chemical Society, 1987, 109, 5197-5202.	6.6	555

#	Article	IF	Citations
451	FT-IR Study of the Dispersion of the Supported Phase on MoO₃-TiO₂ Catalysts. Zeitschrift Fur Physikalische Chemie, 1987, 153, 189-200.	1.4	22
452	FT-IR study of the reactivity of molybdenum oxide supported on titania. Applied Catalysis, 1987, 32, 305-313.	1.1	15
453	Mechanism of selective methanol oxidation over vanadium oxide-titanium oxide catalysts: a FT-IR and flow reactor study. The Journal of Physical Chemistry, 1987, 91, 5263-5269.	2.9	199
454	A fourier-transform infrared and catalytic study of the evolution of the surface acidity of zirconium phosphate following heat treatment. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 853.	1.0	43
455	Structural effects on the adsorption of alcohols on titanium dioxides. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 1591.	1.0	80
456	The promoting role of Cr and K in catalysts for high-pressure and high-temperature methanol and higher-alcohol synthesis. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 2213.	1.0	33
457	Methyl formate from methanol oxidation over coprecipitated V-Ti-O catalysts. Industrial & Engineering Chemistry Research, 1987, 26, 1269-1275.	1.8	57
458	Microcalorimetric and FT-IR spectroscopic study of the adsorption of isopropyl alcohol and hexafluoroisopropyl alcohol on titanium dioxide. Langmuir, 1987, 3, 52-58.	1.6	84
459	FT-i.r. study of molecular interactions of olefins with oxide surfaces. Spectrochimica Acta Part A: Molecular Spectroscopy, 1987, 43, 489-496.	0.1	51
460	Oxidation of methanol to methyl formate over V-Ti oxide catalysts. Catalysis Today, 1987, 1, 209-218.	2.2	63
461	Evidence for the formation of an antase-type Vî—¸Ti oxide solid-state solution. Journal of Solid State Chemistry, 1987, 67, 91-97.	1.4	44
462	FT-IR study of the surface of copper oxide. Journal of Molecular Catalysis, 1987, 43, 225-236.	1.2	114
463	Heterolytic dissociation of hydrogen on high-temperature methanol synthesis catalysts. Journal of Catalysis, 1987, 108, 491-494.	3.1	11
464	Nature of active species in the ammoxidation of toluene over V2O5/TiO2 catalysts prepared by flash-drying. Journal of Catalysis, 1987, 106, 251-262.	3.1	49
465	Oxidation and ammoxidation of toluene over vanadium-titanium oxide catalysts: A Fourier transform infrared and flow reactor study. Journal of Catalysis, 1987, 106, 471-482.	3.1	94
466	Surface acidity of vanadyl pyrophosphate, active phase in n-butane selective oxidation. The Journal of Physical Chemistry, 1986, 90, 1337-1344.	2.9	143
467	Coadsorption of methanol and carbon dioxide on alumina. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 3019.	1.0	24
468	FT-IR study of the surface chemistry of anatase-supported vanadium oxide monolayer catalysts. Langmuir, 1986, 2, 577-582.	1.6	96

#	Article	IF	Citations
469	Chemical and spectroscopic study of the nature of a vanadium oxide monolayer supported on a high-surface-area TiO2 anatase. Langmuir, 1986, 2, 568-577.	1.6	150
470	n-Butane selective oxidation on vanadium-based oxides : Dependence on catalyst microstructure. Applied Catalysis, 1986, 25, 265-272.	1.1	70
471	FT-IR study of the effect of pretreatment on the surface properties of alumina produced by flame hydrolysis of aluminium trichloride. Applied Catalysis, 1986, 24, 249-255.	1.1	20
472	Adsorption of Methanol on Alumina in the 298â€“473 K Temperature Range: A Microcalorimetric and FTâ€“IR Spectroscopic Study. Zeitschrift Fur Physikalische Chemie, 1986, 149, 99-111.	1.4	11
473	FT-IR study of the surface properties of K2O-TiO2. Applied Surface Science, 1986, 27, 114-126.	3.1	26
474	FT-IR studies of unsaturated and aromatic hydrocarbons adsorbed on metal oxide catalysts. Journal of Molecular Structure, 1986, 141, 395-398.	1.8	7
475	FT-IR characterization of silicon nitride Si3N4 and silicon oxynitride Si2ON2 surfaces. Journal of Molecular Structure, 1986, 143, 525-528.	1.8	53
476	FT-IR study of the surface properties of silicon nitride. Materials Chemistry and Physics, 1986, 14, 123-140.	2.0	80
477	Nature and mechanism of formation of vanadyl pyrophosphate: Active phase in n-butane selective oxidation. Journal of Catalysis, 1986, 99, 400-414.	3.1	183
478	Use of overtone bands to monitor the state of the catalyst active phases during infrared studies of adsorption and catalytic reactions. Spectrochimica Acta Part A: Molecular Spectroscopy, 1986, 42, 443-445.	0.1	80
479	Microcalorimetric and FT-IR spectroscopic study of the adsorption of methanol on TiO2 (anatase). Colloids and Surfaces, 1985, 16, 95-102.	0.9	22
480	Fourier transform-infrared study of the adsorption of unsaturated and aromatic hydrocarbons on the surface of Î±-Fe2O3. Part III. Toluene, ethylbenzene and styrene. Reaction Kinetics and Catalysis Letters, 1985, 27, 429-432.	0.6	20
481	Infrared studies of the surface of Î±-Fe2O3. Materials Chemistry and Physics, 1985, 13, 261-281.	2.0	34
482	A TPD, FT-IR and Catalytic Study of the Interaction of Methanol with Pure and KOH DOPED TiO2 Anatase. Studies in Surface Science and Catalysis, 1985, 20, 15-24.	1.5	15
483	Fourier transform i.r. evidence of the formation of dioxymethylene species from formaldehyde adsorption on anatase and thoria. Journal of the Chemical Society Chemical Communications, 1985, , 1006.	2.0	46
484	Surface characterization of a grafted vanadiumâ€“titanium dioxide catalyst. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 1003.	1.0	75
485	Microcalorimetric and Fourier transform infrared spectroscopic studies of methanol adsorption on alumina. The Journal of Physical Chemistry, 1985, 89, 5433-5439.	2.9	143
486	FT-IR characterization of the surface acidity of different titanium dioxide anatase preparations. Applied Catalysis, 1985, 14, 245-260.	1.1	372

#	Article	IF	Citations
487	Nature of the active sites for alkane-selective oxidation on vanadium-phosphorus oxides. Journal of the American Chemical Society, 1985, 107, 7757-7758.	6.6	47
488	FT-IR study of the acid sites on the surface of silica supported ruthenium oxide. Applications of Surface Science, 1984, 18, 268-272.	1.0	0
489	The FTî—¸IR spectrum of the S-cis conformer of 1,3-butadiene, slightly perturbed on silica surface. Journal of Molecular Structure, 1984, 117, 103-107.	1.8	8
490	Fourier transform-infrared study of the adsorption of unsaturated and aromatic hydrocarbons on the surface of $alpha;-Fe2O3 I. Ethylene. Journal of Catalysis, 1984, 88, 125-130.	3.1	11
491	Fourier transform-infrared study of the adsorption of unsaturated and aromatic hydrocarbons on the surface of $alpha;-Fe2O3 II. Benzene. Journal of Catalysis, 1984, 88, 131-136.	3.1	10
492	The ET-IR spectrum of ethylene adsorbed on Na A zeolite. Materials Chemistry and Physics, 1984, 10, 499-502.	2.0	1
493	Microcalorimetric and FT-IR spectroscopic study of benzene adsorption on Î±-Fe2O3 and Î³-Al2O3. Journal of Thermal Analysis, 1984, 29, 745-753.	0.7	4
494	Corrosion fatigue behaviour of iron in different aqueous environments. Materials Chemistry and Physics, 1983, 9, 387-403.	2.0	5
495	Infrared determination of the coordination state of CO2â^'3 ions in cerium and thorium tetracarbonato complexes. Journal of Molecular Structure, 1983, 102, 137-143.	1.8	7
496	Vibrational frequency and coordination of molecular oxygen in surface and inorganic complexes. Computational and Theoretical Chemistry, 1983, 105, 11-16.	1.5	6
497	An infra-red spectroscopic study of the interactions of aminopyridines with iron oxide layers. Corrosion Science, 1983, 23, 789-792.	3.0	4
498	Infrared study of the reactivity of acetone and hexachloroacetone adsorbed on haematite. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 2911.	1.0	35
499	Infrared study of adsorption on oxygen-covered Î±-Fe2O3: bands due to adsorbed oxygen and their modification by co-adsorbed hydrogen or water. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 979.	1.0	51
500	IR study of isopropanol adsorption on haematite. Reaction Kinetics and Catalysis Letters, 1982, 20, 373-376.	0.6	6
501	FT-IR spectroscopic study of phosphate and chromate conversion coatings on aluminum. Materials Chemistry, 1982, 7, 7-18.	0.4	15
502	Infrared spectroscopic identification of species arising from reactive adsorption of carbon oxides on metal oxide surfaces. Materials Chemistry, 1982, 7, 89-126.	0.4	814
503	Infrared spectra of cerium and thorium pentacarbonate complexes. Journal of Molecular Structure, 1982, 79, 403-408.	1.8	41
504	Infrared studies of the diatomic molecules O2, N2, NO and H2 adsorbed on Fe2O3. Journal of Molecular Structure, 1982, 80, 181-186.	1.8	15

#	Article	IF	Citations
505	Infrared study of chemisorption and reactivity of pyridine on haematite. Materials Chemistry, 1981, 6, 175-185.	0.4	14
506	Infrared study of the adsorption of nitrogen dioxide, nitric oxide and nitrous oxide on hematite. Journal of Catalysis, 1981, 72, 303-313.	3.1	114
507	Infrared evidence for the formation of oxidised species from N2 adsorbed on $alpha;-Fe2O3 surfaces. Journal of Catalysis, 1981, 72, 389-391.	3.1	9
508	Infrared study of CO2 adsorption on haematite. Materials Chemistry, 1980, 5, 213-223.	0.4	30
509	Infrared study of methanol, formaldehyde, and formic acid adsorbed on hematite. Journal of Catalysis, 1980, 66, 155-161.	3.1	109
510	IR characterization of surface hydroxy groups on haematite. Reaction Kinetics and Catalysis Letters, 1980, 15, 273-278.	0.6	19
511	Water adsoprtion on micronized magnetite. Materials Chemistry, 1978, 3, 49-53.	0.4	3
512	Infrared spectroscopic study of micronised geothite. Materials Chemistry, 1978, 3, 271-283.	0.4	9
513	A study of molybdena catalysts in ethanol oxidation. Part 1. Unsupported and silicaâ€supported MoO 3. Journal of Chemical Technology and Biotechnology, 0, , .	1.6	2