

Jacob A Moulijn

List of Publications by Year in descending order

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619
papers

47,171
citations

1614

105
h-index

3182

186
g-index

657
all docs

657
docs citations

657
times ranked

25750
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of nitrogen functionalities in carbonaceous materials during pyrolysis. <i>Carbon</i> , 1995, 33, 1641-1653.	10.3	1,815
2	Science and technology of novel processes for deep desulfurization of oil refinery streams: a review. <i>Fuel</i> , 2003, 82, 607-631.	6.4	1,483
3	Heterogeneous catalytic decomposition of nitrous oxide. <i>Applied Catalysis B: Environmental</i> , 1996, 9, 25-64.	20.2	834
4	Catalyst deactivation: is it predictable?. <i>Applied Catalysis A: General</i> , 2001, 212, 3-16.	4.3	668
5	Activity and selectivity of pure manganese oxides in the selective catalytic reduction of nitric oxide with ammonia. <i>Applied Catalysis B: Environmental</i> , 1994, 3, 173-189.	20.2	662
6	Temperature-programmed reduction of CoO/Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1985, 93, 38-54.	6.2	616
7	Direct Demonstration of Enhanced Diffusion in Mesoporous ZSM-5 Zeolite Obtained via Controlled Desilication. <i>Journal of the American Chemical Society</i> , 2007, 129, 355-360.	13.7	616
8	Multiphase monolith reactors: Chemical reaction engineering of segmented flow in microchannels. <i>Chemical Engineering Science</i> , 2005, 60, 5895-5916.	3.8	540
9	Desilication: on the controlled generation of mesoporosity in MFI zeolites. <i>Journal of Materials Chemistry</i> , 2006, 16, 2121-2131.	6.7	519
10	Formation and control of N ₂ O in nitric acid production. <i>Applied Catalysis B: Environmental</i> , 2003, 44, 117-151.	20.2	509
11	Science and technology of catalytic diesel particulate filters. <i>Catalysis Reviews - Science and Engineering</i> , 2001, 43, 489-564.	12.9	496
12	Preparation of monolithic catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2001, 43, 345-380.	12.9	474
13	Mechanism of Hierarchical Porosity Development in MFI Zeolites by Desilication: The Role of Aluminium as a Pore-Directing Agent. <i>Chemistry - A European Journal</i> , 2005, 11, 4983-4994.	3.3	473
14	Optimal Aluminum-Assisted Mesoporosity Development in MFI Zeolites by Desilication. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13062-13065.	2.6	463
15	The Production of Propene Oxide: Catalytic Processes and Recent Developments. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 3447-3459.	3.7	456
16	Creation of Hollow Zeolite Architectures by Controlled Desilication of Al-Zoned ZSM-5 Crystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 10792-10793.	13.7	452
17	Monoliths in Heterogeneous Catalysis. <i>Catalysis Reviews - Science and Engineering</i> , 1994, 36, 179-270.	12.9	415
18	Alumina-Supported Manganese Oxide Catalysts. <i>Journal of Catalysis</i> , 1994, 150, 94-104.	6.2	403

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19	A review of intensification of photocatalytic processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 781-789.	3.6	387
20	Enhanced soot oxidation by lattice oxygen via La ³⁺ -doped CeO ₂ . <i>Journal of Catalysis</i> , 2005, 230, 237-248.	6.2	379
21	Inertial and interfacial effects on pressure drop of Taylor flow in capillaries. <i>AIChE Journal</i> , 2005, 51, 2428-2440.	3.6	365
22	The development of nitrogen functionality in model chars during gasification in CO ₂ and O ₂ . <i>Carbon</i> , 1999, 37, 1143-1150.	10.3	352
23	Catalysts for the oxidation of soot from diesel exhaust gases. I. An exploratory study. <i>Applied Catalysis B: Environmental</i> , 1996, 8, 57-78.	20.2	336
24	On the introduction of intracrystalline mesoporosity in zeolites upon desilication in alkaline medium. <i>Microporous and Mesoporous Materials</i> , 2004, 69, 29-34.	4.4	329
25	Diesel particulate emission control. <i>Fuel Processing Technology</i> , 1996, 47, 1-69.	7.2	326
26	Role of gold cations in the oxidation of carbon monoxide catalyzed by iron oxide-supported gold. <i>Journal of Catalysis</i> , 2006, 242, 71-81.	6.2	322
27	Potential rare earth modified CeO ₂ catalysts for soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2007, 75, 189-200.	20.2	304
28	Permeation characteristics of a metal-supported silicalite-1 zeolite membrane. <i>Journal of Membrane Science</i> , 1996, 117, 57-78.	8.2	299
29	The role of NO ₂ and O ₂ in the accelerated combustion of soot in diesel exhaust gases. <i>Applied Catalysis B: Environmental</i> , 2004, 50, 185-194.	20.2	278
30	Temperature-programmed reduction of NiO/WO ₃ /Al ₂ O ₃ Hydrodesulphurization catalysts. <i>Applied Catalysis</i> , 1989, 46, 11-30.	0.8	275
31	Direct Epoxidation of Propene Using Gold Dispersed on TS-1 and Other Titanium-Containing Supports. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 884-891.	3.7	273
32	Temperature dependence of one-component permeation through a silicalite-1 membrane. <i>AIChE Journal</i> , 1997, 43, 2203-2214.	3.6	267
33	Catalytic pyrolysis of microalgae to high-quality liquid bio-fuels. <i>Biomass and Bioenergy</i> , 2011, 35, 3199-3207.	5.7	263
34	Kinetics of the oxidation of diesel soot. <i>Fuel</i> , 1997, 76, 1129-1136.	6.4	258
35	Stability and Selectivity of Au/TiO ₂ and Au/TiO ₂ /SiO ₂ Catalysts in Propene Epoxidation: An in Situ FT-IR Study. <i>Journal of Catalysis</i> , 2001, 201, 128-137.	6.2	244
36	Separation and permeation characteristics of a DD3R zeolite membrane. <i>Journal of Membrane Science</i> , 2008, 316, 35-45.	8.2	244

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37	Kinetic Analysis of the Decomposition of Nitrous Oxide over ZSM-5 Catalysts. <i>Journal of Catalysis</i> , 1997, 167, 256-265.	6.2	237
38	Mass transfer characteristics of three-phase monolith reactors. <i>Chemical Engineering Science</i> , 2001, 56, 6015-6023.	3.8	237
39	Fermentation of Glucose to Lactic Acid Coupled with Reactive Extraction: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 5969-5982.	3.7	222
40	Catalysts for the oxidation of soot from diesel exhaust gases II. Contact between soot and catalyst under practical conditions. <i>Applied Catalysis B: Environmental</i> , 1997, 12, 21-31.	20.2	219
41	Alumina supported manganese oxides for the low-temperature selective catalytic reduction of nitric oxide with ammonia. <i>Applied Catalysis B: Environmental</i> , 1992, 1, 297-316.	20.2	218
42	In-situ investigation of the thermal decomposition of Co-Al hydrotalcite in different atmospheres. <i>Journal of Materials Chemistry</i> , 2001, 11, 821-830.	6.7	218
43	Towards a unified theory of reactions of carbon with oxygen-containing molecules. <i>Carbon</i> , 1995, 33, 1155-1165.	10.3	216
44	The generalized Maxwell-Stefan model for diffusion in zeolites. <i>Chemical Engineering Science</i> , 2000, 55, 2923-2930.	3.8	216
45	Decoupling mesoporosity formation and acidity modification in ZSM-5 zeolites by sequential desilication-dealumination. <i>Microporous and Mesoporous Materials</i> , 2005, 87, 153-161.	4.4	214
46	Alkaline-mediated mesoporous mordenite zeolites for acid-catalyzed conversions. <i>Journal of Catalysis</i> , 2007, 251, 21-27.	6.2	211
47	CeO ₂ catalysed soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2004, 51, 9-19.	20.2	209
48	Temperature-programmed sulfiding of MoO ₃ /Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1985, 92, 35-55.	6.2	206
49	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. <i>Journal of Catalysis</i> , 2002, 207, 113-126.	6.2	197
50	The six-flow reactor technology A review on fast catalyst screening and kinetic studies. <i>Catalysis Today</i> , 2000, 60, 93-109.	4.4	194
51	Characterization of γ -alumina-supported Molybdenum oxide and tungsten oxide; reducibility of the oxidic state versus hydrodesulfurization activity of the sulfided state. <i>Journal of Catalysis</i> , 1982, 76, 241-253.	6.2	193
52	The mechanism of low-temperature CO oxidation with Au/Fe ₂ O ₃ catalysts: a combined M \ddot{u} ssbauer, FT-IR, and TAP reactor study. <i>Journal of Catalysis</i> , 2005, 230, 52-65.	6.2	193
53	Modeling permeation of binary mixtures through zeolite membranes. <i>AIChE Journal</i> , 1999, 45, 497-511.	3.6	188
54	Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1920-1924.	3.7	188

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55	XPS and Mössbauer Characterization of Au/TiO ₂ Propene Epoxidation Catalysts. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9853-9862.	2.6	187
56	High-temperature stainless steel supported zeolite (MFI) membranes: Preparation, module construction, and permeation experiments. <i>Microporous Materials</i> , 1993, 1, 131-147.	1.6	179
57	Realistic contact for soot with an oxidation catalyst for laboratory studies. <i>Applied Catalysis B: Environmental</i> , 2000, 28, 253-257.	20.2	178
58	Cracking of a rapeseed vegetable oil under realistic FCC conditions. <i>Applied Catalysis B: Environmental</i> , 2007, 72, 44-61.	20.2	175
59	The fate of nitrogen functionalities in coal during pyrolysis and combustion. <i>Fuel</i> , 1995, 74, 507-516.	6.4	172
60	Gasoline conversion: reactivity towards cracking with equilibrated FCC and ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2002, 223, 85-102.	4.3	171
61	The effect of surface OH-population on the photocatalytic activity of rare earth-doped P25-TiO ₂ in methylene blue degradation. <i>Journal of Catalysis</i> , 2008, 260, 75-80.	6.2	169
62	Process intensification and process systems engineering: A friendly symbiosis. <i>Computers and Chemical Engineering</i> , 2008, 32, 3-11.	3.8	168
63	Steam-activated FeMFI zeolites. Evolution of iron species and activity in direct N ₂ O decomposition. <i>Journal of Catalysis</i> , 2003, 214, 33-45.	6.2	167
64	Combustion of coal as a source of N ₂ O emission. <i>Fuel Processing Technology</i> , 1993, 34, 1-71.	7.2	166
65	New non-traditional multiphase catalytic reactors based on monolithic structures. <i>Catalysis Today</i> , 2001, 66, 133-144.	4.4	166
66	TEOM: A Unique Technique for Measuring Adsorption Properties. Light Alkanes in Silicalite-1. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 1934-1942.	3.7	164
67	Adsorption of Linear and Branched Alkanes in the Zeolite Silicalite-1. <i>Journal of the American Chemical Society</i> , 1998, 120, 5599-5600.	13.7	163
68	Zeolitic coatings and their potential use in catalysis. <i>Microporous and Mesoporous Materials</i> , 1998, 21, 213-226.	4.4	162
69	Alkaline Posttreatment of MFI Zeolites. From Accelerated Screening to Scale-up. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4193-4201.	3.7	161
70	Three-phase hydrogenation of β -glucose over a carbon supported ruthenium catalyst—mass transfer and kinetics. <i>Applied Catalysis A: General</i> , 2003, 251, 1-17.	4.3	160
71	Structured Packings for Multiphase Catalytic Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3720-3751.	3.7	160
72	NO-Assisted N ₂ O Decomposition over Fe-Based Catalysts: Effects of Gas-Phase Composition and Catalyst Constitution. <i>Journal of Catalysis</i> , 2002, 208, 211-223.	6.2	156

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73	Monolithic catalysts as efficient three-phase reactors. <i>Chemical Engineering Science</i> , 2001, 56, 823-829.	3.8	155
74	Selective photo(catalytic)-oxidation of cyclohexane: Effect of wavelength and TiO ₂ structure on product yields. <i>Journal of Catalysis</i> , 2006, 238, 342-352.	6.2	153
75	Effect of Operating Conditions and Membrane Quality on the Separation Performance of Composite Silicalite-1 Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 4071-4083.	3.7	152
76	In situ Fourier transform infrared and laser Raman spectroscopic study of the thermal decomposition of Co-Al and Ni-Al hydrotalcites. <i>Vibrational Spectroscopy</i> , 2001, 27, 75-88.	2.2	149
77	Alumina-Supported Manganese Oxide Catalysts. <i>Journal of Catalysis</i> , 1994, 150, 105-116.	6.2	143
78	Active oxygen from CeO ₂ and its role in catalysed soot oxidation. <i>Catalysis Letters</i> , 2005, 99, 203-205.	2.6	140
79	A new surface oxygen complex on carbon: toward a unified mechanism for carbon gasification reactions. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 2835-2840.	3.7	137
80	Soot oxidation catalyzed by a Cu/K/Mo/Cl catalyst: evaluation of the chemistry and performance of the catalyst. <i>Applied Catalysis B: Environmental</i> , 1995, 6, 339-352.	20.2	131
81	Water vapour separation from permanent gases by a zeolite-4A membrane. <i>Journal of Membrane Science</i> , 2005, 253, 57-66.	8.2	130
82	Effect of the support on the structure of Mo-based hydrodesulfurization catalysts: Activated carbon versus alumina*1. <i>Journal of Catalysis</i> , 1987, 105, 277-284.	6.2	128
83	A temperature-programmed reduction study of sulfided Co-Mo/Al ₂ O ₃ hydrodesulfurization catalysts. <i>Journal of Catalysis</i> , 1990, 121, 31-46.	6.2	127
84	Hydrodynamic aspects of the monolith loop reactor. <i>Chemical Engineering Science</i> , 2001, 56, 805-812.	3.8	127
85	Eurokin. <i>Chemical Reaction Kinetics in Practice</i> . Cattech, 2001, 5, 36-60.	2.2	127
86	The role of the active phase of Raney-type Ni catalysts in the selective hydrogenation of D-glucose to D-sorbitol. <i>Applied Catalysis A: General</i> , 2003, 253, 437-452.	4.3	126
87	Mechanism of the potassium catalysed gasification of carbon in CO ₂ . <i>Fuel</i> , 1984, 63, 1043-1047.	6.4	125
88	High surface area silicon carbide as catalyst support characterization and stability. <i>Applied Catalysis A: General</i> , 1998, 167, 321-330.	4.3	125
89	Stability of highly dispersed Ni/Al ₂ O ₃ catalysts: Effects of pretreatment. <i>Journal of Catalysis</i> , 2000, 192, 432-440.	6.2	125
90	Measuring diesel soot with a scanning mobility particle sizer and an electrical low-pressure impactor: performance assessment with a model for fractal-like agglomerates. <i>Journal of Aerosol Science</i> , 2004, 35, 633-655.	3.8	125

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91	A novel photocatalytic monolith reactor for multiphase heterogeneous photocatalysis. <i>Applied Catalysis A: General</i> , 2008, 334, 119-128.	4.3	124
92	Methodological and operational aspects of permeation measurements on silicalite-1 membranes. <i>Journal of Membrane Science</i> , 1998, 144, 87-104.	8.2	121
93	Gas phase pyrolysis of coal-related aromatic compounds in a coiled tube flow reactor. <i>Fuel</i> , 1988, 67, 334-340.	6.4	119
94	Modeling of monolithic and trickle-bed reactors for the hydrogenation of styrene. <i>Chemical Engineering Science</i> , 2003, 58, 1113-1124.	3.8	118
95	Cellulose Conversion to Isosorbide in Molten Salt hydrate Media. <i>ChemSusChem</i> , 2010, 3, 325-328.	6.8	118
96	Comparison of the Performance of Activated Carbon-Supported Noble Metal Catalysts in the Hydrogenolysis of CCl ₂ F ₂ . <i>Journal of Catalysis</i> , 1998, 177, 29-39.	6.2	117
97	Role of Adsorption in the Permeation of CH ₄ and CO ₂ through a Silicalite-1 Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 767-776.	3.7	117
98	How Phase Composition Influences Optoelectronic and Photocatalytic Properties of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 2211-2217.	3.1	117
99	Structuring catalyst and reactor – an inviting avenue to process intensification. <i>Catalysis Science and Technology</i> , 2015, 5, 807-817.	4.1	117
100	Shape Selectivity in Adsorption on the All-Silica DD3R. <i>Langmuir</i> , 2000, 16, 3322-3329.	3.5	116
101	Temperature-programmed reduction of CoO and MoO ₃ /Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1985, 96, 381-395.	6.2	115
102	Process intensification in the future production of base chemicals from biomass. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 51, 117-136.	3.6	115
103	Adsorptive Separation of Light Olefin/Paraffin Mixtures. <i>Chemical Engineering Research and Design</i> , 2006, 84, 350-354.	5.6	113
104	Stability of Oriented Silicalite-1 Films in View of Zeolite Membrane Preparation. <i>Zeolites</i> , 1997, 19, 13-20.	0.5	112
105	A temperature-programmed sulfiding study of NiO and 3/Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1990, 121, 18-30.	6.2	110
106	A high capacity manganese-based sorbent for regenerative high temperature desulfurization with direct sulfur production. <i>Chemical Engineering Journal</i> , 2003, 96, 223-235.	12.7	110
107	Utilizing full-exchange capacity of zeolites by alkaline leaching: Preparation of Fe-ZSM5 and application in N ₂ O decomposition. <i>Journal of Catalysis</i> , 2006, 238, 250-259.	6.2	108
108	DRIFTS study of the water-gas shift reaction over Au/Fe ₂ O ₃ . <i>Journal of Catalysis</i> , 2006, 243, 171-182.	6.2	106

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109	Potential rare-earth modified CeO ₂ catalysts for soot oxidation part II: Characterisation and catalytic activity with NO+O ₂ . Applied Catalysis B: Environmental, 2007, 75, 201-209.	20.2	106
110	Efficient green methanol synthesis from glycerol. Nature Chemistry, 2015, 7, 1028-1032.	13.6	106
111	Ex-framework FeZSM-5 for control of N ₂ O in tail-gases. Catalysis Today, 2002, 76, 55-74.	4.4	104
112	Permeation and separation behaviour of a silicalite-1 membrane. Catalysis Today, 1995, 25, 213-218.	4.4	102
113	Optimization of zeolite Beta by steaming and acid leaching for the acylation of anisole with octanoic acid: a structure-activity relation. Journal of Catalysis, 2003, 218, 239-248.	6.2	101
114	Fischer-Tropsch synthesis using monolithic catalysts. Catalysis Today, 2005, 105, 350-356.	4.4	100
115	Potential rare-earth modified CeO ₂ catalysts for soot oxidation. Applied Catalysis B: Environmental, 2007, 75, 210-220.	20.2	100
116	In Situ ATR-FTIR Study on the Selective Photo-oxidation of Cyclohexane over Anatase TiO ₂ . Journal of Physical Chemistry C, 2008, 112, 1552-1561.	3.1	100
117	Raman spectroscopic investigation of the effect of H ₂ O on the molybdenum surface species in MoO ₃ /Al ₂ O ₃ catalysts*1. Journal of Catalysis, 1984, 90, 314-322.	6.2	99
118	Temperature-Programmed Reduction and HDS Activity of Sulfided Transition Metal Catalysts: Formation of Nonstoichiometric Sulfur. Journal of Catalysis, 1995, 151, 178-191.	6.2	99
119	Dynamic methods for catalytic kinetics. Applied Catalysis A: General, 2008, 342, 3-28.	4.3	99
120	CO ₂ gasification of carbon catalysed by alkali metals. Fuel, 1984, 63, 1036-1042.	6.4	98
121	Catalytic oxidation of model soot by metal chlorides. Applied Catalysis B: Environmental, 1997, 12, 33-47.	20.2	98
122	The formation of carbon surface oxygen complexes by oxygen and ozone. The effect of transition metal oxides. Carbon, 1998, 36, 1269-1276.	10.3	98
123	Understanding and Controlling the Aggregative Growth of Platinum Nanoparticles in Atomic Layer Deposition: An Avenue to Size Selection. Journal of Physical Chemistry Letters, 2017, 8, 975-983.	4.6	98
124	NO Adsorption on Ex-Framework [Fe,X]MFI Catalysts: Novel IR Bands and Evaluation of Assignments. Catalysis Letters, 2002, 80, 129-138.	2.6	97
125	Shouldn't catalysts shape up?. Catalysis Today, 2006, 111, 111-118.	4.4	97
126	On the mechanism of the potassium carbonate catalysed gasification of activated carbon: the influence of the catalyst concentration on the reactivity and selectivity at low steam pressures. Carbon, 1983, 21, 1-12.	10.3	96

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127	Highly active SO ₂ -resistant ex-framework FeMFI catalysts for direct N ₂ O decomposition. Applied Catalysis B: Environmental, 2002, 35, 227-234.	20.2	96
128	Study of Methane Dehydroaromatization on Impregnated Mo/ZSM-5 Catalysts and Characterization of Nanostructured Molybdenum Phases and Carbonaceous Deposits. Industrial & Engineering Chemistry Research, 2007, 46, 4063-4074.	3.7	96
129	Sulfidability and hydrodesulfurization activity of Mo catalysts supported on alumina, silica, and carbon. Journal of Catalysis, 1988, 112, 516-527.	6.2	95
130	Transition Metal Oxide Catalyzed Carbon Black Oxidation: A Study with 18O ₂ . Journal of Catalysis, 1998, 179, 258-266.	6.2	95
131	Molten salts as promising catalysts for oxidation of diesel soot: importance of experimental conditions in testing procedures. Applied Catalysis B: Environmental, 1999, 21, 35-49.	20.2	95
132	Monolithic catalysts with non-uniform active phase distribution by impregnation. Applied Catalysis A: General, 2001, 213, 179-187.	4.3	94
133	Catalytic oxidation of carbon black-I. Activity of catalysts and classification of oxidation profiles. Fuel, 1998, 77, 111-119.	6.4	93
134	An optimal NO _x assisted abatement of diesel soot in an advanced catalytic filter design. Applied Catalysis B: Environmental, 2003, 42, 35-45.	20.2	93
135	Effect of Reaction Conditions on the Direct Synthesis of Hydrogen Peroxide with a AuPd/TiO ₂ Catalyst in a Flow Reactor. ACS Catalysis, 2013, 3, 487-501.	11.2	93
136	Selective oxidation of CO in the presence of H ₂ , H ₂ O and CO ₂ utilising Au/Fe ₂ O ₃ catalysts for use in fuel cells. Journal of Materials Chemistry, 2006, 16, 199-208.	6.7	92
137	NO and N ₂ O decomposition over coal char at fluidized-bed combustion conditions. Combustion and Flame, 1994, 99, 499-507.	5.2	91
138	Modified activated carbons for the selective catalytic reduction of NO with NH ₃ . Carbon, 1993, 31, 213-222.	10.3	90
139	Rank dependence of N ₂ O emission in fluidized-bed combustion of coal. Fuel, 1993, 72, 373-379.	6.4	89
140	Gas-liquid mass transfer of aqueous Taylor flow in monoliths. Catalysis Today, 2001, 69, 51-55.	4.4	89
141	The influence of NO _x on soot oxidation rate: molten salt versus platinum. Applied Catalysis B: Environmental, 2002, 35, 159-166.	20.2	89
142	The role of the support in achieving high selectivity in the direct formation of hydrogen peroxide. Green Chemistry, 2008, 10, 1162.	9.0	89
143	High temperature hydrogen sulfide and carbonyl sulfide removal with manganese oxide (MnO) and iron oxide (FeO) on γ -alumina acceptors. Industrial & Engineering Chemistry Research, 1993, 32, 139-149.	3.7	88
144	Structural promotion and stabilizing effect of Mg in the catalytic decomposition of nitrous oxide over calcined hydrotalcite-like compounds. Applied Catalysis B: Environmental, 1999, 23, 59-72.	20.2	88

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145	Temperature-Programmed Reduction of Oxidic and Sulfidic Alumina-Supported NiO, WO ₃ , and NiO-WO ₃ Catalysts. <i>Journal of Catalysis</i> , 1994, 146, 437-448.	6.2	87
146	The effects of heat and mass transfer in thermogravimetric analysis. A case study towards the catalytic oxidation of soot. <i>Thermochimica Acta</i> , 1996, 287, 261-278.	2.7	87
147	The influence of NO _x on the oxidation of metal activated diesel soot. <i>Catalysis Today</i> , 1999, 53, 623-630.	4.4	87
148	Enabling Electrocatalytic Fischer-Tropsch Synthesis from Carbon Dioxide Over Copper-based Electrodes. <i>Catalysis Letters</i> , 2008, 123, 186-192.	2.6	85
149	Palladium black as model catalyst in the hydrogenolysis of CCl ₂ F ₂ (CFC-12) into CH ₂ F ₂ (HFC-32). <i>Applied Catalysis A: General</i> , 1997, 155, 59-73.	4.3	82
150	Binary permeation through a silicalite-1 membrane. <i>AIChE Journal</i> , 1999, 45, 976-985.	3.6	81
151	Structure/metathesis activity relations of silica supported molybdenum and tungsten oxide. <i>Journal of Molecular Catalysis</i> , 1980, 8, 161-174.	1.2	80
152	On the mechanism of model diesel soot-O ₂ reaction catalysed by Pt-containing La ³⁺ -doped CeO ₂ /Al ₂ O ₃ TAP study with isotopic O ₂ . <i>Catalysis Today</i> , 2007, 121, 237-245.	4.4	80
153	CARBON-BASED MONOLITHIC STRUCTURES. <i>Catalysis Reviews - Science and Engineering</i> , 2001, 43, 291-314.	12.9	79
154	Synthesis of tailored bimodal mesoporous materials with independent control of the dual pore size distribution. <i>Chemical Communications</i> , 2001, , 2670-2671.	4.1	78
155	Structure of phosphorus containing CoO/MoO ₃ /Al ₂ O ₃ catalysts. <i>Applied Catalysis</i> , 1990, 61, 99-122.	0.8	77
156	Mechanism of Laccase-TEMPO-Catalyzed Oxidation of Benzyl Alcohol. <i>ChemCatChem</i> , 2010, 2, 827-833.	3.7	77
157	Gas phase pyrolysis of coal-related aromatic compounds in a coiled tube flow reactor. <i>Fuel</i> , 1988, 67, 327-333.	6.4	76
158	Selective catalytic reduction of NO with NH ₃ over carbon supported copper catalysts. <i>Catalysis Today</i> , 1990, 7, 157-165.	4.4	76
159	Toward a Physically Sound Structure-Activity Relationship of TiO ₂ -Based Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 327-332.	3.1	76
160	BEA coating of structured supports-performance in acylation. <i>Applied Catalysis A: General</i> , 2003, 243, 237-250.	4.3	75
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