

Jacob A Moulijn

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#	Paper	IF	Citations
637	Evolution of nitrogen functionalities in carbonaceous materials during pyrolysis. <i>Carbon</i> , 1995 , 33, 1641-1653	16.5	1631
636	Science and technology of novel processes for deep desulfurization of oil refinery streams: a review?. <i>Fuel</i> , 2003 , 82, 607-631	7.1	1309
635	Heterogeneous catalytic decomposition of nitrous oxide. <i>Applied Catalysis B: Environmental</i> , 1996 , 9, 25-64	21.8	742
634	Catalyst deactivation: is it predictable?. <i>Applied Catalysis A: General</i> , 2001 , 212, 3-16	5.1	586
633	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	21.8	548
632	Direct demonstration of enhanced diffusion in mesoporous ZSM-5 zeolite obtained via controlled desilication. <i>Journal of the American Chemical Society</i> , 2007 , 129, 355-60	16.4	532
631	Temperature-programmed reduction of CoO/Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1985 , 93, 38-54	7.3	531
630	Desilication: on the controlled generation of mesoporosity in MFI zeolites. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2121-2131		472
629	Multiphase monolith reactors: Chemical reaction engineering of segmented flow in microchannels. <i>Chemical Engineering Science</i> , 2005 , 60, 5895-5916	4.4	472
628	Science and technology of catalytic diesel particulate filters. <i>Catalysis Reviews - Science and Engineering</i> , 2001 , 43, 489-564	12.6	443
627	Preparation of monolithic catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2001 , 43, 345-380	12.6	425
626	Formation and control of N ₂ O in nitric acid production. <i>Applied Catalysis B: Environmental</i> , 2003 , 44, 117-158	15.8	424
625	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, 4983-94	4.8	415
624	Creation of hollow zeolite architectures by controlled desilication of Al-zoned ZSM-5 crystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10792-3	16.4	414
623	Optimal Aluminum-Assisted Mesoporosity Development in MFI Zeolites by Desilication. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13062-13065	3.4	411
622	The Production of Propene Oxide: Catalytic Processes and Recent Developments. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 3447-3459	3.9	388
621	Monoliths in Heterogeneous Catalysis. <i>Catalysis Reviews - Science and Engineering</i> , 1994 , 36, 179-270	12.6	362

620	Alumina-Supported Manganese Oxide Catalysts. <i>Journal of Catalysis</i> , 1994 , 150, 94-104	7.3	358
619	Enhanced soot oxidation by lattice oxygen via La ³⁺ -doped CeO ₂ . <i>Journal of Catalysis</i> , 2005 , 230, 237-248	7.3	346
618	A review of intensification of photocatalytic processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007 , 46, 781-789	3.7	332
617	The development of nitrogen functionality in model chars during gasification in CO ₂ and O ₂ . <i>Carbon</i> , 1999 , 37, 1143-1150	10.4	323
616	Catalysts for the oxidation of soot from diesel exhaust gases. I. An exploratory study. <i>Applied Catalysis B: Environmental</i> , 1996 , 8, 57-78	21.8	317
615	On the introduction of intracrystalline mesoporosity in zeolites upon desilication in alkaline medium. <i>Microporous and Mesoporous Materials</i> , 2004 , 69, 29-34	5.3	290
614	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	7.3	289
613	Diesel particulate emission control. <i>Fuel Processing Technology</i> , 1996 , 47, 1-69	7.2	289
612	Potential rare earth modified CeO ₂ catalysts for soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2007 , 75, 189-200	21.8	271
611	Inertial and interfacial effects on pressure drop of Taylor flow in capillaries. <i>AIChE Journal</i> , 2005 , 51, 2428-2440	3.6	271
610	Permeation characteristics of a metal-supported silicalite-1 zeolite membrane. <i>Journal of Membrane Science</i> , 1996 , 117, 57-78	9.6	261
609	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	21.8	251
608	Temperature-programmed reduction of NiO/WO ₃ /Al ₂ O ₃ Hydrodesulphurization catalysts. <i>Applied Catalysis</i> , 1989 , 46, 11-30		247
607	Temperature dependence of one-component permeation through a silicalite-1 membrane. <i>AIChE Journal</i> , 1997 , 43, 2203-2214	3.6	236
606	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	3.9	232
605	Catalytic pyrolysis of microalgae to high-quality liquid bio-fuels. <i>Biomass and Bioenergy</i> , 2011 , 35, 3199-3207	3.9	224
604	Kinetics of the oxidation of diesel soot. <i>Fuel</i> , 1997 , 76, 1129-1136	7.1	220
603	Mass transfer characteristics of three-phase monolith reactors. <i>Chemical Engineering Science</i> , 2001 , 56, 6015-6023	4.4	207

602	Separation and permeation characteristics of a DD3R zeolite membrane. <i>Journal of Membrane Science</i> , 2008 , 316, 35-45	9.6	203
601	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	21.8	202
600	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	7.3	200
599	Fermentation of Glucose to Lactic Acid Coupled with Reactive Extraction: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 5969-5982	3.9	198
598	The generalized Maxwell-Stefan model for diffusion in zeolites: sorbate molecules with different saturation loadings. <i>Chemical Engineering Science</i> , 2000 , 55, 2923-2930	4.4	195
597	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	21.8	193
596	Alkaline-mediated mesoporous mordenite zeolites for acid-catalyzed conversions?. <i>Journal of Catalysis</i> , 2007 , 251, 21-27	7.3	192
595	CeO ₂ catalysed soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2004 , 51, 9-19	21.8	192
594	Kinetic Analysis of the Decomposition of Nitrous Oxide over ZSM-5 Catalysts. <i>Journal of Catalysis</i> , 1997 , 167, 256-265	7.3	190
593	Decoupling mesoporosity formation and acidity modification in ZSM-5 zeolites by sequential desilication dealumination. <i>Microporous and Mesoporous Materials</i> , 2005 , 87, 153-161	5.3	190
592	Towards a unified theory of reactions of carbon with oxygen-containing molecules. <i>Carbon</i> , 1995 , 33, 1155-1165	10.4	187
591	In situ investigation of the thermal decomposition of CoAl hydrotalcite in different atmospheres. <i>Journal of Materials Chemistry</i> , 2001 , 11, 821-830		181
590	Temperature-programmed sulfiding of MoO ₃ /Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1985 , 92, 35-55	7.3	181
589	Modeling permeation of binary mixtures through zeolite membranes. <i>AIChE Journal</i> , 1999 , 45, 497-511	3.6	172
588	The mechanism of low-temperature CO oxidation with Au/Fe ₂ O ₃ catalysts: a combined Mössbauer, FT-IR, and TAP reactor study. <i>Journal of Catalysis</i> , 2005 , 230, 52-65	7.3	167
587	XPS and Mössbauer Characterization of Au/TiO ₂ Propene Epoxidation Catalysts. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9853-9862	3.4	166
586	High-temperature stainless steel supported zeolite (MFI) membranes: Preparation, module construction, and permeation experiments. <i>Microporous Materials</i> , 1993 , 1, 131-147		166
585	Realistic contact for soot with an oxidation catalyst for laboratory studies. <i>Applied Catalysis B: Environmental</i> , 2000 , 28, 253-257	21.8	161

584	The six-flow reactor technology A review on fast catalyst screening and kinetic studies. <i>Catalysis Today</i> , 2000 , 60, 93-109	5.3	159
583	Combustion of coal as a source of N ₂ O emission. <i>Fuel Processing Technology</i> , 1993 , 34, 1-71	7.2	157
582	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	7.3	156
581	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	7.3	155
580	The fate of nitrogen functionalities in coal during pyrolysis and combustion. <i>Fuel</i> , 1995 , 74, 507-516	7.1	152
579	Gasoline conversion: reactivity towards cracking with equilibrated FCC and ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2002 , 223, 85-102	5.1	151
578	Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 1920-1924	3.9	151
577	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. <i>Journal of Catalysis</i> , 2002 , 207, 113-126	7.3	148
576	New non-traditional multiphase catalytic reactors based on monolithic structures. <i>Catalysis Today</i> , 2001 , 66, 133-144	5.3	147
575	TEOM: A Unique Technique for Measuring Adsorption Properties. Light Alkanes in Silicalite-1. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 1934-1942	3.9	146
574	Process intensification and process systems engineering: A friendly symbiosis. <i>Computers and Chemical Engineering</i> , 2008 , 32, 3-11	4	146
573	Alkaline Posttreatment of MFI Zeolites. From Accelerated Screening to Scale-up. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 4193-4201	3.9	146
572	Structured Packings for Multiphase Catalytic Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3720-3751	3.9	145
571	Adsorption of Linear and Branched Alkanes in the Zeolite Silicalite-1. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5599-5600	16.4	145
570	Cracking of a rapeseed vegetable oil under realistic FCC conditions. <i>Applied Catalysis B: Environmental</i> , 2007 , 72, 44-61	21.8	142
569	Zeolitic coatings and their potential use in catalysis. <i>Microporous and Mesoporous Materials</i> , 1998 , 21, 213-226	5.3	141
568	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	7.3	140
567	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	7.3	138

566	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	5.1	136
565	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	3.9	132
564	Monolithic catalysts as efficient three-phase reactors. <i>Chemical Engineering Science</i> , 2001 , 56, 823-829	4.4	130
563	In situ Fourier transform infrared and laser Raman spectroscopic study of the thermal decomposition of CoAl and NiAl hydrotalcites. <i>Vibrational Spectroscopy</i> , 2001 , 27, 75-88	2.1	128
562	Alumina-Supported Manganese Oxide Catalysts. <i>Journal of Catalysis</i> , 1994 , 150, 105-116	7.3	128
561	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	3.9	124
560	Active oxygen from CeO ₂ and its role in catalysed soot oxidation. <i>Catalysis Letters</i> , 2005 , 99, 203-205	2.8	123
559	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	7.3	121
558	Water vapour separation from permanent gases by a zeolite-4A membrane. <i>Journal of Membrane Science</i> , 2005 , 253, 57-66	9.6	119
557	High surface area silicon carbide as catalyst support characterization and stability. <i>Applied Catalysis A: General</i> , 1998 , 167, 321-330	5.1	118
556	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	21.8	117
555	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	4.3	113
554	A novel photocatalytic monolith reactor for multiphase heterogeneous photocatalysis. <i>Applied Catalysis A: General</i> , 2008 , 334, 119-128	5.1	112
553	Methodological and operational aspects of permeation measurements on silicalite-1 membranes. <i>Journal of Membrane Science</i> , 1998 , 144, 87-104	9.6	110
552	Stability of highly dispersed Ni/AlO catalysts: Effects of pretreatment. <i>Journal of Catalysis</i> , 2000 , 192, 432-440	7.3	110
551	Gas phase pyrolysis of coal-related aromatic compounds in a coiled tube flow reactor. <i>Fuel</i> , 1988 , 67, 334-340	7.1	110
550	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	7.3	108
549	Mechanism of the potassium catalysed gasification of carbon in CO ₂ . <i>Fuel</i> , 1984 , 63, 1043-1047	7.1	108

548	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	3.9	107
547	Modeling of monolithic and trickle-bed reactors for the hydrogenation of styrene. <i>Chemical Engineering Science</i> , 2003 , 58, 1113-1124	4.4	107
546	Shape Selectivity in Adsorption on the All-Silica DD3R. <i>Langmuir</i> , 2000 , 16, 3322-3329	4	107
545	Process intensification in the future production of base chemicals from biomass. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012 , 51, 117-136	3.7	104
544	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	5.1	104
543	Eurokin. Chemical Reaction Kinetics in Practice. <i>Cattech</i> , 2001 , 5, 36-60		103
542	Stability of Oriented Silicalite-1 Films in View of Zeolite Membrane Preparation. <i>Zeolites</i> , 1997 , 19, 13-20		100
541	Adsorptive Separation of Light Olefin/Paraffin Mixtures. <i>Chemical Engineering Research and Design</i> , 2006 , 84, 350-354	5.5	100
540	How Phase Composition Influences Optoelectronic and Photocatalytic Properties of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2211-2217	3.8	99
539	Cellulose conversion to isosorbide in molten salt hydrate media. <i>ChemSusChem</i> , 2010 , 3, 325-8	8.3	98
538	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	7.3	97
537	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	7.3	97
536	DRIFTS study of the water-gas shift reaction over Au/Fe ₂ O ₃ . <i>Journal of Catalysis</i> , 2006 , 243, 171-182	7.3	97
535	A temperature-programmed reduction study of sulfided Co ₂ S ₃ /Mo/Al ₂ O ₃ hydrodesulfurization catalysts. <i>Journal of Catalysis</i> , 1990 , 121, 31-46	7.3	97
534	A temperature-programmed sulfiding study of NiO ₂ /3Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1990 , 121, 18-30	7.3	96
533	A high capacity manganese-based sorbent for regenerative high temperature desulfurization with direct sulfur production: Conceptual process application to coal gas cleaning. <i>Chemical Engineering Journal</i> , 2003 , 96, 223-235	14.7	95
532	Fischer-Tropsch synthesis using monolithic catalysts. <i>Catalysis Today</i> , 2005 , 105, 350-356	5.3	95
531	Structuring catalyst and reactor – an inviting avenue to process intensification. <i>Catalysis Science and Technology</i> , 2015 , 5, 807-817	5.5	94

530	Temperature-programmed reduction of CoO \cdot MoO ₃ /Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 1985 , 96, 381-395	7.3	93
529	The formation of carbon surface oxygen complexes by oxygen and ozone. The effect of transition metal oxides. <i>Carbon</i> , 1998 , 36, 1269-1276	10.4	92
528	Potential rare-earth modified CeO ₂ catalysts for soot oxidation part II: Characterisation and catalytic activity with NO+O ₂ . <i>Applied Catalysis B: Environmental</i> , 2007 , 75, 201-209	21.8	92
527	Potential rare-earth modified CeO ₂ catalysts for soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2007 , 75, 210-220	21.8	91
526	Permeation and separation behaviour of a silicalite-1 membrane. <i>Catalysis Today</i> , 1995 , 25, 213-218	5.3	91
525	Molten salts as promising catalysts for oxidation of diesel soot: importance of experimental conditions in testing procedures. <i>Applied Catalysis B: Environmental</i> , 1999 , 21, 35-49	21.8	90
524	Catalytic oxidation of model soot by metal chlorides. <i>Applied Catalysis B: Environmental</i> , 1997 , 12, 33-47	21.8	89
523	Shouldn't catalysts shape up?. <i>Catalysis Today</i> , 2006 , 111, 111-118	5.3	89
522	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. <i>Carbon</i> , 1983 , 21, 1-12	10.4	88
521	Study of Methane Dehydroaromatization on Impregnated Mo/ZSM-5 Catalysts and Characterization of Nanostructured Molybdenum Phases and Carbonaceous Deposits. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 4063-4074	3.9	86
520	Dynamic methods for catalytic kinetics. <i>Applied Catalysis A: General</i> , 2008 , 342, 3-28	5.1	86
519	CO ₂ gasification of carbon catalysed by alkali metals. <i>Fuel</i> , 1984 , 63, 1036-1042	7.1	86
518	An optimal NO _x assisted abatement of diesel soot in an advanced catalytic filter design. <i>Applied Catalysis B: Environmental</i> , 2003 , 42, 35-45	21.8	85
517	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. <i>Journal of Materials Chemistry</i> , 2006 , 16, 199-208		84
516	Optimization of zeolite Beta by steaming and acid leaching for the acylation of anisole with octanoic acid: a structure-activity relation. <i>Journal of Catalysis</i> , 2003 , 218, 239-248	7.3	84
515	Gas-liquid mass transfer of aqueous Taylor flow in monoliths. <i>Catalysis Today</i> , 2001 , 69, 51-55	5.3	84
514	Transition Metal Oxide Catalyzed Carbon Black Oxidation: A Study with 18O ₂ . <i>Journal of Catalysis</i> , 1998 , 179, 258-266	7.3	83
513	The influence of NO _x on soot oxidation rate: molten salt versus platinum. <i>Applied Catalysis B: Environmental</i> , 2002 , 35, 159-166	21.8	83

512	Ex-framework FeZSM-5 for control of N ₂ O in tail-gases. <i>Catalysis Today</i> , 2002 , 76, 55-74	5.3	83
511	In Situ ATR-FTIR Study on the Selective Photo-oxidation of Cyclohexane over Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1552-1561	3.8	82
510	Monolithic catalysts [non-uniform active phase distribution by impregnation. <i>Applied Catalysis A: General</i> , 2001 , 213, 179-187	5.1	82
509	Temperature-Programmed Reduction and HDS Activity of Sulfided Transition Metal Catalysts: Formation of Nonstoichiometric Sulfur. <i>Journal of Catalysis</i> , 1995 , 151, 178-191	7.3	82
508	NO and N ₂ O decomposition over coal char at fluidized-bed combustion conditions. <i>Combustion and Flame</i> , 1994 , 99, 499-507	5.3	82
507	Catalytic oxidation of carbon black-I. Activity of catalysts and classification of oxidation profiles. <i>Fuel</i> , 1998 , 77, 111-119	7.1	81
506	Highly active SO ₂ -resistant ex-framework FeMFI catalysts for direct N ₂ O decomposition. <i>Applied Catalysis B: Environmental</i> , 2002 , 35, 227-234	21.8	81
505	Modified activated carbons for the selective catalytic reduction of NO with NH ₃ . <i>Carbon</i> , 1993 , 31, 213-224	22.4	81
504	High temperature hydrogen sulfide and carbonyl sulfide removal with manganese oxide (MnO) and iron oxide (FeO) on gamma-alumina acceptors. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 139-149	3.9	80
503	Sulfidability and hydrodesulfurization activity of Mo catalysts supported on alumina, silica, and carbon. <i>Journal of Catalysis</i> , 1988 , 112, 516-527	7.3	80
502	The role of the support in achieving high selectivity in the direct formation of hydrogen peroxide. <i>Green Chemistry</i> , 2008 , 10, 1162	10	78
501	The influence of NO _x on the oxidation of metal activated diesel soot. <i>Catalysis Today</i> , 1999 , 53, 623-630	5.3	78
500	Efficient green methanol synthesis from glycerol. <i>Nature Chemistry</i> , 2015 , 7, 1028-32	17.6	77
499	Effect of Reaction Conditions on the Direct Synthesis of Hydrogen Peroxide with a AuPd/TiO ₂ Catalyst in a Flow Reactor. <i>ACS Catalysis</i> , 2013 , 3, 487-501	13.1	77
498	Synthesis of tailored bimodal mesoporous materials with independent control of the dual pore size distribution. <i>Chemical Communications</i> , 2001 , 2670-2671	5.8	77
497	Structural promotion and stabilizing effect of Mg in the catalytic decomposition of nitrous oxide over calcined hydrotalcite-like compounds. <i>Applied Catalysis B: Environmental</i> , 1999 , 23, 59-72	21.8	77
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495	Binary permeation through a silicalite-1 membrane. <i>AIChE Journal</i> , 1999 , 45, 976-985	3.6	76

494	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	7.3	76
493	Rank dependence of N ₂ O emission in fluidized-bed combustion of coal. <i>Fuel</i> , 1993 , 72, 373-379	7.1	76
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491	Structure/metathesis activity relations of silica supported molybdenum and tungsten oxide. <i>Journal of Molecular Catalysis</i> , 1980 , 8, 161-174		75
490	Hydrodynamic aspects of the monolith loop reactor. <i>Chemical Engineering Science</i> , 2001 , 56, 805-812	4.4	74
489	NO Adsorption on Ex-Framework [Fe,X]MFI Catalysts: Novel IR Bands and Evaluation of Assignments. <i>Catalysis Letters</i> , 2002 , 80, 129-138	2.8	73
488	Raman spectroscopic investigation of the effect of H ₂ O on the molybdenum surface species in MoO ₃ /Al ₂ O ₃ catalysts*1. <i>Journal of Catalysis</i> , 1984 , 90, 314-322	7.3	72
487	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	2.9	71
486	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	5.1	70
485	Permeation of weakly adsorbing components through a silicalite-1 membrane. <i>Chemical Engineering Science</i> , 1999 , 54, 1081-1092	4.4	70
484	Toward a Physically Sound Structure-Activity Relationship of TiO ₂ -Based Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 327-332	3.8	69
483	Selective catalytic reduction of NO with NH ₃ over carbon supported copper catalysts.. <i>Catalysis Today</i> , 1990 , 7, 157-165	5.3	69
482	Temperature- and occupancy-dependent diffusion of n-butane through a silicalite-1 membrane. <i>Microporous Materials</i> , 1994 , 3, 227-234		68
481	BEA coating of structured supports-performance in acylation. <i>Applied Catalysis A: General</i> , 2003 , 243, 237-250	5.1	67
480	Equilibrium adsorption of linear and branched C ₆ alkanes on silicalite-1 studied by the tapered element oscillating microbalance. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 1755-1761	3.6	67
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