Jacob A Moulijn

List of Publications by Year
in descending order

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619 papers	47,171 citations	1606 105 h-index	3173 186 g-index
657 all docs	657 docs citations	657 times ranked	25750 citing authors

#	Article	IF	Citations
1	Structured catalysts and reactors â€“ Perspectives for demanding applications. Catalysis Today, 2022, 383, 5-14.	2.2	60
2	Corrigendum to â€œOn the drug adsorption capacity of SBA-15 obtained from various detemplation protocolsâ€•[Mater. Lett. 131 (2014) 186â€“189]. Materials Letters, 2022, 309, 131425.	1.3	0
3	The direct synthesis of hydrogen peroxide using a combination of a hydrophobic solvent and water. Catalysis Science and Technology, 2020, 10, 8203-8212.	2.1	6
4	Reactant Additive-Triggered Deactivation of Pd/Î³-Alumina-Catalyzed Hydrogenation Reactions. A Reactivity and Adsorption Study. Industrial & Engineering Chemistry Research, 2020, 59, 17762-17768.	1.8	2
5	Tailoring the multiphase flow pattern of gas and liquid through micro-packed bed of pillars. Reaction Chemistry and Engineering, 2019, 4, 838-851.	1.9	7
6	Nanoparticle sintering in atomic layer deposition of supported catalysts: Kinetic modeling of the size distribution. Catalysis Today, 2018, 316, 51-61.	2.2	44
7	Overcoming the Engineering Constraints for Scaling-Up the State-of-the-Art Catalyst for Tail-Gas N₂O Decomposition. Industrial & Engineering Chemistry Research, 2018, 57, 939-945.	1.8	8
8	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.	2.1	98
9	Production of Monosugars from Lignocellulosic Biomass in Molten Salt Hydrates: Process Design and Techno-Economic Analysis. Industrial & Engineering Chemistry Research, 2017, 56, 13423-13433.	1.8	25
10	Performance Testing of Hydrodesulfurization Catalysts Using a Singleâ€Pelletâ€String Reactor. Chemical Engineering and Technology, 2017, 40, 2025-2034.	0.9	10
11	Low-temperature atomic layer deposition delivers more active and stable Pt-based catalysts. Nanoscale, 2017, 9, 10802-10810.	2.8	19
12	Tail gas catalyzed N2O decomposition over Fe-beta zeolite. On the promoting role of framework connected AlO6 sites in the vicinity of Fe by controlled dealumination during exchange. Applied Catalysis B: Environmental, 2017, 203, 218-226.	10.8	21
13	Process Intensification â˜†. , 2017, , 509-518.		8
14	Reactive Separations. , 2017, , 565-572.		1
15	Gas phase stabiliser-free production of hydrogen peroxide using supported goldâ€“palladium catalysts. Chemical Science, 2016, 7, 5833-5837.	3.7	16
16	Designing new catalysts: synthesis of new active structures: general discussion. Faraday Discussions, 2016, 188, 131-159.	1.6	4
17	Bridging model and real catalysts: general discussion. Faraday Discussions, 2016, 188, 565-589.	1.6	3
18	Catalyst testing in multiphase micro-packed-bed reactors; criterion for radial mass transport. Catalysis Today, 2016, 259, 354-359.	2.2	34

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19	Low temperature catalytic partial oxidation of ethane to oxygenates by Feâ€“ and Cuâ€“ZSM-5 in a continuous flow reactor. Journal of Catalysis, 2015, 330, 84-92.	3.1	24
20	Efficient green methanol synthesis from glycerol. Nature Chemistry, 2015, 7, 1028-1032.	6.6	106
21	Structuring catalyst and reactor â€“ an inviting avenue to process intensification. Catalysis Science and Technology, 2015, 5, 807-817.	2.1	117
22	Inhibition of a Gold-Based Catalyst in Benzyl Alcohol Oxidation: Understanding and Remediation. Catalysts, 2014, 4, 89-115.	1.6	40
23	Sorbitol dehydration in a ZnCl₂molten salt hydrate medium: molecular modeling. Catalysis Science and Technology, 2014, 4, 152-163.	2.1	16
24	On the drug adsorption capacity of SBA-15 obtained from various detemplation protocols. Materials Letters, 2014, 131, 186-189.	1.3	10
25	Monolithic reactors in catalysis: excellent control. Current Opinion in Chemical Engineering, 2013, 2, 346-353.	3.8	35
26	Simultaneous hydrolysis and hydrogenation of cellobiose to sorbitol in molten salt hydrate media. Catalysis Science and Technology, 2013, 3, 1565.	2.1	31
27	Sorbitol dehydration into isosorbide in a molten salt hydrate medium. Catalysis Science and Technology, 2013, 3, 1540.	2.1	64
28	Effect of Reaction Conditions on the Direct Synthesis of Hydrogen Peroxide with a AuPd/TiO₂ Catalyst in a Flow Reactor. ACS Catalysis, 2013, 3, 487-501.	5.5	93
29	Catalyst Performance Testing in Multiphase Systems: Implications of Using Small Catalyst Particles in Hydrodesulfurization. Industrial & Engineering Chemistry Research, 2013, 52, 9069-9085.	1.8	36
30	Influence of reaction conditions on the direct synthesis of hydrogen peroxide over AuPd/carbon catalysts. Catalysis Science and Technology, 2012, 2, 1908.	2.1	23
31	Heat transport in structured packings with two-phase co-current downflow. Chemical Engineering Journal, 2012, 185-186, 250-266.	6.6	27
32	Functioning devices for solar to fuel conversion. Chemical Engineering and Processing: Process Intensification, 2012, 51, 137-149.	1.8	21
33	Process intensification in the future production of base chemicals from biomass. Chemical Engineering and Processing: Process Intensification, 2012, 51, 117-136.	1.8	115
34	How Phase Composition Influences Optoelectronic and Photocatalytic Properties of TiO₂. Journal of Physical Chemistry C, 2011, 115, 2211-2217.	1.5	117
35	Photo-catalytic oxidation of cyclohexane over TiO₂: a novel interpretation of temperature dependent performance. Physical Chemistry Chemical Physics, 2011, 13, 1345-1355.	1.3	17
36	The Potential of Biomass in the Production of Clean Transportation Fuels and Base Chemicals. ACS Symposium Series, 2011, , 65-77.	0.5	4

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37	Monolithic Catalysts and Reactors. Advances in Catalysis, 2011, 54, 249-327.	0.1	46
38	Photocatalytic Oxidation of Cyclohexane over TiO₂: Evidence for a Marsâˆ'van Krevelen Mechanism. Journal of Physical Chemistry C, 2011, 115, 1330-1338.	1.5	54
39	Combined ATR-FTIR and DFT Study of Cyclohexanone Adsorption on Hydrated TiO₂ Anatase Surfaces. Journal of Physical Chemistry C, 2011, 115, 14164-14172.	1.5	23
40	The effect of water on the performance of TiO2 in photocatalytic selective alkane oxidation. Journal of Catalysis, 2011, 277, 129-133.	3.1	28
41	Heterogeneously Catalyzed Continuousâ€Flow Hydrogenation Using Segmented Flow in Capillary Columns. ChemCatChem, 2011, 3, 1155-1157.	1.8	47
42	Stability of metal nanoparticles formed during reduction of alumina supported nickel and cobalt catalysts. Catalysis Today, 2011, 163, 20-26.	2.2	29
43	Shape selective methanol to olefins over highly thermostable DDR catalysts. Applied Catalysis A: General, 2011, 391, 234-243.	2.2	54
44	Catalytic pyrolysis of microalgae to high-quality liquid bio-fuels. Biomass and Bioenergy, 2011, 35, 3199-3207.	2.9	263
45	On-site low-pressure diesel HDS for fuel cell applications: Deepening the sulfur content to â©½1ppm. Fuel, 2011, 90, 3021-3027.	3.4	11
46	The effect of Au on TiO2 catalyzed selective photocatalytic oxidation of cyclohexane. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 326-332.	2.0	32
47	Preparation of Supported Metal Catalysts. Catalytic Science Series, 2011, , 1-40.	0.6	0
48	Mechanism of Laccaseâ€"TEMPOâ€Catalyzed Oxidation of Benzyl Alcohol. ChemCatChem, 2010, 2, 827-833.	1.8	77
49	Volatile tracer dispersion in multi-phase packed beds. Chemical Engineering Science, 2010, 65, 3972-3985.	1.9	8
50	Improved performance of TiO2 in the selective photo-catalytic oxidation of cyclohexane by increasing the rate of desorption through surface silylation. Journal of Catalysis, 2010, 273, 116-124.	3.1	38
51	Photocatalytic oxidation of cyclohexane by titanium dioxide: Catalyst deactivation and regeneration. Journal of Catalysis, 2010, 273, 199-210.	3.1	54
52	Catalyst performance changes induced by palladium phase transformation in the hydrogenation of benzonitrile. Journal of Catalysis, 2010, 274, 176-191.	3.1	55
53	Cellulose Conversion to Isosorbide in Molten Salt hydrate Media. ChemSusChem, 2010, 3, 325-328.	3.6	118
54	Model-based, thermo-physical optimisation for high olefin yield in steam cracking reactors. Chemical Engineering Research and Design, 2010, 88, 1305-1319.	2.7	18

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55	Heat transport in structured packings with co-current downflow of gas and liquid. Chemical Engineering Science, 2010, 65, 420-426.	1.9	26
56	Toward a Physically Sound Structureâˆ'Activity Relationship of TiO₂-Based Photocatalysts. Journal of Physical Chemistry C, 2010, 114, 327-332.	1.5	76
57	Transient Behavior and Stability in Miniaturized Multiphase Packed Bed Reactors. Industrial & Engineering Chemistry Research, 2010, 49, 1033-1040.	1.8	40
58	Cyclohexane selective photocatalytic oxidation by anatase TiO2: influence of particle size and crystallinity. Physical Chemistry Chemical Physics, 2010, 12, 2744.	1.3	46
59	The effect of catalyst preparation method on the performance of supported Auâ€"Pd catalysts for the direct synthesis of hydrogen peroxide. Green Chemistry, 2010, 12, 915.	4.6	63
60	Effect of the reaction conditions on the performance of Auâ€"Pd/TiO2 catalyst for the direct synthesis of hydrogen peroxide. Physical Chemistry Chemical Physics, 2010, 12, 2488.	1.3	58
61	FAPO and Fe-TUD-1: Promising catalysts for N2O mediated selective oxidation of propane?. Journal of Catalysis, 2009, 262, 1-8.	3.1	22
62	Effect of Halide and Acid Additives on the Direct Synthesis of Hydrogen Peroxide using Supported Goldâ€"Palladium Catalysts. ChemSusChem, 2009, 2, 575-580.	3.6	68
63	How Gold Deposition Affects Anatase Performance in the Photo-catalytic Oxidation of Cyclohexane. Catalysis Letters, 2009, 129, 12-19.	1.4	64
64	Relation between sulfur coordination of active sites and HDS activity for Mo and NiMo catalysts. Journal of Molecular Catalysis A, 2009, 309, 79-88.	4.8	33
65	Identification of the role of surface acidity in the deactivation of TiO2 in the selective photo-oxidation of cyclohexane. Catalysis Today, 2009, 143, 326-333.	2.2	32
66	Deep desulphurization of diesel fuels on bifunctional monolithic nanostructured Pt-zeolite catalysts. Catalysis Today, 2009, 144, 235-250.	2.2	39
67	Experimental and numerical comparison of structured packings with a randomly packed bed reactor for Fischerâ€"Tropsch synthesis. Catalysis Today, 2009, 147, S2-S9.	2.2	52
68	An internally illuminated monolith reactor: Pros and cons relative to a slurry reactor. Catalysis Today, 2009, 147, S324-S329.	2.2	31
69	Hydrogenation of dinitriles on Raney-type Ni catalysts: kinetic and mechanistic aspects. Applied Catalysis A: General, 2009, 352, 193-201.	2.2	23
70	Avoiding segregation during the loading of a catalystâ€"inert powder mixture in a packed micro-bed. Applied Catalysis A: General, 2009, 365, 110-121.	2.2	29
71	Catalyst testing in a multiple-parallel, gasâ€"liquid, powder-packed bed microreactor. Applied Catalysis A: General, 2009, 365, 199-206.	2.2	40
72	Kinetic and deactivation modelling of biphenyl liquid-phase hydrogenation over bimetallic Ptâ€"Pd catalyst. Applied Catalysis B: Environmental, 2009, 88, 213-223.	10.8	27

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73	Palladium and platinum catalysts supported on carbon nanofiber coated monoliths for low-temperature combustion of BTX. Applied Catalysis B: Environmental, 2009, 89, 411-419.	10.8	66
74	Zeolite BEA catalysed esterification of hexanoic acid with 1-octanol: Kinetics, side reactions and the role of water. Applied Catalysis A: General, 2009, 358, 141-145.	2.2	25
75	The Effect of Bromide Pretreatment on the Performance of Supported Auâ€"Pd Catalysts for the Direct Synthesis of Hydrogen Peroxide. ChemCatChem, 2009, 1, 479-484.	1.8	34
76	Chemical Design of Carbon Coating on the Alumina Support. , 2009, , 119-130.		0
77	Enabling Electrocatalytic Fischerâ€"Tropsch Synthesis from Carbon Dioxide Over Copper-based Electrodes. Catalysis Letters, 2008, 123, 186-192.	1.4	85
78	Hydrogel coated monoliths for enzymatic hydrolysis of penicillin G. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 815-824.	1.4	9
79	Propylene/propane mixture adsorption on faujasite sorbents. Adsorption, 2008, 14, 309-321.	1.4	62
80	Deep Desulfurization of Fossil Fuels by Air in the Absence of a Catalyst. ChemSusChem, 2008, 1, 817-819.	3.6	15
81	Separation and permeation characteristics of a DD3R zeolite membrane. Journal of Membrane Science, 2008, 316, 35-45.	4.1	244
82	Effect of steaming of iron containing AlPO-5 on the structure and activity in N2O decomposition. Microporous and Mesoporous Materials, 2008, 112, 193-201.	2.2	26
83	Dynamic methods for catalytic kinetics. Applied Catalysis A: General, 2008, 342, 3-28.	2.2	99
84	Process intensification and process systems engineering: A friendly symbiosis. Computers and Chemical Engineering, 2008, 32, 3-11.	2.0	168
85	Recent advances in catalysisâ€"selected papers from APCAT 4 (Singapore, 6â€"8 December 2006). Catalysis Today, 2008, 131, 1.	2.2	5
86	Towards synthesis of an optimal thermal cracking reactor. Chemical Engineering Research and Design, 2008, 86, 703-712.	2.7	6
87	A novel photocatalytic monolith reactor for multiphase heterogeneous photocatalysis. Applied Catalysis A: General, 2008, 334, 119-128.	2.2	124
88	Carbon-based monolithic supports for palladium catalysts: The role of the porosity in the gas-phase total combustion of m-xylene. Applied Catalysis B: Environmental, 2008, 77, 272-277.	10.8	35
89	Influence of Si/Al ratio on hexane isomers adsorption equilibria. Microporous and Mesoporous Materials, 2008, 111, 171-177.	2.2	17
90	Separation of CO2 and CH4 by a DDR membrane. Research on Chemical Intermediates, 2008, 34, 467-474.	1.3	51

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91	Tuning the support adsorption properties of Pd/SiO2 by silylation to improve the selective hydrogenation of aromatic ketones. Journal of Catalysis, 2008, 257, 55-63.	3.1	27
92	The effect of surface OH-population on the photocatalytic activity of rare earth-doped P25-TiO2 in methylene blue degradation. Journal of Catalysis, 2008, 260, 75-80.	3.1	169
93	Polyethyleneimine (PEI) functionalized ceramic monoliths as enzyme carriers: Preparation and performance. Journal of Molecular Catalysis B: Enzymatic, 2008, 50, 20-27.	1.8	47
94	The role of the support in achieving high selectivity in the direct formation of hydrogen peroxide. Green Chemistry, 2008, 10, 1162.	4.6	89
95	Structured Packings for Multiphase Catalytic Reactors. Industrial & Engineering Chemistry Research, 2008, 47, 3720-3751.	1.8	160
96	In Situ ATR-FTIR Study on the Selective Photo-oxidation of Cyclohexane over Anatase TiO₂. Journal of Physical Chemistry C, 2008, 112, 1552-1561.	1.5	100
97	On the Wavelength-Dependent Performance of Cr-Doped Silica in Selective Photo-Oxidation. Journal of Physical Chemistry C, 2008, 112, 5471-5475.	1.5	14
98	Infinite Dilution Binary Diffusion Coefficients of Hydrotreating Compounds in Tetradecane in the Temperature Range from (310 to 475) K. Journal of Chemical & Engineering Data, 2008, 53, 439-443.	1.0	11
99	Structure and performance in propane ODH of Vanadia incorporated in (Ti-, Zr-)TUD-1. Studies in Surface Science and Catalysis, 2007, 170, 1190-1196.	1.5	0
100	Natural gas purification with a DDR zeolite membrane; permeation modelling with maxwell-stefan equations. Studies in Surface Science and Catalysis, 2007, 170, 1021-1027.	1.5	42
101	Fenton detemplation of ordered (meso)porous materials. Studies in Surface Science and Catalysis, 2007, 170, 648-654.	1.5	5
102	Applicability of Fiber-Optic-Based Raman Probes for On-Line Reaction Monitoring of High-Pressure Catalytic Hydrogenation Reactions. Applied Spectroscopy, 2007, 61, 470-478.	1.2	7
103	Direct Demonstration of Enhanced Diffusion in Mesoporous ZSM-5 Zeolite Obtained via Controlled Desilication. Journal of the American Chemical Society, 2007, 129, 355-360.	6.6	616
104	Alkaline Posttreatment of MFI Zeolites. From Accelerated Screening to Scale-up. Industrial & Engineering Chemistry Research, 2007, 46, 4193-4201.	1.8	161
105	Experimental and Theoretical Study of Reactive Stripping in Monolith Reactors. Industrial & Engineering Chemistry Research, 2007, 46, 4149-4157.	1.8	12
106	Enhancement of Catalyst Performance Using Pressure Pulses on Macroporous Structured Catalysts. Industrial & Engineering Chemistry Research, 2007, 46, 8574-8583.	1.8	17
107	In situ monitoring of desilication of MFI-type zeolites in alkaline medium. Physical Chemistry Chemical Physics, 2007, 9, 4822.	1.3	49
108	Coke Deposition Profiles during Artificial Aging of Hydroprocessing Catalysts. Industrial & Engineering Chemistry Research, 2007, 46, 421-429.	1.8	12

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109	Ideal Chemical Conversion Concept for the Industrial Production of Ethene from Hydrocarbons. Industrial & Engineering Chemistry Research, 2007, 46, 4045-4062.	1.8	13
110	Oxidative thermolysis of Mn(acac)3 on the surface of Î³-alumina support. Thermochimica Acta, 2007, 456, 145-151.	1.2	5
111	Catalyst deactivation during thiophene HDS: The role of structural sulfur. Applied Catalysis A: General, 2007, 318, 28-36.	2.2	44
112	Tuning the morphology of monolith coatings. Applied Catalysis A: General, 2007, 319, 267-271.	2.2	24
113	On the mechanism of model diesel soot-O2 reaction catalysed by Pt-containing La3+-doped CeO2A TAP study with isotopic O2. Catalysis Today, 2007, 121, 237-245.	2.2	80
114	Bottom-mounted ATR probes: Pitfalls that arise from gravitational effects. Catalysis Today, 2007, 126, 184-190.	2.2	7
115	Selective hydrogenation of fatty acid methyl esters over palladium on carbon-based monoliths. Catalysis Today, 2007, 128, 13-17.	2.2	47
116	Analysis of coke deposition profiles in commercial spent hydroprocessing catalysts using Raman spectroscopy. Fuel, 2007, 86, 1122-1129.	3.4	58
117	A review of intensification of photocatalytic processes. Chemical Engineering and Processing: Process Intensification, 2007, 46, 781-789.	1.8	387
118	Modelling kinetics and deactivation for the selective hydrogenation of an aromatic ketone over Pd/SiO2. Chemical Engineering Science, 2007, 62, 5322-5329.	1.9	20
119	Electrochemical generation of hydrogen peroxide using surface area-enhanced Ti-mesh electrodes. Electrochimica Acta, 2007, 52, 6304-6309.	2.6	39
120	Carbonâ€"ceramic composites for enzyme immobilization. Microporous and Mesoporous Materials, 2007, 99, 216-223.	2.2	17
121	Alkaline-mediated mesoporous mordenite zeolites for acid-catalyzed conversionsâ˜†. Journal of Catalysis, 2007, 251, 21-27.	3.1	211
122	Deuteration study to elucidate hydrogenolysis of benzylic alcohols over supported palladium catalysts. Journal of Catalysis, 2007, 246, 344-350.	3.1	30
123	Evaluation of deactivation mechanisms of Pd-catalyzed hydrogenation of 4-isobutylacetophenone. Journal of Catalysis, 2007, 248, 249-257.	3.1	15
124	Cracking of a rapeseed vegetable oil under realistic FCC conditions. Applied Catalysis B: Environmental, 2007, 72, 44-61.	10.8	175
125	Potential rare-earth modified CeO2 catalysts for soot oxidation part II: Characterisation and catalytic activity with NO+O2. Applied Catalysis B: Environmental, 2007, 75, 201-209.	10.8	106
126	Potential rare-earth modified CeO2 catalysts for soot oxidation. Applied Catalysis B: Environmental, 2007, 75, 210-220.	10.8	100

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127	Potential rare earth modified CeO2 catalysts for soot oxidation. Applied Catalysis B: Environmental, 2007, 75, 189-200.	10.8	304
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.	1.8	96
129	Preparation of a monolith-supported Au/TiO2 catalyst active for CO oxidation. Gold Bulletin, 2007, 40, 291-294.	3.2	7
130	Mechanism of deactivation of Au/Fe2O3 catalysts under waterâ€"gas shift conditions. Topics in Catalysis, 2007, 44, 209-221.	1.3	22
131	Role of Adsorption in the Permeation of CH4and CO2through a Silicalite-1 Membrane. Industrial & Engineering Chemistry Research, 2006, 45, 767-776.	1.8	117
132	Desilication: on the controlled generation of mesoporosity in MFI zeolites. Journal of Materials Chemistry, 2006, 16, 2121-2131.	6.7	519
133	Alkaline Treatment of Iron-Containing MFI Zeolites. Influence on Mesoporosity Development and Iron Speciation. Journal of Physical Chemistry B, 2006, 110, 20369-20378.	1.2	19
134	On the role of iron in preparation of mesoporous Fe-MFI zeolites via desilication. Studies in Surface Science and Catalysis, 2006, 162, 267-274.	1.5	3
135	Selective oxidation of CO in the presence of H2, H2O and CO2utilising Au/Î±-Fe2O3catalysts for use in fuel cells. Journal of Materials Chemistry, 2006, 16, 199-208.	6.7	92
136	Alkaline leaching for synthesis of improved Fe-ZSM5 catalysts. Catalysis Communications, 2006, 7, 100-103.	1.6	20
137	Gasâˆ'Liquid Mass Transfer in Benchscale Stirred TanksFluid Properties and Critical Impeller Speed for Gas Induction. Industrial & Engineering Chemistry Research, 2006, 45, 4574-4581.	1.8	36
138	The Production of Propene Oxide:Â Catalytic Processes and Recent Developments. Industrial & Engineering Chemistry Research, 2006, 45, 3447-3459.	1.8	456
139	Tooling up Heterogeneous Catalysis through Fentonâ€™s Chemistry. Detemplation and functionalization of micro- And mesoporous materials.. Studies in Surface Science and Catalysis, 2006, 162, 37-46.	1.5	1
140	Process intensification and process system engineering: a friendly symbiosis. Computer Aided Chemical Engineering, 2006, , 29-37.	0.3	10
141	XPS characterisation of carbon-coated alumina support. Surface and Interface Analysis, 2006, 38, 917-921.	0.8	40
142	Selective hydrogenation of fatty acid methyl esters on palladium catalysts supported on carbon-coated monoliths. Carbon, 2006, 44, 173-176.	5.4	28
143	Pd and Pt catalysts supported on carbon-coated monoliths for low-temperature combustion of xylenes. Carbon, 2006, 44, 2463-2468.	5.4	48
144	Carbon coated monoliths as support material for a lactase from Aspergillus oryzae: Characterization and design of the carbon carriers. Carbon, 2006, 44, 3053-3063.	5.4	18

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145	Shouldnâ€™t catalysts shape up?. Catalysis Today, 2006, 111, 111-118.	2.2	97
146	Development of TiO2/Ti wire-mesh honeycomb for catalytic combustion of ethyl acetate in air. Applied Catalysis A: General, 2006, 313, 86-93.	2.2	25
147	Synthesis and characterisation of hybrid carbon-alumina support. Applied Surface Science, 2006, 252, 8549-8556.	3.1	22
148	Chromium-incorporated TUD-1 as a new visible light-sensitive photo-catalyst for selective oxidation of propane. Catalysis Today, 2006, 117, 337-342.	2.2	26
149	Simulation of coke and metal deposition in catalyst pellets using a non-steady state fixed bed reactor model. Chemical Engineering Science, 2006, 61, 7463-7478.	1.9	23
150	Micropore accessibility of large mordenite crystals. Microporous and Mesoporous Materials, 2006, 92, 145-153.	2.2	14
151	Optimal conditions in fluid catalytic cracking: A mechanistic approach. Applied Catalysis A: General, 2006, 297, 198-219.	2.2	61
152	Structured Reactors for Enzyme Immobilization. Chemical Engineering Research and Design, 2006, 84, 390-398.	2.7	30
153	Adsorptive Separation of Light Olefin/Paraffin Mixtures. Chemical Engineering Research and Design, 2006, 84, 350-354.	2.7	113
154	Reaction Kinetics and Intermediate Determination of Solid Acid Catalysed Liquid-phase Hydrolysis Reactions: A Real-time in situ ATR FT-IR Study. Catalysis Letters, 2006, 109, 199-206.	1.4	9
155	Catalytic Characterization of Mesoporous Tiâ€“Silica Hollow Spheres. Catalysis Letters, 2006, 109, 207-210.	1.4	16
156	Utilizing full-exchange capacity of zeolites by alkaline leaching: Preparation of Fe-ZSM5 and application in N2O decomposition. Journal of Catalysis, 2006, 238, 250-259.	3.1	108
157	Selective photo(catalytic)-oxidation of cyclohexane: Effect of wavelength and TiO2 structure on product yields. Journal of Catalysis, 2006, 238, 342-352.	3.1	153
158	Role of gold cations in the oxidation of carbon monoxide catalyzed by iron oxide-supported gold. Journal of Catalysis, 2006, 242, 71-81.	3.1	322
159	Iron site modification upon alkaline treatment of Fe-ZSM-5 zeolitesâ€”Opportunities for improved N2O decomposition activity. Journal of Catalysis, 2006, 243, 212-216.	3.1	40
160	DRIFTS study of the waterâ€“gas shift reaction over Au/Fe2O3. Journal of Catalysis, 2006, 243, 171-182.	3.1	106
161	Production of clean transportation fuels and lower olefins from Fischer-Tropsch Synthesis waxes under fluid catalytic cracking conditions. Applied Catalysis B: Environmental, 2006, 63, 277-295.	10.8	70
162	Monoliths as Biocatalytic Reactors: Smart Gasâ€”Liquid Contacting for Process Intensification. ChemInform, 2006, 37, no.	0.1	0

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163	TiO2 Nanoparticles in Mesoporous TUD-1: Synthesis, Characterization and Photocatalytic Performance in Propane Oxidation. Chemistry - A European Journal, 2006, 12, 620-628.	1.7	52
164	Potential application of monolith packed columns as bioreactors, control of biofilm formation. Biotechnology and Bioengineering, 2006, 93, 238-245.	1.7	29
165	Reactive Stripping in Structured Catalytic Reactors: Hydrodynamics and Reaction Performance. , 2005, , 233-264.		5
166	The Present and the Future of Structured Catalysts. Chemical Industries, 2005, , 1-17.	0.1	3
167	Two-Phase Segmented Flow in Capillaries and Monolith Reactors. Chemical Industries, 2005, , 393-434.	0.1	0
168	Modeling and Design of Monolith Reactors for Three-Phase Processes. Chemical Industries, 2005, , 435-478.	0.1	1
169	Reaction pathways on NiMo/Al2O3 catalysts for hydrodesulfurization of diesel fuel. Applied Catalysis A: General, 2005, 293, 11-23.	2.2	41
170	Water vapour separation from permanent gases by a zeolite-4A membrane. Journal of Membrane Science, 2005, 253, 57-66.	4.1	130
171	Silicalite-1 coating on Pt/TiO2 particles by a two-step hydrothermal synthesis. Microporous and Mesoporous Materials, 2005, 83, 244-250.	2.2	23
172	Decoupling mesoporosity formation and acidity modification in ZSM-5 zeolites by sequential desilicationâ€“dealumination. Microporous and Mesoporous Materials, 2005, 87, 153-161.	2.2	214
173	Comparison of adsorption behaviour of light alkanes and alkenes on Kureha activated carbon. Carbon, 2005, 43, 1416-1423.	5.4	49
174	Adsorption properties of carbon molecular sieves prepared from an activated carbon by pitch pyrolysis. Carbon, 2005, 43, 1643-1651.	5.4	47
175	High performance monolithic catalysts for hydrogenation reactions. Catalysis Today, 2005, 105, 623-628.	2.2	58
176	Fast gasâ€“liquidâ€“solid reactions in monoliths: A case study of nitro-aromatic hydrogenation. Catalysis Today, 2005, 105, 421-428.	2.2	28
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