Jacob A Moulijn

List of Publications by Year in Descending Order

637 papers	41,072 citations	98 h-index	173 g-index
657 ext. papers	43,335 ext. citations	6.6 avg, IF	7.42 L-index

#	Paper	IF	Citations
637	The direct synthesis of hydrogen peroxide using a combination of a hydrophobic solvent and water. *Catalysis Science and Technology*, **2020**, 10, 8203-8212	5.5	1
636	Structured catalysts and reactors Perspectives for demanding applications. *Catalysis Today*, **2020**, 383, 5-5	5.3	12
635	Reactant Additive-Triggered Deactivation of Pd/Alumina-Catalyzed Hydrogenation Reactions. A Reactivity and Adsorption Study. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17762-17768	3.9	2
634	Tailoring the multiphase flow pattern of gas and liquid through micro-packed bed of pillars. *Reaction Chemistry and Engineering*, **2019**, 4, 838-851	4.9	5
633	Nanoparticle sintering in atomic layer deposition of supported catalysts: Kinetic modeling of the size distribution. *Catalysis Today*, **2018**, 316, 51-61	5.3	34
632	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	3.9	6
631	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	6.4	75
630	Production of Monosugars from Lignocellulosic Biomass in Molten Salt Hydrates: Process Design and Techno-Economic Analysis. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13423-13433	3.9	19
629	Reactive Separations **2017**, 565-572		1
628	Performance Testing of Hydrodesulfurization Catalysts Using a Single-Pellet-String Reactor. *Chemical Engineering and Technology*, **2017**, 40, 2025-2034	2	8
627	Low-temperature atomic layer deposition delivers more active and stable Pt-based catalysts. *Nanoscale*, **2017**, 9, 10802-10810	7.7	15
626	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	21.8	14
625	Process Intensification ? **2017**, 509-518		7
624	Catalyst testing in multiphase micro-packed-bed reactors; criterion for radial mass transport. *Catalysis Today*, **2016**, 259, 354-359	5.3	26
623	Designing new catalysts: synthesis of new active structures: general discussion. *Faraday Discussions*, **2016**, 188, 131-59	3.6	4
622	Gas phase stabiliser-free production of hydrogen peroxide using supported gold-palladium catalysts. *Chemical Science*, **2016**, 7, 5833-5837	9.4	15
621	Low temperature catalytic partial oxidation of ethane to oxygenates by Fe and Cu SM-5 in a continuous flow reactor. *Journal of Catalysis*, **2015**, 330, 84-92	7.3	21

620	Efficient green methanol synthesis from glycerol. *Nature Chemistry*, **2015**, 7, 1028-32	17.6	77
619	Structuring catalyst and reactor an inviting avenue to process intensification. *Catalysis Science and Technology*, **2015**, 5, 807-817	5.5	94
618	Sorbitol dehydration in a ZnCl2 molten salt hydrate medium: molecular modeling. *Catalysis Science and Technology*, **2014**, 4, 152-163	5.5	16
617	On the drug adsorption capacity of SBA-15 obtained from various detemplation protocols. *Materials Letters*, **2014**, 131, 186-189	3.3	8
616	Inhibition of a Gold-Based Catalyst in Benzyl Alcohol Oxidation: Understanding and Remediation. *Catalysts*, **2014**, 4, 89-115	4	32
615	Monolithic reactors in catalysis: excellent control. *Current Opinion in Chemical Engineering*, **2013**, 2, 346-353	3.4	25
614	Simultaneous hydrolysis and hydrogenation of cellobiose to sorbitol in molten salt hydrate media. *Catalysis Science and Technology*, **2013**, 3, 1565	5.5	26
613	Sorbitol dehydration into isosorbide in a molten salt hydrate medium. *Catalysis Science and Technology*, **2013**, 3, 1540	5.5	54
612	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	13.1	77
611	Catalyst Performance Testing in Multiphase Systems: Implications of Using Small Catalyst Particles in Hydrodesulfurization. *Industrial & Engineering Chemistry Research*, **2013**, 52, 9069-9085	3.9	30
610	Influence of reaction conditions on the direct synthesis of hydrogen peroxide over AuPd/carbon catalysts. *Catalysis Science and Technology*, **2012**, 2, 1908	5.5	21
609	Heat transport in structured packings with two-phase co-current downflow. *Chemical Engineering Journal*, **2012**, 185-186, 250-266	14.7	25
608	Functioning devices for solar to fuel conversion. *Chemical Engineering and Processing: Process Intensification*, **2012**, 51, 137-149	3.7	18
607	Process intensification in the future production of base chemicals from biomass. *Chemical Engineering and Processing: Process Intensification*, **2012**, 51, 117-136	3.7	104
606	Photo-catalytic oxidation of cyclohexane over TiO2: a novel interpretation of temperature dependent performance. *Physical Chemistry Chemical Physics*, **2011**, 13, 1345-55	3.6	14
605	The Potential of Biomass in the Production of Clean Transportation Fuels and Base Chemicals. *ACS Symposium Series*, **2011**, 65-77	0.4	4
604	Monolithic Catalysts and Reactors. *Advances in Catalysis*, **2011**, 54, 249-327	2.4	30
603	Photocatalytic Oxidation of Cyclohexane over TiO2: Evidence for a Mars an Krevelen Mechanism. *Journal of Physical Chemistry C*, **2011**, 115, 1330-1338	3.8	42

602	Combined ATR-FTIR and DFT Study of Cyclohexanone Adsorption on Hydrated TiO2 Anatase Surfaces. *Journal of Physical Chemistry C*, **2011**, 115, 14164-14172	3.8	20
601	The effect of water on the performance of TiO2 in photocatalytic selective alkane oxidation. *Journal of Catalysis*, **2011**, 277, 129-133	7.3	27
600	Heterogeneously Catalyzed Continuous-Flow Hydrogenation Using Segmented Flow in Capillary Columns. *ChemCatChem*, **2011**, 3, 1155-1157	5.2	43
599	Stability of metal nanoparticles formed during reduction of alumina supported nickel and cobalt catalysts. *Catalysis Today*, **2011**, 163, 20-26	5.3	21
598	How Phase Composition Influences Optoelectronic and Photocatalytic Properties of TiO2. *Journal of Physical Chemistry C*, **2011**, 115, 2211-2217	3.8	99
597	Shape selective methanol to olefins over highly thermostable DDR catalysts. *Applied Catalysis A: General*, **2011**, 391, 234-243	5.1	50
596	Catalytic pyrolysis of microalgae to high-quality liquid bio-fuels. *Biomass and Bioenergy*, **2011**, 35, 3199-3207	3.9	224
595	On-site low-pressure diesel HDS for fuel cell applications: Deepening the sulfur content to ?1ppm. *Fuel*, **2011**, 90, 3021-3027	7.1	9
594	The effect of Au on TiO2 catalyzed selective photocatalytic oxidation of cyclohexane. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 217, 326-332	4.7	29
593	Preparation of Supported Metal Catalysts. *Catalytic Science Series*, **2011**, 1-40	0.4	
592	Catalytic Engineering in the Processing of Biomass into Chemicals **2010**, 163-188		1
591	Zeolite Membranes in Catalysis: What Is New and How Bright Is the Future? **2010**, 211-237		2
590	Progress in Methods for Identification of Micro- and Macroscale Physical Phenomena in Chemical Reactors: Improvements in Scale-Up of Chemical Reactors **2010**, 331-356		
589	Toward a Physically Sound Structure−Activity Relationship of TiO2-Based Photocatalysts. *Journal of Physical Chemistry C*, **2010**, 114, 327-332	3.8	69
588	Transient Behavior and Stability in Miniaturized Multiphase Packed Bed Reactors. *Industrial & Engineering Chemistry Research*, **2010**, 49, 1033-1040	3.9	36
587	Cyclohexane selective photocatalytic oxidation by anatase TiO2: influence of particle size and crystallinity. *Physical Chemistry Chemical Physics*, **2010**, 12, 2744-50	3.6	43
586	The effect of catalyst preparation method on the performance of supported Au–Pd catalysts for the direct synthesis of hydrogen peroxide. *Green Chemistry*, **2010**, 12, 915	10	60
585	Effect of the reaction conditions on the performance of Au-Pd/TiO(2) catalyst for the direct synthesis of hydrogen peroxide. *Physical Chemistry Chemical Physics*, **2010**, 12, 2488-92	3.6	54

584	Enzymatic Catalysis Today and Tomorrow **2010**, 95-120		1
583	Hierarchical Porous Zeolites by Demetallation **2010**, 31-50		2
582	Challenges in Catalysis for Sustainability **2010**, 143-162		
581	The Fascinating Structure and the Potential of Metal□Organic Frameworks **2010**, 73-94		1
580	Oxidation Tools in the Synthesis of Catalysts and Related Functional Materials **2010**, 121-142		0
579	Switching from Batch to Continuous Processing for Fine and Intermediate-Scale Chemicals Manufacture **2010**, 309-330		1
578	Preparation of Nanosized Gold Catalysts and Oxidation at Room Temperature **2010**, 51-71		
577	Intensification of Heat Transfer in Chemical Reactors: Heat Exchanger Reactors **2010**, 261-287		2
576	Reactors Using Alternative Energy Forms for Green Synthetic Routes and New Functional Products **2010**, 289-308		1
575	Structured Reactors, a Wealth of Opportunities **2010**, 189-209		4
574	Molecular Catalytic Kinetics Concepts **2010**, 1-30		4
573	Microstructures on Macroscale: Microchannel Reactors for Mediumand Large-Size Processes **2010**, 239-260		3
572	Mechanism of Laccase□TEMPO-Catalyzed Oxidation of Benzyl Alcohol. *ChemCatChem*, **2010**, 2, 827-833	5.2	63
571	Volatile tracer dispersion in multi-phase packed beds. *Chemical Engineering Science*, **2010**, 65, 3972-3985	4.4	8
570	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	7.3	34
569	Photocatalytic oxidation of cyclohexane by titanium dioxide: Catalyst deactivation and regeneration. *Journal of Catalysis*, **2010**, 273, 199-210	7.3	47
568	Catalyst performance changes induced by palladium phase transformation in the hydrogenation of benzonitrile. *Journal of Catalysis*, **2010**, 274, 176-191	7.3	45
567	Cellulose conversion to isosorbide in molten salt hydrate media. *ChemSusChem*, **2010**, 3, 325-8	8.3	98

566	Model-based, thermo-physical optimisation for high olefin yield in steam cracking reactors. *Chemical Engineering Research and Design*, **2010**, 88, 1305-1319	5.5	15
565	Heat transport in structured packings with co-current downflow of gas and liquid. *Chemical Engineering Science*, **2010**, 65, 420-426	4.4	25
564	FAPO and Fe-TUD-1: Promising catalysts for N2O mediated selective oxidation of propane?. *Journal of Catalysis*, **2009**, 262, 1-8	7.3	19
563	Effect of halide and acid additives on the direct synthesis of hydrogen peroxide using supported gold-palladium catalysts. *ChemSusChem*, **2009**, 2, 575-80	8.3	60
562	How Gold Deposition Affects Anatase Performance in the Photo-catalytic Oxidation of Cyclohexane. *Catalysis Letters*, **2009**, 129, 12-19	2.8	60
561	Relation between sulfur coordination of active sites and HDS activity for Mo and NiMo catalysts. *Journal of Molecular Catalysis A*, **2009**, 309, 79-88		30
560	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	5.3	31
559	Deep desulphurization of diesel fuels on bifunctional monolithic nanostructured Pt-zeolite catalysts. *Catalysis Today*, **2009**, 144, 235-250	5.3	33
558	Experimental and numerical comparison of structured packings with a randomly packed bed reactor for Fischer□ropsch synthesis. *Catalysis Today*, **2009**, 147, S2-S9	5.3	48
557	An internally illuminated monolith reactor: Pros and cons relative to a slurry reactor. *Catalysis Today*, **2009**, 147, S324-S329	5.3	28
556	Hydrogenation of dinitriles on Raney-type Ni catalysts: kinetic and mechanistic aspects. *Applied Catalysis A: General*, **2009**, 352, 193-201	5.1	23
555	Avoiding segregation during the loading of a catalyst□hert powder mixture in a packed micro-bed. *Applied Catalysis A: General*, **2009**, 365, 110-121	5.1	23
554	Catalyst testing in a multiple-parallel, gas□quid, powder-packed bed microreactor. *Applied Catalysis A: General*, **2009**, 365, 199-206	5.1	36
553	Kinetic and deactivation modelling of biphenyl liquid-phase hydrogenation over bimetallic Pt□d catalyst. *Applied Catalysis B: Environmental*, **2009**, 88, 213-223	21.8	22
552	Palladium and platinum catalysts supported on carbon nanofiber coated monoliths for low-temperature combustion of BTX. *Applied Catalysis B: Environmental*, **2009**, 89, 411-419	21.8	59
551	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	5.1	20
550	The Effect of Bromide Pretreatment on the Performance of Supported Au□d Catalysts for the Direct Synthesis of Hydrogen Peroxide. *ChemCatChem*, **2009**, 1, 479-484	5.2	26
549	Chemical Design of Carbon Coating on the Alumina Support **2009**, 119-130		

548	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	7.3	24
547	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	7.3	156
546	Polyethyleneimine (PEI) functionalized ceramic monoliths as enzyme carriers: Preparation and performance. *Journal of Molecular Catalysis B: Enzymatic*, **2008**, 50, 20-27		42
545	Carbon Monoliths in Catalysis **2008**, 401-427		
544	The role of the support in achieving high selectivity in the direct formation of hydrogen peroxide. *Green Chemistry*, **2008**, 10, 1162	10	78
543	Structured Packings for Multiphase Catalytic Reactors. *Industrial & Engineering Chemistry Research*, **2008**, 47, 3720-3751	3.9	145
542	Laboratory Catalytic Reactors: Aspects of Catalyst Testing 1 A list of symbols used in the text is provided at the end of the chapter. **2008**, 2019		4
541	In Situ ATR-FTIR Study on the Selective Photo-oxidation of Cyclohexane over Anatase TiO2. *Journal of Physical Chemistry C*, **2008**, 112, 1552-1561	3.8	82
540	On the Wavelength-Dependent Performance of Cr-Doped Silica in Selective Photo-Oxidation. *Journal of Physical Chemistry C*, **2008**, 112, 5471-5475	3.8	14
539	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	2.8	9
538	Deactivation and Regeneration **2008**, 1829		2
537	Rate Procurement and Kinetic Modelling 1 A list of symbols used in the text is provided at the end of the chapter. **2008**, 1693		1
536	Enabling Electrocatalytic Fischer□Tropsch Synthesis from Carbon Dioxide Over Copper-based Electrodes. *Catalysis Letters*, **2008**, 123, 186-192	2.8	60
535	Hydrogel coated monoliths for enzymatic hydrolysis of penicillin G. *Journal of Industrial Microbiology and Biotechnology*, **2008**, 35, 815-24	4.2	9
534	Propylene/propane mixture adsorption on faujasite sorbents. *Adsorption*, **2008**, 14, 309-321	2.6	51
533	Deep desulfurization of fossil fuels by air in the absence of a catalyst. *ChemSusChem*, **2008**, 1, 817-9	8.3	13
532	Separation and permeation characteristics of a DD3R zeolite membrane. *Journal of Membrane Science*, **2008**, 316, 35-45	9.6	203
531	Effect of steaming of iron containing AlPO-5 on the structure and activity in N2O decomposition. *Microporous and Mesoporous Materials*, **2008**, 112, 193-201	5.3	22

530	Dynamic methods for catalytic kinetics. *Applied Catalysis A: General*, **2008**, 342, 3-28	5.1	86
529	Process intensification and process systems engineering: A friendly symbiosis. *Computers and Chemical Engineering*, **2008**, 32, 3-11	4	146
528	Recent advances in catalysis□elected papers from APCAT 4 (Singapore, 6□8 December 2006). *Catalysis Today*, **2008**, 131, 1	5.3	3
527	Towards synthesis of an optimal thermal cracking reactor. *Chemical Engineering Research and Design*, **2008**, 86, 703-712	5.5	5
526	A novel photocatalytic monolith reactor for multiphase heterogeneous photocatalysis. *Applied Catalysis A: General*, **2008**, 334, 119-128	5.1	112
525	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	21.8	31
524	Influence of Si/Al ratio on hexane isomers adsorption equilibria. *Microporous and Mesoporous Materials*, **2008**, 111, 171-177	5.3	15
523	Separation of CO2 and CH4 by a DDR membrane. *Research on Chemical Intermediates*, **2008**, 34, 467-474	2.8	44
522	Experimental and Theoretical Study of Reactive Stripping in Monolith Reactors. *Industrial & Engineering Chemistry Research*, **2007**, 46, 4149-4157	3.9	10
521	Enhancement of Catalyst Performance Using Pressure Pulses on Macroporous Structured Catalysts. *Industrial & Engineering Chemistry Research*, **2007**, 46, 8574-8583	3.9	13
520	In situ monitoring of desilication of MFI-type zeolites in alkaline medium. *Physical Chemistry Chemical Physics*, **2007**, 9, 4822-30	3.6	41
519	Coke Deposition Profiles during Artificial Aging of Hydroprocessing Catalysts. *Industrial & Engineering Chemistry Research*, **2007**, 46, 421-429	3.9	10
518	Ideal Chemical Conversion Concept for the Industrial Production of Ethene from Hydrocarbons. *Industrial & Engineering Chemistry Research*, **2007**, 46, 4045-4062	3.9	12
517	Oxidative thermolysis of Mn(acac)3 on the surface of □alumina support. *Thermochimica Acta*, **2007**, 456, 145-151	2.9	4
516	Catalyst deactivation during thiophene HDS: The role of structural sulfur. *Applied Catalysis A: General*, **2007**, 318, 28-36	5.1	35
515	Tuning the morphology of monolith coatings. *Applied Catalysis A: General*, **2007**, 319, 267-271	5.1	23
514	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	5.3	76
513	Bottom-mounted ATR probes: Pitfalls that arise from gravitational effects. *Catalysis Today*, **2007**, 126, 184-190	5.3	7

512	Selective hydrogenation of fatty acid methyl esters over palladium on carbon-based monoliths. *Catalysis Today*, **2007**, 128, 13-17	5.3	45
511	Analysis of coke deposition profiles in commercial spent hydroprocessing catalysts using Raman spectroscopy. *Fuel*, **2007**, 86, 1122-1129	7.1	50
510	A review of intensification of photocatalytic processes. *Chemical Engineering and Processing: Process Intensification*, **2007**, 46, 781-789	3.7	332
509	Modelling kinetics and deactivation for the selective hydrogenation of an aromatic ketone over Pd/SiO2. *Chemical Engineering Science*, **2007**, 62, 5322-5329	4.4	19
508	Electrochemical generation of hydrogen peroxide using surface area-enhanced Ti-mesh electrodes. *Electrochimica Acta*, **2007**, 52, 6304-6309	6.7	34
507	Carbon□eramic composites for enzyme immobilization. *Microporous and Mesoporous Materials*, **2007**, 99, 216-223	5.3	16
506	Alkaline-mediated mesoporous mordenite zeolites for acid-catalyzed conversions?. *Journal of Catalysis*, **2007**, 251, 21-27	7.3	192
505	Deuteration study to elucidate hydrogenolysis of benzylic alcohols over supported palladium catalysts. *Journal of Catalysis*, **2007**, 246, 344-350	7.3	23
504	Evaluation of deactivation mechanisms of Pd-catalyzed hydrogenation of 4-isobutylacetophenone. *Journal of Catalysis*, **2007**, 248, 249-257	7.3	13
503	Cracking of a rapeseed vegetable oil under realistic FCC conditions. *Applied Catalysis B: Environmental*, **2007**, 72, 44-61	21.8	142
502	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	21.8	92
501	Potential rare-earth modified CeO2 catalysts for soot oxidation. *Applied Catalysis B: Environmental*, **2007**, 75, 210-220	21.8	91
500	Potential rare earth modified CeO2 catalysts for soot oxidation. *Applied Catalysis B: Environmental*, **2007**, 75, 189-200	21.8	271
499	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	3.9	86
498	Preparation of a monolith-supported Au/TiO2 catalyst active for CO oxidation **2007**, 40, 291-294		6
497	Mechanism of deactivation of Au/Fe2O3 catalysts under water□as shift conditions. *Topics in Catalysis*, **2007**, 44, 209-221	2.3	19
496	Structure and performance in propane ODH of Vanadia incorporated in (Ti-, Zr-)TUD-1. *Studies in Surface Science and Catalysis*, **2007**, 170, 1190-1196	1.8	
495	Natural gas purification with a DDR zeolite membrane; permeation modelling with maxwell-stefan equations. *Studies in Surface Science and Catalysis*, **2007**, 170, 1021-1027	1.8	37

494	Fenton detemplation of ordered (meso)porous materials. *Studies in Surface Science and Catalysis*, **2007**, 170, 648-654	1.8	5
493	Applicability of fiber-optic-based Raman probes for on-line reaction monitoring of high-pressure catalytic hydrogenation reactions. *Applied Spectroscopy*, **2007**, 61, 470-8	3.1	6
492	Direct demonstration of enhanced diffusion in mesoporous ZSM-5 zeolite obtained via controlled desilication. *Journal of the American Chemical Society*, **2007**, 129, 355-60	16.4	532
491	Alkaline Posttreatment of MFI Zeolites. From Accelerated Screening to Scale-up. *Industrial & Engineering Chemistry Research*, **2007**, 46, 4193-4201	3.9	146
490	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	7.3	97
489	Selective photo(catalytic)-oxidation of cyclohexane: Effect of wavelength and TiO2 structure on product yields. *Journal of Catalysis*, **2006**, 238, 342-352	7.3	138
488	Role of gold cations in the oxidation of carbon monoxide catalyzed by iron oxide-supported gold. *Journal of Catalysis*, **2006**, 242, 71-81	7.3	289
487	Iron site modification upon alkaline treatment of Fe-ZSM-5 zeolites□pportunities for improved N2O decomposition activity. *Journal of Catalysis*, **2006**, 243, 212-216	7.3	37
486	DRIFTS study of the water□as shift reaction over Au/Fe2O3. *Journal of Catalysis*, **2006**, 243, 171-182	7.3	97
485	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	21.8	56
484	Potential application of monolith packed columns as bioreactors, control of biofilm formation. *Biotechnology and Bioengineering*, **2006**, 93, 238-45	4.9	25
483	Role of Adsorption in the Permeation of CH4and CO2through a Silicalite-1 Membrane. *Industrial & Engineering Chemistry Research*, **2006**, 45, 767-776	3.9	107
482	Desilication: on the controlled generation of mesoporosity in MFI zeolites. *Journal of Materials Chemistry*, **2006**, 16, 2121-2131		472
481	Alkaline treatment of iron-containing MFI zeolites. Influence on mesoporosity development and iron speciation. *Journal of Physical Chemistry B*, **2006**, 110, 20369-78	3.4	17
480	On the role of iron in preparation of mesoporous Fe-MFI zeolites via desilication. *Studies in Surface Science and Catalysis*, **2006**, 162, 267-274	1.8	2
479	Selective oxidation of CO in the presence of H2, H2O and CO2 utilising Au/□Fe2O3 catalysts for use in fuel cells. *Journal of Materials Chemistry*, **2006**, 16, 199-208		84
478	Alkaline leaching for synthesis of improved Fe-ZSM5 catalysts. *Catalysis Communications*, **2006**, 7, 100-103	3.2	18
477	Gas□liquid Mass Transfer in Benchscale Stirred TanksFluid Properties and Critical Impeller Speed for Gas Induction. *Industrial & Engineering Chemistry Research*, **2006**, 45, 4574-4581	3.9	27

476	The Production of Propene Oxide: Catalytic Processes and Recent Developments. *Industrial & Engineering Chemistry Research*, **2006**, 45, 3447-3459	3.9	388
475	Tooling up Heterogeneous Catalysis through Fenton Chemistry. Detemplation and functionalization of micro- And mesoporous materials.. *Studies in Surface Science and Catalysis*, **2006**, 162, 37-46	1.8	1
474	Process intensification and process system engineering: a friendly symbiosis. *Computer Aided Chemical Engineering*, **2006**, 29-37	0.6	8
473	XPS characterisation of carbon-coated alumina support. *Surface and Interface Analysis*, **2006**, 38, 917-921	1.5	29
472	Selective hydrogenation of fatty acid methyl esters on palladium catalysts supported on carbon-coated monoliths. *Carbon*, **2006**, 44, 173-176	10.4	24
471	Pd and Pt catalysts supported on carbon-coated monoliths for low-temperature combustion of xylenes. *Carbon*, **2006**, 44, 2463-2468	10.4	41
470	Carbon coated monoliths as support material for a lactase from Aspergillus oryzae: Characterization and design of the carbon carriers. *Carbon*, **2006**, 44, 3053-3063	10.4	16
469	Shouldn catalysts shape up?. *Catalysis Today*, **2006**, 111, 111-118	5.3	89
468	Development of TiO2/Ti wire-mesh honeycomb for catalytic combustion of ethyl acetate in air. *Applied Catalysis A: General*, **2006**, 313, 86-93	5.1	19
467	Synthesis and characterisation of hybrid carbon-alumina support. *Applied Surface Science*, **2006**, 252, 8549-8556	6.7	16
466	Chromium-incorporated TUD-1 as a new visible light-sensitive photo-catalyst for selective oxidation of propane. *Catalysis Today*, **2006**, 117, 337-342	5.3	25
465	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	4.4	21
464	Micropore accessibility of large mordenite crystals. *Microporous and Mesoporous Materials*, **2006**, 92, 145-153	5.3	11
463	Optimal conditions in fluid catalytic cracking: A mechanistic approach. *Applied Catalysis A: General*, **2006**, 297, 198-219	5.1	53
462	Structured Reactors for Enzyme Immobilization. *Chemical Engineering Research and Design*, **2006**, 84, 390-398	5.5	26
461	Adsorptive Separation of Light Olefin/Paraffin Mixtures. *Chemical Engineering Research and Design*, **2006**, 84, 350-354	5.5	100
460	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	2.8	9
459	Catalytic Characterization of Mesoporous Ti Silica Hollow Spheres. *Catalysis Letters*, **2006**, 109, 207-210	2.8	15

458	TiO2 nanoparticles in mesoporous TUD-1: synthesis, characterization and photocatalytic performance in propane oxidation. *Chemistry - A European Journal*, **2005**, 12, 620-8	4.8	48
457	Room temperature detemplation of zeolites through H2O2-mediated oxidation. *Chemical Communications*, **2005**, 2744-6	5.8	12
456	Combined Hydrogenation and Isomerization Combined Hydrogenation and Isomerization under Diffusion Limiting Conditions. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9668-9675	3.9	7
455	Scaling-up Multiphase Monolith Reactors: Linking Residence Time Distribution and Feed Maldistribution. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4898-4913	3.9	65
454	Axial Mixing in Monolith Reactors: Effect of Channel Size. *Industrial & Engineering Chemistry Research*, **2005**, 44, 2046-2057	3.9	17
453	Monoliths as Biocatalytic Reactors:Smart Gasliquid Contacting for Process Intensification. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9646-9652	3.9	25
452	Stacking of Film-Flow Monoliths for Improved Performance in Reactive Stripping. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9556-9560	3.9	10
451	Critical Impeller Speed (NSG) for Solid Suspension in Sparged Stirred Vessels Fitted with Helical Coils. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4400-4405	3.9	7
450	Highly active and stable ion-exchanged Feferrierite catalyst for N2O decomposition under nitric acid tail gas conditions. *Catalysis Communications*, **2005**, 6, 301-305	3.2	46
449	Creation of hollow zeolite architectures by controlled desilication of Al-zoned ZSM-5 crystals. *Journal of the American Chemical Society*, **2005**, 127, 10792-3	16.4	414
448	Reactive Stripping in Structured Catalytic Reactors: Hydrodynamics and Reaction Performance **2005**, 233-264		3
447	The Present and the Future of Structured Catalysts. *Chemical Industries*, **2005**, 1-17		2
446	Monolithic Catalysts for Three-Phase Processes. *Chemical Industries*, **2005**, 355-392		2
445	Two-Phase Segmented Flow in Capillaries and Monolith Reactors. *Chemical Industries*, **2005**, 393-434		
444	Modeling and Design of Monolith Reactors for Three-Phase Processes. *Chemical Industries*, **2005**, 435-478		
443	Transformation of a Structured Carrier into a Structured Catalyst. *Chemical Industries*, **2005**, 751-778		1
442	Reaction pathways on NiMo/Al2O3 catalysts for hydrodesulfurization of diesel fuel. *Applied Catalysis A: General*, **2005**, 293, 11-23	5.1	34
441	Water vapour separation from permanent gases by a zeolite-4A membrane. *Journal of Membrane Science*, **2005**, 253, 57-66	9.6	119

440	Silicalite-1 coating on Pt/TiO2 particles by a two-step hydrothermal synthesis. *Microporous and Mesoporous Materials*, **2005**, 83, 244-250	5.3	20
439	Decoupling mesoporosity formation and acidity modification in ZSM-5 zeolites by sequential desilication–dealumination. *Microporous and Mesoporous Materials*, **2005**, 87, 153-161	5.3	190
438	Comparison of adsorption behaviour of light alkanes and alkenes on Kureha activated carbon. *Carbon*, **2005**, 43, 1416-1423	10.4	41
437	Adsorption properties of carbon molecular sieves prepared from an activated carbon by pitch pyrolysis. *Carbon*, **2005**, 43, 1643-1651	10.4	42
436	High performance monolithic catalysts for hydrogenation reactions. *Catalysis Today*, **2005**, 105, 623-628	5.3	54
435	Fast gas–liquid–solid reactions in monoliths: A case study of nitro-aromatic hydrogenation. *Catalysis Today*, **2005**, 105, 421-428	5.3	26
434	Biofilm growth pattern in honeycomb monolith packings: Effect of shear rate and substrate transport limitations. *Catalysis Today*, **2005**, 105, 448-454	5.3	30
433	Modelling of reactive stripping in monolith reactors. *Catalysis Today*, **2005**, 105, 414-420	5.3	12
432	Formation of textural and mechanical properties of extruded ceramic honeycomb monoliths: An 1H NMR imaging study. *Catalysis Today*, **2005**, 105, 507-515	5.3	19
431	A novel structured bioreactor: Development of a monolithic stirrer reactor with immobilized lipase. *Catalysis Today*, **2005**, 105, 443-447	5.3	50
430	Fischer–Tropsch synthesis using monolithic catalysts. *Catalysis Today*, **2005**, 105, 350-356	5.3	95
429	Scaling down trickle bed reactors. *Catalysis Today*, **2005**, 106, 227-232	5.3	40
428	Reactive stripping in pilot scale monolith reactors–application to esterification. *Chemical Engineering and Processing: Process Intensification*, **2005**, 44, 695-699	3.7	20
427	Multiphase monolith reactors: Chemical reaction engineering of segmented flow in microchannels. *Chemical Engineering Science*, **2005**, 60, 5895-5916	4.4	472
426	The mechanism of low-temperature CO oxidation with Au/Fe2O3 catalysts: a combined Mössbauer, FT-IR, and TAP reactor study. *Journal of Catalysis*, **2005**, 230, 52-65	7.3	167
425	Enhanced soot oxidation by lattice oxygen via La3+-doped CeO2. *Journal of Catalysis*, **2005**, 230, 237-248	7.3	346
424	In situ visible microscopic study of molten Cs2SO4–V2O5–soot system: Physical interaction, oxidation rate, and data evaluation. *Applied Catalysis B: Environmental*, **2005**, 60, 233-243	21.8	31
423	Liquid residence time distribution in the film flow monolith reactor. *AICHE Journal*, **2005**, 51, 122-133	3.6	22

422	Inertial and interfacial effects on pressure drop of Taylor flow in capillaries. *AICHE Journal*, **2005**, 51, 2428-2440	3.6	271
421	Mechanism of hierarchical porosity development in MFI zeolites by desilication: the role of aluminium as a pore-directing agent. *Chemistry - A European Journal*, **2005**, 11, 4983-94	4.8	415
420	The pressure drop experiment to determine slug lengths in multiphase monoliths. *Catalysis Today*, **2005**, 105, 667-672	5.3	30
419	Hydrodynamic properties of a novel □pen wall□monolith reactor. *Catalysis Today*, **2005**, 105, 385-390	5.3	10
418	Characteristics of drying and active component distribution in alumina monoliths using 1H-NMR imaging. *Catalysis Today*, **2005**, 105, 484-491	5.3	12
417	Are Fischer□ropsch waxes good feedstocks for fluid catalytic cracking units?. *Catalysis Today*, **2005**, 106, 288-292	5.3	43
416	Fe, Co and Cu-incorporated TUD-1: Synthesis, characterization and catalytic performance in N2O decomposition and cyclohexane oxidation. *Catalysis Today*, **2005**, 110, 264-271	5.3	48
415	Innovations in the synthesis of Fe-(exchanged)-zeolites. *Catalysis Today*, **2005**, 110, 255-263	5.3	25
414	Adsorption on Kureha Activated Carbon: Isotherms and Kinetics. *Adsorption*, **2005**, 11, 637-641	2.6	5
413	The effect of high-temperature pre-treatment and water on the low temperature CO oxidation with Au/Fe2O3 catalysts. *Catalysis Letters*, **2005**, 100, 39-47	2.8	57
412	Active oxygen from CeO2 and its role in catalysed soot oxidation. *Catalysis Letters*, **2005**, 99, 203-205	2.8	123
411	Role of intrinsic zeolite properties on mesopore formation by desilication of MFI structures. *Studies in Surface Science and Catalysis*, **2005**, 156, 401-408	1.8	11
410	Zeolite based separation of light olefin and paraffin mixtures. *Studies in Surface Science and Catalysis*, **2005**, 158, 979-986	1.8	5
409	PREPARATION OF SUPPORTED METAL CATALYSTS. *Catalytic Science Series*, **2005**, 1-32	0.4	9
408	Cracking behaviour of aromatic- and organic sulfur compounds under realistic FCC conditions in a microriser reactor. *Studies in Surface Science and Catalysis*, **2004**, 149, 217-232	1.8	
407	Mass transfer and kinetics of the three-phase hydrogenation of a dinitrile over a Raney-type nickel catalyst. *Chemical Engineering Science*, **2004**, 59, 259-269	4.4	24
406	The role of NO2 and O2 in the accelerated combustion of soot in diesel exhaust gases. *Applied Catalysis B: Environmental*, **2004**, 50, 185-194	21.8	251
405	CeO2 catalysed soot oxidation. *Applied Catalysis B: Environmental*, **2004**, 51, 9-19	21.8	192

404	SBA-15 based catalysts in catalytic N2O decomposition in a model tail-gas from nitric acid plants. *Applied Catalysis B: Environmental*, **2004**, 53, 265-274	21.8	60
403	An optimal usage of NO x in a combined Pt/ceramic foam and a wall-flow monolith filter for an effective NO x -assisted soot oxidation. *Topics in Catalysis*, **2004**, 30/31, 305-308	2.3	12
402	N2O Decomposition over Liquid Ion-Exchanged Fe-BEA Catalysts: Correlation Between Activity and the IR Intensity of Adsorbed NO at 1874 cm. *Catalysis Letters*, **2004**, 93, 113-120	2.8	27
401	Kinetics of solid acid catalysed etherification of symmetrical primary alcohols: zeolite BEA catalysed etherification of 1-octanol. *Applied Catalysis A: General*, **2004**, 266, 109-116	5.1	46
400	Determination of adsorption and diffusion parameters in zeolites through a structured approach. *Chemical Engineering Science*, **2004**, 59, 2477-2487	4.4	15
399	Structured reactors for enzyme immobilization: advantages of tuning the wall morphology. *Chemical Engineering Science*, **2004**, 59, 5027-5033	4.4	41
398	Real-time in situ ATR-FTIR analysis of the liquid phase hydrogenation of butyrolactone over Cu-ZnO catalysts: A mechanistic study by varying lactone ring size. *Chemical Engineering Science*, **2004**, 59, 5479-5485	4.4	59
397	Extraction of citric acid from aqueous solutions with Alamine 336: equilibrium and kinetics. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 1155-1161	3.5	11
396	Optimal Aluminum-Assisted Mesoporosity Development in MFI Zeolites by Desilication.. *ChemInform*, **2004**, 35, no		6
395	Operando ATR-FTIR analysis of liquid-phase catalytic reactions: can heterogeneous catalysts be observed?. *Vibrational Spectroscopy*, **2004**, 34, 109-121	2.1	44
394	Enhancing the start-up of pyrolysis gasoline hydrogenation reactors by applying tailored ex situ presulfided Ni/Al2O3 catalysts. *Fuel*, **2004**, 83, 1-8	7.1	32
393	On the introduction of intracrystalline mesoporosity in zeolites upon desilication in alkaline medium. *Microporous and Mesoporous Materials*, **2004**, 69, 29-34	5.3	290
392	Concentration-dependent diffusion of isobutane in silicalite-1 studied with the ZLC technique. *Chemical Engineering Science*, **2004**, 59, 3827-3835	4.4	23
391	Performance of the monolithic stirrer reactor: applicability in multi-phase processes. *Chemical Engineering Science*, **2004**, 59, 4975-4981	4.4	34
390	Increasing the low propene epoxidation product yield of gold/titania-based catalysts. *Applied Catalysis A: General*, **2004**, 270, 49-56	5.1	47
389	Adsorption of butane isomers and SF6 on Kureha activated carbon: 1. Equilibrium. *Langmuir*, **2004**, 20, 5277-84	4	14
388	Photocatalytic Degradation of 2,4-Dichlorophenoxyacetic Acid Using Concentrated Solar Radiation:Batch and Continuous Operation. *Industrial & Engineering Chemistry Research*, **2004**, 43, 8178-8187	3.9	41
387	Improving Flooding Performance for Countercurrent Monolith Reactors. *Industrial & Engineering Chemistry Research*, **2004**, 43, 4848-4855	3.9	7

386	Adsorption of Butane Isomers and SF6 on Kureha Activated Carbon: 2. Kinetics. *Langmuir*, **2004**, 20, 1704-1710	4	13
385	Monolithic Catalysts as an Alternative to Slurry Systems: Hydrogenation of Edible Oil. *Industrial & Engineering Chemistry Research*, **2004**, 43, 2337-2344	3.9	52
384	Reactant-Selective Hydrogenation over Composite Silicalite-1-Coated Pt/TiO2 Particles. *Industrial & Engineering Chemistry Research*, **2004**, 43, 1211-1215	3.9	64
383	Optimal Aluminum-Assisted Mesoporosity Development in MFI Zeolites by Desilication. *Journal of Physical Chemistry B*, **2004**, 108, 13062-13065	3.4	411
382	Measuring diesel soot with a scanning mobility particle sizer and an electrical low-pressure impactor: performance assessment with a model for fractal-like agglomerates. *Journal of Aerosol Science*, **2004**, 35, 633-655	4.3	113
381	Fermentation of Glucose to Lactic Acid Coupled with Reactive Extraction: A Review. *Industrial & Engineering Chemistry Research*, **2004**, 43, 5969-5982	3.9	198
380	67 Activity and deactivation of HDS catalysts: Studying the active phase using CO as a probe molecule. *Studies in Surface Science and Catalysis*, **2003**, 145, 319-321	1.8	1
379	Pressure Drop of Taylor Flow in Capillaries: Impact of Slug Length **2003**, 519		4
378	Trends in Fischer□Tropsch Reactor Technology□Opportunities for Structured Reactors. *Topics in Catalysis*, **2003**, 26, 29-39	2.3	60
377	Elucidation of the Surprising Role of NO in N2O Decomposition over FeZSM-5. *Kinetics and Catalysis* , **2003**, 44, 639-647	1.5	14
376	Dispersion and Distribution of Ruthenium on Carbon-Coated Ceramic Monolithic Catalysts Prepared by Impregnation. *Catalysis Letters*, **2003**, 90, 181-186	2.8	11
375	An optimal NOx assisted abatement of diesel soot in an advanced catalytic filter design. *Applied Catalysis B: Environmental*, **2003**, 42, 35-45	21.8	85
374	Stability of catalytic foam diesel-soot filters based on CsO, MoO, and CsSO molten-salt catalysts. *Applied Catalysis B: Environmental*, **2003**, 42, 337-347	21.8	37
373	Formation and control of N2O in nitric acid production. *Applied Catalysis B: Environmental*, **2003**, 44, 117-151	21.8	424
372	On the activation of Pt/Al2O3 catalysts in HC-SCR by sintering: determination of redox-active sites using Multitrack. *Applied Catalysis B: Environmental*, **2003**, 46, 687-702	21.8	25
371	Preparation of thin porous titania films on stainless steel substrates for heat exchange (HEX) reactors. *Separation and Purification Technology*, **2003**, 32, 387-395	8.3	14
370	Steam-activated FeMFI zeolites. Evolution of iron species and activity in direct N2O decomposition. *Journal of Catalysis*, **2003**, 214, 33-45	7.3	140
369	Optimization of zeolite Beta by steaming and acid leaching for the acylation of anisole with octanoic acid: a structure□ctivity relation. *Journal of Catalysis*, **2003**, 218, 239-248	7.3	84

368	Gas and liquid distribution in the monolith film flow reactor. *AICHE Journal*, **2003**, 49, 3007-3017	3.6	49
367	A high capacity manganese-based sorbent for regenerative high temperature desulfurization with direct sulfur production: Conceptual process application to coal gas cleaning. *Chemical Engineering Journal*, **2003**, 96, 223-235	14.7	95
366	Is a monolithic loop reactor a viable option for Fischer□ropsch synthesis?. *Chemical Engineering Science*, **2003**, 58, 583-591	4.4	58
365	Science and technology of novel processes for deep desulfurization of oil refinery streams: a review?. *Fuel*, **2003**, 82, 607-631	7.1	1309
364	Using monolithic catalysts for highly selective Fischer□ropsch synthesis. *Catalysis Today*, **2003**, 79-80, 495-501	5.3	51
363	Cracking behavior of organic sulfur compounds under realistic FCC conditions in a microriser reactor. *Applied Catalysis A: General*, **2003**, 238, 223-238	5.1	23
362	Optimized palladium catalyst systems for the selective liquid-phase hydrogenation of functionalyzed alkynes. *Applied Catalysis A: General*, **2003**, 238, 259-271	5.1	64
361	BEA coating of structured supports□erformance in acylation. *Applied Catalysis A: General*, **2003**, 243, 237-250	5.1	67
360	Deactivation of Mo/Al2O3 and NiMo/Al2O3 catalysts during hydrodesulfurization of thiophene. *Applied Catalysis A: General*, **2003**, 251, 85-92	5.1	31
359	The role of the active phase of Raney-type Ni catalysts in the selective hydrogenation of d-glucose to d-sorbitol. *Applied Catalysis A: General*, **2003**, 253, 437-452	5.1	104
358	Three-phase hydrogenation of ?-glucose over a carbon supported ruthenium catalyst□ass transfer and kinetics. *Applied Catalysis A: General*, **2003**, 251, 1-17	5.1	136
357	High-throughput experimentation in catalyst testing and in kinetic studies for heterogeneous catalysis. *Catalysis Today*, **2003**, 81, 457-471	5.3	33
356	Modeling of monolithic and trickle-bed reactors for the hydrogenation of styrene. *Chemical Engineering Science*, **2003**, 58, 1113-1124	4.4	107
355	Aromatic gas oil cracking under realistic FCC conditions in a microriser reactor?. *Fuel*, **2003**, 82, 1559-1569	7.1	51
354	Improvement of Thermal Stability of Porous Titania Films Prepared by Electrostatic Sol-Spray Deposition (ESSD). *Chemistry of Materials*, **2003**, 15, 1283-1288	9.6	22
353	Oil-soaked sintered impactors for the ELPI in diesel particulate measurements. *Journal of Aerosol Science*, **2003**, 34, 635-640	4.3	18
352	MultiTRACK and operando Raman-GC study of oxidative dehydrogenation of propane over alumina-supported vanadium oxide catalysts. *Physical Chemistry Chemical Physics*, **2003**, 5, 4378-4383	3.6	30
351	Catalysis Engineering on Three Levels. *International Journal of Chemical Reactor Engineering*, **2003**, 1,	1.2	1

350	The influence of NOx on soot oxidation rate: molten salt versus platinum. *Applied Catalysis B: Environmental*, **2002**, 35, 159-166	21.8	83
349	Highly active SO2-resistant ex-framework FeMFI catalysts for direct N2O decomposition. *Applied Catalysis B: Environmental*, **2002**, 35, 227-234	21.8	81
348	Direct gas-phase epoxidation of propene over bimetallic Au catalysts. *Catalysis Today*, **2002**, 72, 59-62	5.3	37
347	Supported gold catalysts studied with 197Au M□sbauer effect spectroscopy. *Catalysis Today*, **2002**, 72, 95-100	5.3	11
346	Bench-scale demonstration of an integrated deSoot□deNOx system. *Catalysis Today*, **2002**, 75, 459-464	5.3	8
345	Ex-framework FeZSM-5 for control of N2O in tail-gases. *Catalysis Today*, **2002**, 76, 55-74	5.3	83
344	Gasoline conversion: reactivity towards cracking with equilibrated FCC and ZSM-5 catalysts. *Applied Catalysis A: General*, **2002**, 223, 85-102	5.1	151
343	Synergy effects of ZSM-5 addition in fluid catalytic cracking of hydrotreated flashed distillate. *Applied Catalysis A: General*, **2002**, 223, 103-119	5.1	26
342	A TEOM-MS study on the interaction of N2O with a hydrotalcite-derived multimetallic mixed oxide catalyst. *Applied Catalysis A: General*, **2002**, 225, 87-100	5.1	14
341	Catalyst performance testing. *Applied Catalysis A: General*, **2002**, 227, 321-333	5.1	43
340	Water removal by reactive stripping for a solid-acid catalyzed esterification in a monolithic reactor. *Chemical Engineering Science*, **2002**, 57, 1627-1632	4.4	44
339	Modeling of fast pulse responses in the Multitrack: an advanced TAP reactor. *Chemical Engineering Science*, **2002**, 57, 1835-1847	4.4	19
338	Preparation and characterisation of carbon-coated monoliths for catalyst supports. *Carbon*, **2002**, 40, 1079-1088	10.4	37
337	Preparation of carbon-coated monolithic supports. *Carbon*, **2002**, 40, 1891-1902	10.4	52
336	Catalyst performance testing: bed dilution revisited. *Chemical Engineering Science*, **2002**, 57, 4921-4932	4.4	55
335	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. *Journal of Catalysis*, **2002**, 207, 113-126	7.3	148
334	NO-Assisted N2O Decomposition over Fe-Based Catalysts: Effects of Gas-Phase Composition and Catalyst Constitution. *Journal of Catalysis*, **2002**, 208, 211-223	7.3	121
333	Characterization of ex Situ Presulfided Ni/Al2O3 Catalysts for Pyrolysis Gasoline Hydrogenation. *Journal of Catalysis*, **2002**, 209, 245-255	7.3	21

332	Characterization of Iron Species in Ex-Framework FeZSM-5 by Electrochemical Methods. *Catalysis Letters*, **2002**, 78, 303-312	2.8	10
331	NO Adsorption on Ex-Framework [Fe,X]MFI Catalysts: Novel IR Bands and Evaluation of Assignments. *Catalysis Letters*, **2002**, 80, 129-138	2.8	73
330	Novel method for non-intrusive measurement of velocity and slug length in two- and three-phase slug flow in capillaries. *Measurement Science and Technology*, **2002**, 13, 1540-1544	2	21
329	Flooding Performance of Square Channel Monolith Structures. *Industrial & Engineering Chemistry Research*, **2002**, 41, 6759-6771	3.9	8
328	XPS and M□ssbauer Characterization of Au/TiO2 Propene Epoxidation Catalysts. *Journal of Physical Chemistry B*, **2002**, 106, 9853-9862	3.4	166
327	Process Intensification. *Industrial & Engineering Chemistry Research*, **2002**, 41, 1920-1924	3.9	151
326	Direct N2O decomposition over ex-framework FeMFI catalysts. Role of extra-framework species. *Catalysis Communications*, **2002**, 3, 19-23	3.2	27
325	New non-traditional multiphase catalytic reactors based on monolithic structures. *Catalysis Today*, **2001**, 66, 133-144	5.3	147
324	Monolithic catalysts as more efficient three-phase reactors. *Catalysis Today*, **2001**, 66, 157-165	5.3	58
323	Kinetics of cinnamaldehyde hydrogenation□oncentration dependent selectivity. *Catalysis Today*, **2001**, 66, 381-387	5.3	35
322	Esterification in a structured catalytic reactor with counter-current water removal. *Catalysis Today*, **2001**, 66, 175-181	5.3	33
321	Gas□quid mass transfer of aqueous Taylor flow in monoliths. *Catalysis Today*, **2001**, 69, 51-55	5.3	84
320	Influence of water on fast hydrogenation reactions with monolithic and slurry catalysts. *Catalysis Today*, **2001**, 69, 265-273	5.3	12
319	Influence of channel geometry on hydrodynamics and mass transfer in the monolith film flow reactor. *Catalysis Today*, **2001**, 69, 153-163	5.3	34
318	Preparation and characterisation aspects of carbon-coated monoliths. *Catalysis Today*, **2001**, 69, 357-363	5.3	17
317	Carbon coated monolithic catalysts in the selective oxidation of cyclohexanone. *Catalysis Today*, **2001**, 69, 283-290	5.3	21
316	In situ Fourier transform infrared and laser Raman spectroscopic study of the thermal decomposition of Co□Al and Ni□Al hydrotalcites. *Vibrational Spectroscopy*, **2001**, 27, 75-88	2.1	128
315	Zeolite coated structures for the acylation of aromatics. *Microporous and Mesoporous Materials*, **2001**, 48, 279-284	5.3	52

314	Diffusion of linear and branched C6 alkanes in silicalite-1 studied by the tapered element oscillating microbalance. *Microporous and Mesoporous Materials*, **2001**, 47, 157-171	5.3	55
313	Hydrogenation of nickel and vanadyl tetraphenylporphyrin in absence of a catalyst. *Applied Catalysis A: General*, **2001**, 206, 171-181	5.1	28
312	On the difference between gas- and liquid-phase hydrotreating test reactions. *Applied Catalysis A: General*, **2001**, 207, 25-36	5.1	28
311	Catalyst deactivation: is it predictable?. *Applied Catalysis A: General*, **2001**, 212, 3-16	5.1	586
310	Deactivation of palladium on activated carbon in the selective hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32). *Applied Catalysis A: General*, **2001**, 212, 223-238	5.1	13
309	Monolithic catalysts □non-uniform active phase distribution by impregnation. *Applied Catalysis A: General*, **2001**, 213, 179-187	5.1	82
308	Binary adsorption equilibrium of organics and water on activated carbon. *AICHE Journal*, **2001**, 47, 1885-1892	3.8	32
307	ROTACAT: A Rotating Device Containing a Designed Catalyst for Highly Selective Hydroformylation. *Advanced Synthesis and Catalysis*, **2001**, 343, 201-206	5.6	21
306	Alcothermal Synthesis under Basic Conditions of an SBA-15 with Long-Range Order and Stability. *Advanced Materials*, **2001**, 13, 327-331	24	22
305	Modelling sorption and diffusion in activated carbon: a novel low pressure pulse-response technique. *Carbon*, **2001**, 39, 2113-2130	10.4	12
304	Hydrodynamic aspects of the monolith loop reactor. *Chemical Engineering Science*, **2001**, 56, 805-812	4.4	74
303	Selection and development of a reactor for diesel particulate filtration. *Chemical Engineering Science*, **2001**, 56, 1705-1712	4.4	13
302	Formal reply to letter to the editor □Comments on the modeling of a fore void volume in a TAP reactor□*Chemical Engineering Science*, **2001**, 56, 3927	4.4	
301	Gas and liquid phase distribution and their effect on reactor performance in the monolith film flow reactor. *Chemical Engineering Science*, **2001**, 56, 5935-5944	4.4	50
300	Stability and Selectivity of Au/TiO2 and Au/TiO2/SiO2 Catalysts in Propene Epoxidation: An in Situ FT-IR Study. *Journal of Catalysis*, **2001**, 201, 128-137	7.3	200
299	The Nature of the Active Phase in Sulfided NiW/□Al2O3 in Relation to Its Catalytic Performance in Hydrodesulfurization Reactions. *Journal of Catalysis*, **2001**, 203, 509-515	7.3	31
298	Eurokin. Chemical Reaction Kinetics in Practice. *Cattech*, **2001**, 5, 36-60		103
297	NO-Assisted N2O Decomposition over ex-Framework FeZSM-5: Mechanistic Aspects. *Catalysis Letters*, **2001**, 77, 7-13	2.8	56

296	Deactivation of manganese oxide-based honeycomb monolith catalyst under reaction conditions of ammonia decomposition at high temperature. *Catalysis Today*, **2001**, 69, 253-257	5.3	11
295	Supported honeycomb monolith catalysts for high-temperature ammonia decomposition and H2S removal. *Catalysis Today*, **2001**, 69, 351-356	5.3	24
294	Monolithic catalysts as efficient three-phase reactors. *Chemical Engineering Science*, **2001**, 56, 823-829	4.4	130
293	Mass transfer characteristics of three-phase monolith reactors. *Chemical Engineering Science*, **2001**, 56, 6015-6023	4.4	207
292	On the stability of the thermally decomposed Co-Al hydrotalcite against retrotopotactic transformation. *Materials Research Bulletin*, **2001**, 36, 1767-1775	5.1	50
291	Performance of activated carbon-supported noble metal catalysts in the hydrogenolysis of CCl3F. *Applied Catalysis B: Environmental*, **2001**, 29, 13-22	21.8	13
290	Characterization and performance of Pt-USY in the SCR of NOx with hydrocarbons under lean-burn conditions. *Applied Catalysis B: Environmental*, **2001**, 29, 285-298	21.8	41
289	Comparative study of Pt-based catalysts on different supports in the low-temperature de-NOx-SCR with propene. *Applied Catalysis B: Environmental*, **2001**, 30, 399-408	21.8	64
288	Adsorption of 1,2-Dichloropropane on Activated Carbon. *Journal of Chemical & Engineering Data*, **2001**, 46, 662-664	2.8	7
287	Prediction of the Performance of Coked and Regenerated FCC Catalyst Mixtures. *Studies in Surface Science and Catalysis*, **2001**, 139, 197-204	1.8	2
286	In situ investigation of thethermal decomposition of CoAl hydrotalcite in different atmospheres. *Journal of Materials Chemistry*, **2001**, 11, 821-830		181
285	Equilibrium adsorption of linear and branched C6 alkaneson silicalite-1 studied by the tapered element oscillating microbalance. *Physical Chemistry Chemical Physics*, **2001**, 3, 1755-1761	3.6	67
284	Preparation of monolithic catalysts. *Catalysis Reviews - Science and Engineering*, **2001**, 43, 345-380	12.6	425
283	Science and technology of catalytic diesel particulate filters. *Catalysis Reviews - Science and Engineering*, **2001**, 43, 489-564	12.6	443
282	CARBON-BASED MONOLITHIC STRUCTURES. *Catalysis Reviews - Science and Engineering*, **2001**, 43, 291-314	12.6	65
281	Optimization of Geometric Properties of a Monolithic Catalyst for the Selective Hydrogenation of Phenylacetylene. *Industrial & Engineering Chemistry Research*, **2001**, 40, 2801-2809	3.9	46
280	Restriction for the ELPI in diesel particulate measurements. *Journal of Aerosol Science*, **2001**, 32, 1117-1139	4.9	38
279	A spectroscopic study of the effect of the trivalent cation on the thermal decomposition behaviour of Co-based hydrotalcites. *Journal of Materials Chemistry*, **2001**, 11, 2529-2536		30

278	Synthesis of tailored bimodal mesoporous materials with independent control of the dual pore size distribution. *Chemical Communications*, **2001**, 2670-2671	5.8	77
277	Prediction of the Performance of Coked and Regenerated Fluid Catalytic Cracking Catalyst Mixtures. Opportunities for Process Flexibility. *Industrial & Engineering Chemistry Research*, **2001**, 40, 1602-1607	3.9	6
276	Design of an Industrial Adsorption Process with Activated Carbon for the Removal of Hexafluoropropylene from Wet Air. *Industrial & Engineering Chemistry Research*, **2001**, 40, 3171-3180	3.9	7
275	A Rotating Adsorber for Multistage Cyclic Processes: Principle and Experimental Demonstration in the Separation of Paraffins. *Industrial & Engineering Chemistry Research*, **2001**, 40, 357-363	3.9	12
274	One-component permeation maximum: Diagnostic tool for silicalite-1 membranes?. *AICHE Journal*, **2000**, 46, 1096-1100	3.6	36
273	Selective hydrogenolysis of CCl2F2 into CH2F2 over palladium on activated carbon. *Catalysis Today*, **2000**, 59, 221-230	5.3	17
272	Diffusivities of light alkanes in a silicalite-1 membrane layer. *Microporous and Mesoporous Materials*, **2000**, 35-36, 267-281	5.3	36
271	Comments on Infrared emission spectroscopic studies of the thermal transformation of Mg-, Ni- and Co-hydrotalcite catalysts [Appl. Catal. A: Gen. 184 (1999) 61–71]. *Applied Catalysis A: General*, **2000**, 204, 265-267	5.1	9
270	The direct epoxidation of propene by molten salts. *Applied Catalysis A: General*, **2000**, 196, 217-224	5.1	21
269	Improved estimation of zeolite diffusion coefficients from zero-length column experiments. *Chemical Engineering Science*, **2000**, 55, 51-65	4.4	34
268	The generalized Maxwell–Stefan model for diffusion in zeolites:: sorbate molecules with different saturation loadings. *Chemical Engineering Science*, **2000**, 55, 2923-2930	4.4	195
267	The six-flow reactor technology A review on fast catalyst screening and kinetic studies. *Catalysis Today*, **2000**, 60, 93-109	5.3	159
266	Development of a palladium on activated carbon for a conceptual process in the selective hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32). *Catalysis Today*, **2000**, 55, 125-137	5.3	31
265	Realistic contact for soot with an oxidation catalyst for laboratory studies. *Applied Catalysis B: Environmental*, **2000**, 28, 253-257	21.8	161
264	Dual-bed catalytic system for NOx–N2O removal: a practical application for lean-burn deNOx HC-SCR. *Applied Catalysis B: Environmental*, **2000**, 25, 191-203	21.8	39
263	Reduction of NO by Propene Over Pt, Pd and Rh-Based ZSM-5 Under Lean-Burn Conditions. *Reaction Kinetics and Catalysis Letters*, **2000**, 69, 385-392		3
262	Equilibrium Adsorption of Light Alkanes in Silicalite-1 by the Inertial Microbalance Technique. *Adsorption*, **2000**, 6, 159-167	2.6	36
261	Structured catalysts for the acylation of aromatics. *Topics in Catalysis*, **2000**, 13, 275-280	2.3	14

260	Effect of the Support in de-NOx HC-SCR Over Transition Metal Catalysts. *Reaction Kinetics and Catalysis Letters*, **2000**, 70, 199-206		6
259	Highly Active and Stable Pt-USY in the Low-Temperature de-NOx HC-SCR. *Reaction Kinetics and Catalysis Letters*, **2000**, 71, 33-40		
258	Stability of highly dispersed Ni/AlO catalysts: Effects of pretreatment. *Journal of Catalysis*, **2000**, 192, 432-440	7.3	110
257	Deactivation of MoS2/Al2O3 in Thiophene Hydrodesulfurization: An Infrared Spectroscopic Analysis by Adsorbed CO. *Journal of Catalysis*, **2000**, 196, 95-103	7.3	34
256	Characterization of the Active Phase in NiW/Al2O3 Catalysts in Various Stages of Sulfidation with FTIR(NO) and XPS. *Journal of Catalysis*, **2000**, 196, 315-329	7.3	61
255	Adsorption of light alkanes on silicalite-1: Reconciliation of experimental data and molecular simulations. *Physical Chemistry Chemical Physics*, **2000**, 2, 1989-1995	3.6	60
254	Selective adsorption of unsaturated linear C4 molecules on the all-silica DD3R. *Physical Chemistry Chemical Physics*, **2000**, 2, 1773-1779	3.6	48
253	Feature Article. *Green Chemistry*, **2000**, 2, G97-G100	10	3
252	Shape Selectivity in Adsorption on the All-Silica DD3R. *Langmuir*, **2000**, 16, 3322-3329	4	107
251	Application of a silicalite-1 membrane reactor in metathesis reactions. *Applied Catalysis A: General*, **1999**, 178, 225-241	5.1	46
250	Characterisation of alumina- and silica-supported vanadium sulphide catalysts and their performance in hydrotreating reactions. *Applied Catalysis A: General*, **1999**, 179, 229-239	5.1	20
249	Synthesis and thermal stability of Ni, Cu, Co, and Mo catalysts based on high surface area silicon carbide. *Applied Catalysis A: General*, **1999**, 184, 127-141	5.1	37
248	The influence of NOx on the oxidation of metal activated diesel soot. *Catalysis Today*, **1999**, 53, 623-630	5.3	78
247	The sulfidation mechanism of NiW/Al2O3 as a function of the calcination temperature studied with and temperature programmed sulfidation. *Fuel Processing Technology*, **1999**, 61, 43-54	7.2	18
246	Testing and characterisation of Pt/ASA for deep HDS reactions. *Fuel Processing Technology*, **1999**, 61, 117-131	7.2	27
245	Catalysts for second-stage deep hydrodesulfurisation of gas oils. *Fuel Processing Technology*, **1999**, 61, 133-147	7.2	60
244	Fluid catalytic cracking (FCC): activity in the (milli)seconds range in an entrained flow reactor. *Applied Catalysis A: General*, **1999**, 187, 3-12	5.1	28
243	Applicability of supercritical water as a reaction medium for desulfurisation and demetallisation of gasoil. *Fuel Processing Technology*, **1999**, 61, 265-277	7.2	29

242	Modeling of the transient sorption and diffusion processes in microporous materials at low pressure. *Catalysis Today*, **1999**, 53, 189-205	5.3	33
241	Ceramic foam as a potential molten salt oxidation catalyst support in the removal of soot from diesel exhaust gas. *Catalysis Today*, **1999**, 53, 613-621	5.3	53
240	Transport and separation properties of a silicalite-1 membrane. Variable separation factor. *Chemical Engineering Science*, **1999**, 54, 259-269	4.4	58
239	Permeation of weakly adsorbing components through a silicalite-1 membrane. *Chemical Engineering Science*, **1999**, 54, 1081-1092	4.4	70
238	Monolithic Reactors for Fine Chemicals Industries: A Comparative Analysis of a Monolithic Reactor and a Mechanically Agitated Slurry Reactor. *Chemical Engineering Science*, **1999**, 54, 2351-2358	4.4	53
237	Hydrodynamics and mass transfer issues in a countercurrent gas-liquid internally finned monolith reactor. *Chemical Engineering Science*, **1999**, 54, 2381-2389	4.4	27
236	Application of a zeolite membrane reactor in the metathesis of propene. *Chemical Engineering Science*, **1999**, 54, 1441-1445	4.4	44
235	Potentials of internally finned monoliths as a packing for multifunctional reactors. *Chemical Engineering Science*, **1999**, 54, 1359-1365	4.4	23
234	A DRIFTS study of the interaction of alkali metal oxides with carbonaceous surfaces. *Carbon*, **1999**, 37, 401-410	10.4	22
233	The development of nitrogen functionality in model chars during gasification in CO2 and O2. *Carbon*, **1999**, 37, 1143-1150	10.4	323
232	Transport and separation properties of a silicalite-1 membrane Operating conditions. *Chemical Engineering Science*, **1999**, 54, 245-258	4.4	67
231	Measurement and modeling of the transient adsorption, desorption and diffusion processes in microporous materials. *Chemical Engineering Science*, **1999**, 54, 4423-4436	4.4	57
230	A numerical comparison of alternative three-phase reactors with a conventional trickle-bed reactor. The advantages of countercurrent flow for hydrodesulfurization. *Chemical Engineering Science*, **1999**, 54, 4791-4799	4.4	48
229	Gasquid mass transfer in an internally finned monolith operated countercurrently in the film flow regime. *Chemical Engineering Science*, **1999**, 54, 5119-5125	4.4	13
228	High activity and stability of the Rh-free Co-based ex-hydrotalcite containing Pd in the catalytic decomposition of N2O. *Catalysis Letters*, **1999**, 60, 133-138	2.8	55
227	Preparation of carbon-coated alumina by pyrolysis of adsorbed acetylacetone. *Mendeleev Communications*, **1999**, 9, 95-96	1.9	11
226	Influence of Nox on soot combustion with supported molten salt catalysts. *Reaction Kinetics and Catalysis Letters*, **1999**, 67, 3-7		7
225	The potential of supported molten salts in the removal of soot from diesel exhaust gas. *Applied Catalysis B: Environmental*, **1999**, 21, 51-61	21.8	51

224	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	21.8	90
223	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	21.8	77
222	Modeling permeation of binary mixtures through zeolite membranes. *AICHE Journal*, **1999**, 45, 497-511	3.6	172
221	Binary permeation through a silicalite-1 membrane. *AICHE Journal*, **1999**, 45, 976-985	3.6	76
220	XPS characterization of carbon-coated alumina support. *Surface and Interface Analysis*, **1999**, 27, 911-914	1.5	16
219	Direct Epoxidation of Propene Using Gold Dispersed on TS-1 and Other Titanium-Containing Supports. *Industrial & Engineering Chemistry Research*, **1999**, 38, 884-891	3.9	232
218	Catalyst deactivation in the selective hydrogenolysis of CCl2F2 into CH2F2. *Studies in Surface Science and Catalysis*, **1999**, 126, 349-356	1.8	0
217	The formation of carbon surface oxygen complexes by oxygen and ozone. The effect of transition metal oxides. *Carbon*, **1998**, 36, 1269-1276	10.4	92
216	Catalytic oxidation of carbon black--I. Activity of catalysts and classification of oxidation profiles. *Fuel*, **1998**, 77, 111-119	7.1	81
215	Competitive effects of hetero-atom containing compounds in the hydrodemetallisation of vanadyl-tetraphenyl-porphyrin. *Fuel*, **1998**, 77, 1367-1375	7.1	6
214	Novel monolithic stirred reactor. *AICHE Journal*, **1998**, 44, 2459-2464	3.6	46
213	Comparison of the Performance of Activated Carbon-Supported Noble Metal Catalysts in the Hydrogenolysis of CCl2F2. *Journal of Catalysis*, **1998**, 177, 29-39	7.3	97
212	Transition Metal Oxide Catalyzed Carbon Black Oxidation: A Study with18O2. *Journal of Catalysis*, **1998**, 179, 258-266	7.3	83
211	The Evolution of Surface Species in NiW/Al2O3Catalysts in Various Stages of Sulfidation: A Quasiin-SituHigh Resolution Transmission Electron Microscopic Investigation. *Journal of Catalysis*, **1998**, 179, 443-450	7.3	56
210	Selection of activated carbon for the selective hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32) over palladium-supported catalysts. *Applied Catalysis A: General*, **1998**, 173, 161-173	5.1	47
209	The effect of NOx and CO on the rate of transition metal oxide catalyzed carbon black oxidation: An exploratory study. *Applied Catalysis B: Environmental*, **1998**, 17, 205-220	21.8	42
208	Development of a satisfactory palladium on activated carbon catalyst for the selective hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32). *Journal of Molecular Catalysis A*, **1998**, 134, 191-200		26
207	The Delft silicalite-1 membrane: peculiar permeation and counter-intuitive separation phenomena. *Journal of Molecular Catalysis A*, **1998**, 134, 201-208		11

206	Zeolitic coatings and their potential use in catalysis. *Microporous and Mesoporous Materials*, **1998**, 21, 213-226	5.3	141
205	High surface area silicon carbide as catalyst support characterization and stability. *Applied Catalysis A: General*, **1998**, 167, 321-330	5.1	118
204	Coke formation in fluid catalytic cracking studied with the microriser. *Catalysis Today*, **1998**, 46, 27-35	5.3	35
203	A versatile infrared cell for in situ catalyst pretreatment and measurements at temperatures between 120 and 773 K. *Vibrational Spectroscopy*, **1998**, 16, 119-126	2.1	4
202	Methodological and operational aspects of permeation measurements on silicalite-1 membranes. *Journal of Membrane Science*, **1998**, 144, 87-104	9.6	110
201	TEOM: A Unique Technique for Measuring Adsorption Properties. Light Alkanes in Silicalite-1. *Industrial & Engineering Chemistry Research*, **1998**, 37, 1934-1942	3.9	146
200	Effect of Entrance and Exit Geometry on Pressure Drop and Flooding Limits in a Single Channel of an Internally Finned Monolith. *Industrial & Engineering Chemistry Research*, **1998**, 37, 3722-3730	3.9	7
199	Effect of Operating Conditions and Membrane Quality on the Separation Performance of Composite Silicalite-1 Membranes. *Industrial & Engineering Chemistry Research*, **1998**, 37, 4071-4083	3.9	132
198	Adsorption of Linear and Branched Alkanes in the Zeolite Silicalite-1. *Journal of the American Chemical Society*, **1998**, 120, 5599-5600	16.4	145
197	Catalytic oxidation of model soot by chlorine based catalysts. *Studies in Surface Science and Catalysis*, **1998**, 116, 645-654	1.8	7
196	Potential of Monolithic Reactors in Catalysis; Multiphase Applications. *Materials Research Society Symposia Proceedings*, **1998**, 549, 3		1
195	Carbon coating of ceramic monolithic substrates. *Studies in Surface Science and Catalysis*, **1998**, 118, 175-183	1.8	23
194	On the metal deposition process during the hydrodemetallation of vanadyl-tetraphenylporphyrin. *Studies in Surface Science and Catalysis*, **1997**, 111, 283-294	1.8	6
193	Kinetics of the oxidation of diesel soot. *Fuel*, **1997**, 76, 1129-1136	7.1	220
192	XPS studies of MoO3/Al2O3 and MoO3/SiO2 systems. *Applied Surface Science*, **1997**, 119, 11-18	6.7	47
191	Feasibility study towards a Cu/K/Mo/(Cl) soot oxidation catalyst for application in diesel exhaust gases. *Applied Catalysis B: Environmental*, **1997**, 11, 365-382	21.8	42
190	Catalysts for the oxidation of soot from diesel exhaust gases II. Contact between soot and catalyst under practical conditions. *Applied Catalysis B: Environmental*, **1997**, 12, 21-31	21.8	193
189	Catalytic oxidation of model soot by metal chlorides. *Applied Catalysis B: Environmental*, **1997**, 12, 33-47	21.8	89

188	Preparation, characterization and testing of nickel on alumina monolithic catalysts. *Reaction Kinetics and Catalysis Letters*, **1997**, 60, 339-349		7
187	Kinetic Analysis of the Decomposition of Nitrous Oxide over ZSM-5 Catalysts. *Journal of Catalysis*, **1997**, 167, 256-265	7.3	190
186	Selective hydrogenation of styrene/1-octene mixtures over a monolithic Pd catalyst. *Reaction Kinetics and Catalysis Letters*, **1997**, 60, 351-356		9
185	Mathematical treatment of transient kinetic data: Combination of parameter estimation with solving the related partial differential equations. *Applied Catalysis A: General*, **1997**, 151, 27-57	5.1	56
184	Carbon monoxide oxidation over platinum powder: A comparison of TAP and step-response experiments. *Applied Catalysis A: General*, **1997**, 151, 247-266	5.1	17
183	Palladium black as model catalyst in the hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32). *Applied Catalysis A: General*, **1997**, 155, 59-73	5.1	70
182	Synthesis of high surface area silicon carbide by fluidized bed chemical vapour deposition. *Applied Catalysis A: General*, **1997**, 162, 181-191	5.1	22
181	New insight in the platinum-catalyzed CO oxidation kinetic mechanism by using an advanced TAP reactor system. *Applied Catalysis A: General*, **1997**, 164, 237-249	5.1	19
180	A radiotracer method for measuring the rate of metal volatilisation losses from catalysts. *Applied Radiation and Isotopes*, **1997**, 48, 1521-1524	1.7	2
179	Catalyst development for the selective hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32). *Catalysis Today*, **1997**, 35, 163-170	5.3	47
178	Role of the support nature in chemisorption of Ni(acac)2 on the surface of silica and alumina. *Applied Surface Science*, **1997**, 115, 267-272	6.7	28
177	Stability of Oriented Silicalite-1 Films in View of Zeolite Membrane Preparation. *Zeolites*, **1997**, 19, 13-20		100
176	Temperature dependence of one-component permeation through a silicalite-1 membrane. *AICHE Journal*, **1997**, 43, 2203-2214	3.6	236
175	NO Reduction over Alumina-Supported Cu and Cu□r Studied with the Step□Response Method. *Journal of Catalysis*, **1997**, 170, 168-180	7.3	9
174	Nickel-Catalyzed Conversion of Activated Carbon Extrudates into High Surface Area Silicon Carbide by Reactive Chemical Vapour Deposition. *Journal of Catalysis*, **1997**, 170, 311-324	7.3	13
173	Effect of the adsorption isotherm on one- and two-component diffusion in activated carbon. *Carbon*, **1997**, 35, 1415-1425	10.4	12
172	Bridging the gap between macroscopic and NMR diffusivities. *Chemical Engineering Science*, **1997**, 52, 3401-3404	4.4	49
171	Hydrodynamics of gas-liquid countercurrent flow in internally finned monolithic structures. *Chemical Engineering Science*, **1997**, 52, 3893-3899	4.4	17

170	Decomposition of nitrous oxide over ZSM-5 catalysts. *Studies in Surface Science and Catalysis*, **1996**, 641-650	1.8	30
169	Sorbent development for continuous regenerative H2S removal in a rotating monolith reactor. *Canadian Journal of Chemical Engineering*, **1996**, 74, 713-718	2.3	12
168	Catalysts for the oxidation of soot from diesel exhaust gases. I. An exploratory study. *Applied Catalysis B: Environmental*, **1996**, 8, 57-78	21.8	317
167	Heterogeneous catalytic decomposition of nitrous oxide. *Applied Catalysis B: Environmental*, **1996**, 9, 25-64	21.8	742
166	Diesel particulate emission control. *Fuel Processing Technology*, **1996**, 47, 1-69	7.2	289
165	Coating of activated carbon with silicon carbide by chemical vapour deposition. *Carbon*, **1996**, 34, 567-579	20.4	26
164	Short contact time experiments in a novel benchscale FCC riser reactor. *Chemical Engineering Science*, **1996**, 51, 3039-3044	4.4	15
163	Fuel□as injection to reduce N2O emissions from the combustion of coal in a fluidized bed. *Combustion and Flame*, **1996**, 107, 103-113	5.3	6
162	Selective three-phase hydrogenation of unsaturated hydrocarbons in a monolithic reactor. *Chemical Engineering Science*, **1996**, 51, 3019-3025	4.4	34
161	Process for the selective hydrogenolysis of CCl2F2 (CFC-12) into CH2F2 (HFC-32). *Catalysis Today*, **1996**, 27, 257-264	5.3	57
160	Monolithic catalysts for selective hydrogenation of benzaldehyde. *Catalysis Today*, **1996**, 30, 91-97	5.3	16
159	Permeation characteristics of a metal-supported silicalite-1 zeolite membrane. *Journal of Membrane Science*, **1996**, 117, 57-78	9.6	261
158	Metal oxides as catalysts for the oxidation of soot. *The Chemical Engineering Journal and the Biochemical Engineering Journal*, **1996**, 64, 295-302		32
157	The effects of heat and mass transfer in thermogravimetrical analysis. A case study towards the catalytic oxidation of soot. *Thermochimica Acta*, **1996**, 287, 261-278	2.9	71
156	Mechanistic study of the selective hydrogenolysis of CCI2F2 (CFC-12) into CH2F2 (HFC-32) over palladium on activated carbon. *Recueil Des Travaux Chimiques Des Pays-Bas*, **1996**, 115, 505-510		23
155	Investigation of MoS2 on □Al2O3 by HREM with atomic resolution. *Journal of Molecular Catalysis A*, **1995**, 102, 147-161		48
154	Permeation and separation of light hydrocarbons through a silicalite-1 membrane. *The Chemical Engineering Journal and the Biochemical Engineering Journal*, **1995**, 57, 145-153		17
153	Permeation and separation behaviour of a silicalite-1 membrane. *Catalysis Today*, **1995**, 25, 213-218	5.3	91

152	Soot oxidation catalyzed by a Cu/K/Mo/Cl catalyst: evaluation of the chemistry and performance of the catalyst. *Applied Catalysis B: Environmental*, **1995**, 6, 339-352	21.8	117
151	Temperature-Programmed Reduction and HDS Activity of Sulfided Transition Metal Catalysts: Formation of Nonstoichiometric Sulfur. *Journal of Catalysis*, **1995**, 151, 178-191	7.3	82
150	Temperature-Programmed Sulfiding of Vanadium Oxides and Alumina-Supported Vanadium Oxide Catalysts. *Journal of Catalysis*, **1995**, 154, 115-123	7.3	8
149	Novel application of catalysis in the synthesis of catalysts. *Catalysis Letters*, **1995**, 34, 285-291	2.8	12
148	Hydrodemetalization Kinetics of Nickel Tetraphenylporphyrin over Mo/Al2O3 Catalysts. *Industrial & Engineering Chemistry Research*, **1995**, 34, 3801-3807	3.9	13
147	Trade-Off Between NOx and N2O in Fluidized-Bed Combustion of Coals. *Energy & Fuels*, **1995**, 9, 743-752	4.1	28
146	Catalytic oxidation of diesel soot: Catalyst development. *Studies in Surface Science and Catalysis*, **1995**, 549-561	1.8	16
145	Gas injection as a measure to reduce N2O emissions from fluidized bed combustion of coal. *Coal Science and Technology*, **1995**, 24, 1915-1918		1
144	The fate of nitrogen functionalities in coal during pyrolysis and combustion. *Fuel*, **1995**, 74, 507-516	7.1	152
143	Towards a unified theory of reactions of carbon with oxygen-containing molecules. *Carbon*, **1995**, 33, 1155-1165	10.4	187
142	Estimation of kinetic parameters from non-isothermally operated monolithic reactors: Oxidation of carbon monoxide. *Chemical Engineering Science*, **1995**, 50, 2845-2852	4.4	2
141	Analysis of mass and heat transfer in transient experiments over heterogeneous catalysts. *Chemical Engineering Science*, **1995**, 50, 3573-3580	4.4	63
140	Evolution of nitrogen functionalities in carbonaceous materials during pyrolysis. *Carbon*, **1995**, 33, 1641-1653	10.4	1631
139	Selective catalytic reduction of no with NH3 over activated carbons. I: Effect of origin and activation procedure on activity. *Carbon*, **1994**, 32, 897-904	10.4	17
138	On why do different carbons show different gasification rates: A transient isotopic CO2 gasification study. *Carbon*, **1994**, 32, 1223-1231	10.4	28
137	Modelling of heat transfer in metallic monoliths consisting of sinusoidal cells. *Chemical Engineering Science*, **1994**, 49, 19-27	4.4	40
136	NO and N2O decomposition over coal char at fluidized-bed combustion conditions. *Combustion and Flame*, **1994**, 99, 499-507	5.3	82
135	Kinetics of the alkali-carbonate catalysed gasification of carbon: 3. H2O gasification. *Fuel*, **1994**, 73, 723-730	7.1	40

134	N2O emission control in coal combustion. *Fuel*, **1994**, 73, 1416-1422	7.1	41
133	A transient kinetic study of carbon monoxide oxidation over copper-based catalysts for automotive pollution control. *Catalysis Today*, **1994**, 20, 409-422	5.3	22
132	Hydrodemetallisation of nickel-5,10,15,20-tetraphenylporphyrin over sulphided Mo/Al2O3: initial catalyst deactivation. *Applied Catalysis A: General*, **1994**, 108, 171-186	5.1	10
131	Temperature- and occupancy-dependent diffusion of n-butane through a silicalite-1 membrane. *Microporous Materials*, **1994**, 3, 227-234		68
130	Better sulphide catalysts through optimized active phase-support interaction. *International Journal of Energy Research*, **1994**, 18, 127-143	4.5	1
129	On the Nature and Formation of the Active Sites in Re2O7 Metathesis Catalysts Supported on Borated Alumina. *Journal of Catalysis*, **1994**, 145, 416-428	7.3	40
128	Temperature-Programmed Reduction of Oxidic and Sulfidic Alumina-Supported NiO, WO3, and NiO-WO3 Catalysts. *Journal of Catalysis*, **1994**, 146, 437-448	7.3	76
127	Alumina-Supported Manganese Oxide Catalysts. *Journal of Catalysis*, **1994**, 150, 94-104	7.3	358
126	Alumina-Supported Manganese Oxide Catalysts. *Journal of Catalysis*, **1994**, 150, 105-116	7.3	128
125	Activity and selectivity of pure manganese oxides in the selective catalytic reduction of nitric oxide with ammonia. *Applied Catalysis B: Environmental*, **1994**, 3, 173-189	21.8	548
124	Monoliths in Heterogeneous Catalysis. *Catalysis Reviews - Science and Engineering*, **1994**, 36, 179-270	12.6	362
123	Evaluation of Isothermal Chemical Vapor Infiltration with Langmuir-Hinshelwood Type Kinetics. *Journal of the Electrochemical Society*, **1994**, 141, 282-290	3.9	9
122	Nitric oxide reduction and carbon monoxide oxidation over carbon-supported copper-chromium catalysts. *Applied Catalysis B: Environmental*, **1993**, 2, 257-275	21.8	58
121	A new surface oxygen complex on carbon: toward a unified mechanism for carbon gasification reactions. *Industrial & Engineering Chemistry Research*, **1993**, 32, 2835-2840	3.9	124
120	Temperature programmed sulfiding of commercial cobalt oxide-molybdenum oxide (CoO-MoO3)/alumina catalysts. *Industrial & Engineering Chemistry Research*, **1993**, 32, 1818-1821	3.9	19
119	High temperature hydrogen sulfide and carbonyl sulfide removal with manganese oxide (MnO) and iron oxide (FeO) on .gamma.-alumina acceptors. *Industrial & Engineering Chemistry Research*, **1993**, 32, 139-149	3.9	80
118	Kinetics of the selective catalytic reduction of nitrogen oxide (NO) with ammonia over manganese oxide (Mn2O3)-tungsten oxide (WO3)/.gamma.-alumina. *Industrial & Engineering Chemistry Research*, **1993**, 32, 445-452	3.9	62
117	Modified activated carbons for the selective catalytic reduction of NO with NH3. *Carbon*, **1993**, 31, 213-222	2.4	81

116	Rank dependence of N2O emission in fluidized-bed combustion of coal. *Fuel*, **1993**, 72, 373-379	7.1	76
115	Steam gasification kinetics and burn-off behaviour for a bituminous coal derived char in the presence of H2. *Fuel Processing Technology*, **1993**, 36, 235-242	7.2	20
114	Anomalous carbon dioxide gasification behaviour of high temperature coal chars. *Fuel Processing Technology*, **1993**, 36, 243-250	7.2	7
113	Combustion of coal as a source of N2O emission. *Fuel Processing Technology*, **1993**, 34, 1-71	7.2	157
112	High vacuum cell for high temperature in-situ infrared studies of heterogeneous catalysts. *Vibrational Spectroscopy*, **1993**, 4, 245-250	2.1	6
111	Alternatives to Noble Metal Catalysts for Automotive Exhaust Purification. *Catalysis Today*, **1993**, 16, 273-287	5.3	63
110	A model of coke on hydrotreating catalysts under reaction conditions. *Fuel Processing Technology*, **1993**, 35, 275-287	7.2	11
109	High-temperature stainless steel supported zeolite (MFI) membranes: Preparation, module construction, and permeation experiments. *Microporous Materials*, **1993**, 1, 131-147		166
108	Alumina supported manganese oxides for the low-temperature selective catalytic reduction of nitric oxide with ammonia. *Applied Catalysis B: Environmental*, **1992**, 1, 297-316	21.8	202
107	Temperature-programmed gasification of the coke on spent hydrotreating catalysts with oxygen and hydrogen. *Industrial & Engineering Chemistry Research*, **1992**, 31, 101-107	3.9	22
106	Transient kinetic techniques for detailed insight in gas-solid reactions. *Energy & Fuels*, **1992**, 6, 494-497	4.1	27
105	In situ FTIR study of copper–chromium oxide catalysts in CO oxidation. *Journal of Molecular Catalysis*, **1992**, 74, 193-205		25
104	Comparison of the sulfiding rate and mechanism of supported NiO and Ni0 particles. *Journal of Catalysis*, **1992**, 137, 92-101	7.3	24
103	Methane formation in H2,CO mixtures over carbon-supported potassium carbonate. *Journal of Catalysis*, **1992**, 134, 525-535	7.3	5
102	Stability of carbon-supported catalysts in an oxidizing environment. *Carbon*, **1992**, 30, 577-585	10.4	17
101	Parametric study of N2O formation in coal combustion. *Fuel*, **1992**, 71, 9-14	7.1	25
100	Kinetics of the CO oxidation by O2 and N2O over Cu-Cr/Al2O3. *AICHE Journal*, **1992**, 38, 385-396	3.6	27
99	Numerical Simulation of the Generalized Maxwell-Stefan Model for Multicomponent Diffusion in Microporous Sorbents. *Collection of Czechoslovak Chemical Communications*, **1992**, 57, 687-697		8

98	An exploratory study of the processing of plastics, by means of pyrolysis, with the emphasis on PVC/aluminum combinations. *Journal of Analytical and Applied Pyrolysis*, **1991**, 20, 321-336	6	12
97	Catalyst loss and retention during alkali-catalysed carbon gasification in CO2. *Carbon*, **1991**, 29, 929-941	10.4	40
96	The interaction of H2O, CO2, H2 and CO with the alkali-carbonate/carbon system: a thermogravimetric study. *Fuel*, **1991**, 70, 205-214	7.1	24
95	Burn-off behaviour in alkali-catalysed CO2 gasification of bituminous coal char: A comparison of TGA and fixed-bed reactor. *Fuel Processing Technology*, **1991**, 28, 5-17	7.2	9
94	Catalytic Automotive Pollution Control Without Noble Metals. *Studies in Surface Science and Catalysis*, **1991**, 71, 353-369	1.8	6
93	Kinetics of the alkali-metal-carbonate-catalyzed gasification of carbon. 2. The water-gas-shift reaction. *Industrial & Engineering Chemistry Research*, **1991**, 30, 1760-1770	3.9	7
92	Influence of phosphate on the structure of sulfided alumina supported cobalt-molybdenum catalysts. *Applied Catalysis*, **1991**, 68, 161-177		29
91	A temperature-programmed sulfiding study of NiO$z.sbnd;3/Al2O3 catalysts. *Journal of Catalysis*, **1990**, 121, 18-30	7.3	96
90	A temperature-programmed reduction study of sulfided Co$z.sbnd;Mo/Al2O3 hydrodesulfurization catalysts. *Journal of Catalysis*, **1990**, 121, 31-46	7.3	97
89	High temperature gasification of coal under severely product inhibited conditions: the potential of catalysis. *Fuel*, **1990**, 69, 846-850	7.1	7
88	Extraction of spent hydrotreating catalysts studied by fourier transform infra-red spectroscopy. *Fuel Processing Technology*, **1990**, 26, 39-51	7.2	18
87	The characterization of fly-chars from coal combustion; the effect of temperature and rank on reactivity, texture and composition. *Fuel Processing Technology*, **1990**, 24, 391-398	7.2	
86	The potential of coal gasification in a novel iron oxide reduction process. *Chemical Engineering Science*, **1990**, 45, 2721-2728	4.4	4
85	High temperature gasification reactivity of coal under severely product inhibited conditions. *Fuel Processing Technology*, **1990**, 24, 269-276	7.2	3
84	Correlation between Raman spectroscopic data and the temperature-programmed oxidation reactivity of coals and carbons. *Fuel Processing Technology*, **1990**, 24, 407-413	7.2	49
83	Raman spectra of chromium oxide species in CrO3/Al2O3 catalysts. *Journal of Molecular Catalysis*, **1990**, 60, 83-98		62
82	Selective catalytic reduction of NO with NH3 over carbon supported copper catalysts.. *Catalysis Today*, **1990**, 7, 157-165	5.3	69
81	High-resolution Electron Microscopy of Spent Ni-Mo/Al203 Hydrotreating Catalysts. *Applied Catalysis*, **1990**, 63, 77-90		29

80	Structure of phosphorus containing CoOMoO3/Al2O3 catalysts. *Applied Catalysis*, **1990**, 61, 99-122		65
79	Influence of phosphorus on the structure and the catalytic activity of sulfided carbon-supported CoMo catalysts. *Applied Catalysis*, **1990**, 67, 119-139		9
78	Analytical curie-point pyrolysis-gas chromatography as a tool to characterize key parameters relevant to coal reactivity. *Journal of Analytical and Applied Pyrolysis*, **1989**, 15, 319-331	6	6
77	Characterization of carbon deposits on used hydrotreating catalysts by curie-point pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **1989**, 15, 333-345	6	8
76	Characterization of coal pyrolysis by means of differential scanning calorimetry. 2. Quantitative heat effects in a H2 and in a CO2 atmosphere. *Fuel Processing Technology*, **1989**, 23, 63-74	7.2	13
75	Quantitative heat effects associated with pyrolysis of coals, ranging from anthracite to lignite. *Fuel*, **1989**, 68, 999-1004	7.1	26
74	Temperature-programmed reduction of NiOWO3/Al2O3 Hydrodesulphurization catalysts. *Applied Catalysis*, **1989**, 46, 11-30		247
73	Thiophene hydrodesulphurization activity of alumina-, silica- and carbon-supported sulphided Re2O7 catalysts. *Applied Catalysis*, **1989**, 48, 241-252		26
72	Novel type of carbon-supported catalysts: I. Preparation and characterization. *Applied Catalysis*, **1989**, 48, 253-264		9
71	Novel type of carbon-supported catalysts. *Applied Catalysis*, **1989**, 49, 319-327		6
70	Characterization of alkali carbonate catalysts for carbon gasification with 18O labeled CO2. *Carbon*, **1988**, 26, 41-48	10.4	14
69	Gas phase pyrolysis of coal-related aromatic compounds in a coiled tube flow reactor. *Fuel*, **1988**, 67, 334-340	7.1	110
68	The pyrolytic formation of polycyclic aromatic hydrocarbons from benzene, toluene, ethylbenze,e, styrene, phenylacetylene and n-decane in relation to fossil fuels utilization. *Fuel Processing Technology*, **1988**, 18, 213-236	7.2	41
67	Measurement of C,H,N-release from coals during pyrolysis: Implications for combustion. *Fuel*, **1988**, 67, 1190-1196	7.1	7
66	Structure and activity of rhenium-based metathesis catalysts. *Journal of Molecular Catalysis*, **1988**, 46, 1-14		52
65	Sulfidability and hydrodesulfurization activity of Mo catalysts supported on alumina, silica, and carbon. *Journal of Catalysis*, **1988**, 112, 516-527	7.3	80
64	Gas phase pyrolysis of coal-related aromatic compounds in a coiled tube flow reactor. *Fuel*, **1988**, 67, 327-333	7.1	65
63	Slow and Rapid Pyrolysis of Coal **1988**, 305-338		12

62	Coal Characterization by Means of Curie-Point Pyrolysis Techniques **1988**, 241-269		5
61	Characterization of coal pyrolysis by means of differential scanning calorimetry. 1. Quantitative heat effects in an inert atmosphere. *Fuel Processing Technology*, **1987**, 15, 45-57	7.2	16
60	CO2 step-response experiments during alkali catalyzed carbon gasification; evaluation of the so-called CO overshoot. *Carbon*, **1987**, 25, 351-359	10.4	22
59	Effect of the support on the structure of Mo-based hydrodesulfurization catalysts: Activated carbon versus alumina*1. *Journal of Catalysis*, **1987**, 105, 277-284	7.3	108
58	Alkali-catalyzed carbon gasification in CO/CO2 mixtures: An extended model for the oxygen exchange and gasification reaction. *Journal of Catalysis*, **1987**, 107, 173-180	7.3	35
57	Kinetics of the alkali carbonate catalysed gasification of carbon. *Fuel*, **1986**, 65, 1371-1376	7.1	47
56	Characterization of carbon deposits on alumina supported cobalt and nickel by temperature programmed gasification with O2, CO2 and H2. *Fuel*, **1986**, 65, 1383-1387	7.1	13
55	The thermoplasticity of coal and the effect of K2CO3 addition in relation to the reactivity of the char in gasification. *Fuel*, **1986**, 65, 1450-1456	7.1	10
54	Probing the influence of K2CO3- and Na2CO3-addition on the flash pyrolysis of a lignite and a bituminous coal with Curie-point pyrolysis techniques. *Fuel*, **1986**, 65, 960-967	7.1	23
53	CO2 gasification of activated carbon catalyzed by earth alkaline elements. *AICHE Journal*, **1986**, 32, 691-695	3.8	64
52	The interaction of CO2 and CO with an alkali carbonate carbon system studied by in-situ Fourier Transform infrared spectroscopy. *Fuel*, **1986**, 65, 1349-1355	7.1	27
51	Sulfidability and HDS activity of Co-Mo/Al2O3 catalysts. *Applied Catalysis*, **1986**, 25, 303-311		43
50	Temperature-programmed reduction of Re2O7/Al2O3 metathesis catalysts; calculation of activation parameters for reduction. *Journal of Molecular Catalysis*, **1985**, 30, 111-123		17
49	Temperature-programmed reduction of CoO/Al2O3 catalysts. *Journal of Catalysis*, **1985**, 93, 38-54	7.3	531
48	Temperature-Programmed Reduction of Al2O3-, SiO2-, and carbon-supported Re2O7 catalysts. *Journal of Catalysis*, **1985**, 93, 231-245	7.3	58
47	Temperature-programmed sulfiding of MoO3/Al2O3 catalysts. *Journal of Catalysis*, **1985**, 92, 35-55	7.3	181
46	Temperature-programmed reduction of CoO$z.sbnd;MoO3/Al2O3 catalysts. *Journal of Catalysis*, **1985**, 96, 381-395	7.3	93
45	Temperature-Programmed Sulfiding and Reduction of CoO/Al2O3 catalysts. *Journal of Catalysis*, **1985**, 96, 122-138	7.3	35

44	Organic emissions in coal combustion in relation to coal structure and combustion temperature. *Fuel*, **1985**, 64, 1468-1475	7.1	4
43	Raman spectroscopic investigation of the effect of H2O on the molybdenum surface species in MoO3/Al2O3 catalysts*1. *Journal of Catalysis*, **1984**, 90, 314-322	7.3	72
42	Mechanism of the potassium catalysed gasification of carbon in CO2. *Fuel*, **1984**, 63, 1043-1047	7.1	108
41	Role of the influence of potassium during pyrolysis of medium volatile coal. *Fuel*, **1984**, 63, 870-872	7.1	14
40	CO2 gasification of carbon catalysed by alkali metals. *Fuel*, **1984**, 63, 1036-1042	7.1	86
39	Methanation of CO over alkali metal□arbon catalysts. *Journal of the Chemical Society Chemical Communications*, **1984**, 278-279		14
38	Reduction of NOx over alkali metal□arbon systems. *Journal of the Chemical Society Chemical Communications*, **1984**, 1085-1086		38
37	The influence of pretreatment conditions on the activity and stability of sodium and potassium catalysts in carbon-steam reactions. *Carbon*, **1983**, 21, 295-301	10.4	41
36	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	10.4	88
35	The influence of potassium carbonate on surface area development and reactivity during gasification of activated carbon by carbon dioxide. *Carbon*, **1983**, 21, 13-22	10.4	63
34	Mass transfer phenomena during potassium carbonate catalysed carbon steam gasification reactions in a microbalance setup. *Carbon*, **1983**, 21, 23-31	10.4	13
33	Nature, activity and stability of active sites during alkali metal carbonate-catalysed gasification reactions of coal char. *Fuel*, **1983**, 62, 185-189	7.1	44
32	Temperature-programmed desorption study of Na2CO3-containing activated carbon. *Fuel*, **1983**, 62, 190-195	7.1	30
31	Kinetics of the potassium carbonate-catalysed CO2 gasification of activated carbon. *Fuel*, **1983**, 62, 221-225	7.1	61
30	Deactivation of nickel during gasification of activated carbon, studied by X-ray photoelectron spectroscopy. *Surface Science*, **1983**, 135, 532-552	1.8	14
29	Characterization of silica-supported molybdenum oxide and tungsten oxide. Reducibility of the oxidic state versus hydrodesulfurization activity of the sulfided state*1. *Journal of Catalysis*, **1983**, 84, 275-287	7.3	58
28	Formation of intercalate-like structures by heat treatment of K2CO3-carbon in an inert atmosphere. *Fuel*, **1983**, 62, 249-251	7.1	30
27	Alkali-catalysed gasification reactions studied by in situ FTIR spectroscopy. *Fuel*, **1983**, 62, 256-258	7.1	20

26	A packed-bed balance reactor for gas adsorption and gas-solid reactions under elevated pressures. *Journal of Physics E: Scientific Instruments*, **1982**, 15, 1064-1067		7
25	Characterization of $gamma;-alumina-supported Molybdenum oxide and tungsten oxide; reducibility of the oxidic state versus hydrodesulfurization activity of the sulfided state. *Journal of Catalysis*, **1982**, 76, 241-253	7.3	155
24	A comparative study of alumina supported molybdenum and tungsten oxide: relation between metathesis activity and reducibility. *Journal of Molecular Catalysis*, **1982**, 15, 157-172		52
23	Catalyst Structure and Mechanism in Carbon Gasification Reactions; Influence of Preparation on the Ni and K Catalysed Hydrogenative and Steam Gasification. *Studies in Surface Science and Catalysis*, **1981**, 501-516	1.8	5
22	Comparison of a block-flow reactor and thermogravimetric analysis in the steam gasification of different types of carbon. *Carbon*, **1981**, 19, 309-320	10.4	9
21	An in situ infrared spectroscopic study of the activity of alumina supported Mo(CO)6 for metathesis and ethene polymerization. *Journal of Molecular Catalysis*, **1980**, 8, 147-160		20
20	Structure/metathesis activity relations of silica supported molybdenum and tungsten oxide. *Journal of Molecular Catalysis*, **1980**, 8, 161-174		75
19	Structure and activity of fluorinated alumina. 1. Determination of the number of protonic sites by an infrared study of adsorbed pyridines. *Journal of Colloid and Interface Science*, **1980**, 77, 110-119	9.3	62
18	Structure and activity of fluorinated alumina. 2. Nature of the active site for 2-methylpropene oligomerization. *Journal of Colloid and Interface Science*, **1980**, 77, 120-130	9.3	32
17	Characterization of hydroprocessing catalysts by resolved temperature-programmed desorption, reduction and sulfiding. *Journal of Catalysis*, **1980**, 66, 162-170	7.3	45
16	On the formation of aluminum tungstate and its presence in tungsten oxide on $gamma;-alumina catalysts. *Journal of Catalysis*, **1980**, 61, 559-561	7.3	36
15	Activity and mechanism of CO methanation on activated carbon-supported nickel. *Journal of the Chemical Society Chemical Communications*, **1980**, 170		5
14	The evaluation in time domain of mass transfer parameters from chromatographic peaks. *Chemical Engineering Science*, **1979**, 34, 959-969	4.4	18
13	The XPS spectra of the metathesis catalyst tungsten oxide on silica gel. *Journal of Electron Spectroscopy and Related Phenomena*, **1978**, 14, 453-466	1.7	59
12	Gas chromatographic determination of diffusion constants by means of moment analysis. *Journal of Chromatography A*, **1978**, 160, 11-28	4.5	14
11	An improved apparatus for measuring volumetric flow of gases. *Journal of Physics E: Scientific Instruments*, **1978**, 11, 259-261		1
10	Incorporation of Surface Migration in the Theory of Gas-Solid Chromatography. *Industrial & Engineering Chemistry Fundamentals*, **1977**, 16, 301-303		5
9	Axial dispersion of gases flowing through coiled columns. *Journal of Chromatography A*, **1977**, 142, 155-166	4.5	21

8	Reduction and activity of the metathesis catalyst WO3/SiO2. *Journal of Catalysis*, **1977**, 46, 414-416	7.3	29
7	X-ray photoelectron (ESCA) spectra of some fluorine containing aluminas. *Reaction Kinetics and Catalysis Letters*, **1977**, 7, 15-20		15
6	The correlation of axial dispersion data for beds of small particles. *Chemical Engineering Science*, **1976**, 31, 845-847	4.4	16
5	Oligomerization of cyclohexene by a mixture of tungsten hexachloride and tetramethyltin. *Reaction Kinetics and Catalysis Letters*, **1975**, 3, 405-408		6
4	Disproportionation and cyclotrimerization of alkynes over supported tungsten oxide. *Journal of Catalysis*, **1972**, 25, 434-436	7.3	31
3	On the mechanism of the disproportionation of olefins. *Journal of Catalysis*, **1968**, 11, 87-88	7.3	16
2	The Focused Action of Surface Tension Versus the Brute Force of Turbulence Scaleable Microchannel-Based Process Intensification using Monoliths149-164		
1	Re-Engineering the Chemical Processing Plant		27