

Johan A Martens

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6841680/johan-a-martens-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

473
papers

20,432
citations

73
h-index

119
g-index

514
ext. papers

22,243
ext. citations

7.8
avg, IF

6.63
L-index

#	Paper	IF	Citations
473	Dispersing carbomers, mixing technology matters!. <i>RSC Advances</i> , 2022 , 12, 7830-7834	3.7	0
472	Matching emerging formic acid synthesis processes with application requirements. <i>Green Chemistry</i> , 2022 , 24, 2287-2295	10	1
471	Isotopological Fingerprinting Using H/D Scrambling Identifies the Stereochemistry of Hyperpolarization Catalysts Transferring Spin Polarization from Parahydrogen to Substrates Using Signal Amplification by Reversible Exchange.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3516-3522	6.4	
470	Fresh water production from atmospheric air: Technology and innovation outlook. <i>IScience</i> , 2021 , 24, 103266	6.1	2
469	NMR Crystallography Reveals Carbonate Induced Al-Ordering in ZnAl Layered Double Hydroxide. <i>Chemistry - A European Journal</i> , 2021 , 27, 15944-15953	4.8	0
468	Implant functionalization with mesoporous silica: A promising antibacterial strategy, but does such an implant osseointegrate?. <i>Clinical and Experimental Dental Research</i> , 2021 , 7, 502-511	1.9	3
467	Tailoring the d-Band Center of Double-Perovskite LaCoNiO Nanorods for High Activity in Artificial N Fixation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13347-13353	9.5	4
466	H Diffusion-Ordered Nuclear Magnetic Resonance Spectroscopic Analysis of Water-Extractable Arabinoxylan in Wheat (L.) Flour. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 3912-3922	5.7	0
465	Synthesis of a New Zeolite, Intergrowth of Erionite and Chabazite 2021 , 3, 658-662		0
464	Long-Term Generation of Longitudinal Spin Order Controlled by Ammonia Ligation Enables Rapid SABRE Hyperpolarized 2D NMR. <i>ChemPhysChem</i> , 2021 , 22, 1170-1177	3.2	0
463	Long-Term Generation of Longitudinal Spin Order Controlled by Ammonia Ligation Enables Rapid SABRE Hyperpolarized 2D NMR. <i>ChemPhysChem</i> , 2021 , 22, 1150	3.2	1
462	Controlled graphite surface functionalization using contact and remote photocatalytic oxidation. <i>Carbon</i> , 2021 , 172, 637-646	10.4	4
461	CuO supported on COK-12 and SBA-15 ordered mesoporous materials for temperature swing SOx adsorption. <i>Fuel Processing Technology</i> , 2021 , 211, 106586	7.2	5
460	Hierarchical ZIF-8 composite membranes: Enhancing gas separation performance by exploiting molecular dynamics in hierarchical hybrid materials. <i>Journal of Membrane Science</i> , 2021 , 620, 118943	9.6	4
459	Selective electrochemical reduction of CO2 to formic acid in a gas phase reactor with by-product recirculation. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 1867-1873	5.8	2
458	Super-ions of sodium cations with hydrated hydroxide anions: inorganic structure-directing agents in zeolite synthesis. <i>Materials Horizons</i> , 2021 , 8, 2576-2583	14.4	2
457	ALD Pt nanoparticles and thin-film coatings enhancing the stability and performance of silicon photocathodes for solar water splitting. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 3115-3123	5.8	0

456	Hierarchical ISI-1 zeolite catalyst for hydroconversion of long-chain paraffins. <i>Catalysis Science and Technology</i> , 2021 , 11, 1519-1525	5.5	0
455	Impact of the Spatial Distribution of Active Material on Bifunctional Hydrocracking. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6357-6378	3.9	2
454	Chlorination of a Zeolitic-Imidazolate Framework Tunes Packing and van der Waals Interaction of Carbon Dioxide for Optimized Adsorptive Separation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4962-4968	16.4	3
453	Non-Isothermal Kinetic Model of Water Vapor Adsorption on a Desiccant Bed for Harvesting Water from Atmospheric Air. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11812-11823	3.9	2
452	Hydroconversion of Octylcyclohexane over a Bifunctional Pt/USY Zeolite Catalyst. <i>Energy & Fuels</i> , 2021 , 35, 13955-13966	4.1	1
451	Insights on a Hierarchical MFI Zeolite: A Combined Spectroscopic and Catalytic Approach for Exploring the Multilevel Porous System Down to the Active Sites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49114-49127	9.5	1
450	Hydrogen Clathrates: Next Generation Hydrogen Storage Materials. <i>Energy Storage Materials</i> , 2021 , 41, 69-107	19.4	16
449	Spherical core-shell alumina support particles for model platinum catalysts. <i>Nanoscale</i> , 2021 , 13, 4221-4232	4.3	2
448	Interfacial study of clathrates confined in reversed silica pores. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21835-21844	13	0
447	Moving Electrode Impedance Spectroscopy for Accurate Conductivity Measurements of Corrosive Ionic Media. <i>ACS Sensors</i> , 2020 , 5, 3392-3397	9.2	1
446	N Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13320-13327	16.4	53
445	N ₂ Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe ₂ Catalysis at an Abrupt Interface. <i>Angewandte Chemie</i> , 2020 , 132, 13422-13429	3.6	10
444	Hyperpolarized Magnetic Resonance of Exchangeable Protons Using Parahydrogen and Aminosilane. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14541-14549	3.8	7
443	Energy-Efficient Ammonia Production from Air and Water Using Electrocatalysts with Limited Faradaic Efficiency. <i>ACS Energy Letters</i> , 2020 , 5, 1124-1127	20.1	13
442	Water as a tuneable solvent: a perspective. <i>Chemical Society Reviews</i> , 2020 , 49, 2557-2569	58.5	21
441	Energy performance and climate dependency of technologies for fresh water production from atmospheric water vapour. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 2016-2034	4.2	14
440	Ab initio investigation of the relative stability of silicogermanates and their (Alumino)Silicates counterparts. <i>Microporous and Mesoporous Materials</i> , 2020 , 306, 110425	5.3	0
439	Hydroconversion of Perhydrophenanthrene over Bifunctional Pt/H-USY Zeolite Catalyst. <i>ChemCatChem</i> , 2020 , 12, 3477-3488	5.2	4

438	Creation of gallium acid and platinum metal sites in bifunctional zeolite hydroisomerization and hydrocracking catalysts by atomic layer deposition. <i>Catalysis Science and Technology</i> , 2020 , 10, 1778-1788	5.5	8
437	High-Performance CO-Selective Hybrid Membranes by Exploiting MOF-Breathing Effects. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2952-2961	9.5	13
436	Structural parameters governing low temperature activity of small pore copper zeolites in NH ₃ -SCR. <i>Journal of Catalysis</i> , 2020 , 390, 224-236	7.3	9
435	Mechanistic aspects of n-paraffins hydrocracking: Influence of zeolite morphology and acidity of Pd(Pt)/ZSM-5 catalysts. <i>Journal of Catalysis</i> , 2020 , 389, 544-555	7.3	6
434	C-DOSY-TOSY NMR Correlation for In Situ Analysis of Structure, Size Distribution, and Dynamics of Prebiotic Oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 3250-3259	5.7	1
433	Trace Level Detection and Quantification of Crystalline Silica in an Amorphous Silica Matrix with Natural Abundance Si NMR. <i>Analytical Chemistry</i> , 2020 , 92, 13004-13009	7.8	3
432	Towards Green Ammonia Synthesis through Plasma-Driven Nitrogen Oxidation and Catalytic Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 24033-24037	3.6	8
431	Towards Green Ammonia Synthesis through Plasma-Driven Nitrogen Oxidation and Catalytic Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23825-23829	16.4	21
430	Alumina: discriminative analysis using 3D correlation of solid-state NMR parameters. <i>Chemical Society Reviews</i> , 2019 , 48, 134-156	58.5	44
429	Highly active oxygen evolution reaction model electrode based on supported gas-phase NiFe clusters. <i>Catalysis Today</i> , 2019 , 334, 59-67	5.3	16
428	Evaluation of hop (<i>Humulus lupulus</i>) as a repellent for the management of <i>Drosophila suzukii</i> . <i>Crop Protection</i> , 2019 , 124, 104839	2.7	9
427	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. <i>Advanced Materials</i> , 2019 , 31, e1900521	24	53
426	Catalytic activation of all-silica COK-14 zeolite through alumination and particle size reduction using wet ball milling. <i>Catalysis Today</i> , 2019 , 334, 3-12	5.3	6
425	"Click" Silica-Supported Sulfonic Acid Catalysts with Variable Acid Strength and Surface Polarity. <i>Chemistry - A European Journal</i> , 2019 , 25, 6753-6762	4.8	9
424	Material properties determining insecticidal activity of activated carbon on the pharaoh ant (<i>Monomorium pharaonis</i>). <i>Journal of Pest Science</i> , 2019 , 92, 643-652	5.5	3
423	Low-temperature activation of carbon black by selective photocatalytic oxidation. <i>Nanoscale Advances</i> , 2019 , 1, 2873-2880	5.1	5
422	A Porous POSSil Suited for Pressure-Driven Reversible Confinement of Solutions: PSS-2. <i>Chemistry - A European Journal</i> , 2019 , 25, 12957-12965	4.8	3
421	Honeycomb-shaped carbon nanotube supports for BiVO based solar water splitting. <i>Nanoscale</i> , 2019 , 11, 22964-22970	7.7	12

4 ²⁰	Bifunctional earth-abundant phosphate/phosphide catalysts prepared via atomic layer deposition for electrocatalytic water splitting. <i>Nanoscale Advances</i> , 2019 , 1, 4166-4172	5.1	21
4 ¹⁹	Evolution of the crystal growth mechanism of zeolite W (MER) with temperature. <i>Microporous and Mesoporous Materials</i> , 2019 , 274, 379-384	5.3	10
4 ¹⁸	Stability of vapor phase water electrolysis cell with anion exchange membrane. <i>Catalysis Today</i> , 2019 , 334, 243-248	5.3	4
4 ¹⁷	Solid-state NMR tools for the structural characterization of POSSiSils: Si sensitivity improvement with MC-CP and 2D Si- Si DQ-SQ at natural abundance. <i>Magnetic Resonance in Chemistry</i> , 2019 , 57, 224-229 ¹	2.1	3
4 ¹⁶	An improved design to capture magnetic microparticles for capillary electrophoresis based immobilized microenzyme reactors. <i>Electrophoresis</i> , 2018 , 39, 981-988	3.6	12
4 ¹⁵	Reversible room temperature ammonia gas absorption in pore water of microporous silica-alumina for sensing applications. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13528-13536	3.6	4
4 ¹⁴	Porous multi-junction thin-film silicon solar cells for scalable solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 182, 196-203	6.4	14
4 ¹³	Periodic mesoporous organosilicas as porous matrix for heterogeneous lyophobic systems. <i>Microporous and Mesoporous Materials</i> , 2018 , 260, 166-171	5.3	12
4 ¹²	Interfacial Water Drives Improved Proton Transport in Siliceous Nanocomposite Nafion Thin Films. <i>ChemPhysChem</i> , 2018 , 19, 538-546	3.2	2
4 ¹¹	EU-7 zeolite: a synthetic BIK type zeolite with high hydrothermal stability. <i>Chemical Communications</i> , 2018 , 54, 5626-5629	5.8	2
4 ¹⁰	Material properties determining the insecticidal activity of highly divided porous materials on the pharaoh ant (<i>Monomorium pharaonis</i>). <i>Pest Management Science</i> , 2018 , 74, 1374-1385	4.6	6
4 ⁰⁹	Analysis of Cuticular Lipids of the Pharaoh Ant () and Their Selective Adsorption on Insecticidal Zeolite Powders. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	1
4 ⁰⁸	Low-cost disposable high-pressure setup for in situ X-ray experiments. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 1893-1894	2.4	2
4 ⁰⁷	Harvesting Hydrogen Gas from Air Pollutants with an Unbiased Gas Phase Photoelectrochemical Cell. <i>ChemSusChem</i> , 2017 , 10, 1413-1418	8.3	13
4 ⁰⁶	Hierarchical self-supported ZnAlEu LDH nanotubes hosting luminescent CdTe quantum dots. <i>Chemical Communications</i> , 2017 , 53, 7341-7344	5.8	16
4 ⁰⁵	Rationalizing Acid Zeolite Performance on the Nanoscale by Correlative Fluorescence and Electron Microscopy. <i>ACS Catalysis</i> , 2017 , 7, 5234-5242	13.1	15
4 ⁰⁴	Alternating Copolymer of Double Four Ring Silicate and Dimethyl Silicone Monomer-PSS-1. <i>Chemistry - A European Journal</i> , 2017 , 23, 11286-11293	4.8	4
4 ⁰³	Double-Four-Ring [Si8O12][OH]8 Cyclosilicate and Functionalized Spherosilicate Synthesis from [N(n-C4H9)4]H7[Si8O20]·5.33H2O Cyclosilicate Hydrate Crystals. <i>Chemistry of Materials</i> , 2017 , 29, 5063-5069	9.6	5

402	Solvent Polarity-Induced Pore Selectivity in H-ZSM-5 Catalysis. <i>ACS Catalysis</i> , 2017 , 7, 4248-4252	13.1	17
401	The Chemical Route to a Carbon Dioxide Neutral World. <i>ChemSusChem</i> , 2017 , 10, 1039-1055	8.3	129
400	1D-2D-3D Transformation Synthesis of Hierarchical Metal-Organic Framework Adsorbent for Multicomponent Alkane Separation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 819-828	16.4	54
399	Strategies for Enhancing the Catalytic Performance of Metal-Organic Frameworks in the Fixation of CO into Cyclic Carbonates. <i>ChemSusChem</i> , 2017 , 10, 1283-1291	8.3	64
398	Postsynthetic High-Alumina Zeolite Crystal Engineering in Organic-Free Hyper-Alkaline Media. <i>Chemistry of Materials</i> , 2017 , 29, 629-638	9.6	11
397	Impact of Amino Acids on the Isomerization of the Aluminum Tridecamer Al. <i>Inorganic Chemistry</i> , 2017 , 56, 12401-12409	5.1	7
396	Vapor-fed solar hydrogen production exceeding 15% efficiency using earth abundant catalysts and anion exchange membrane. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 2061-2065	5.8	24
395	Independent tuning of size and coverage of supported Pt nanoparticles using atomic layer deposition. <i>Nature Communications</i> , 2017 , 8, 1074	17.4	72
394	Plasma-Enhanced Atomic Layer Deposition of Silver Using Ag(fod)(PEt3) and NH3-Plasma. <i>Chemistry of Materials</i> , 2017 , 29, 7114-7121	9.6	15
393	Highly selective gas separation membrane using in situ amorphised metal-organic frameworks. <i>Energy and Environmental Science</i> , 2017 , 10, 2342-2351	35.4	100
392	Integrated Solar Hydrogen Devices: Cell Design and Nanostructured Components in Liquid and Vapor-Phase Water Splitting 2017 , 907-938		
391	Absolute Quantification of Water in Microporous Solids with H Magic Angle Spinning NMR and Standard Addition. <i>Analytical Chemistry</i> , 2017 , 89, 6940-6943	7.8	12
390	Photocatalysis assisted simultaneous carbon oxidation and NOx reduction. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 381-387	21.8	14
389	Interfacial synthesis of ZIF-8 membranes with improved nanofiltration performance. <i>Journal of Membrane Science</i> , 2017 , 523, 561-566	9.6	77
388	Changes in DNA Methylation in Mouse Lungs after a Single Intra-Tracheal Administration of Nanomaterials. <i>PLoS ONE</i> , 2017 , 12, e0169886	3.7	38
387	Electron tomography combined with electron diffraction reveals the dissolution and phase transformation of KFI to CHA zeolites 2016 , 698-699		
386	Minimization of Ionic Transport Resistance in Porous Monoliths for Application in Integrated Solar Water Splitting Devices. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21242-21247	3.8	11
385	PDMS mixed matrix membranes filled with novel PSS-2 nanoparticles for ethanol/water separation by pervaporation. <i>RSC Advances</i> , 2016 , 6, 78648-78651	3.7	9

384	Ordered mesoporous silica to enhance the bioavailability of poorly water-soluble drugs: Proof of concept in man. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 108, 220-225	5.7	49
383	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. <i>ACS Omega</i> , 2016 , 1, 148-159	3.9	62
382	Activity versus selectivity in photocatalysis: Morphological or electronic properties tipping the scale. <i>Journal of Catalysis</i> , 2016 , 344, 221-228	7.3	20
381	Manganese oxide films with controlled oxidation state for water splitting devices through a combination of atomic layer deposition and post-deposition annealing. <i>RSC Advances</i> , 2016 , 6, 98337-98343	3.7	35
380	Intrusion-extrusion spring performance of -COK-14 zeolite enhanced by structural changes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18795-801	3.6	8
379	Plasmonic Rainbow Photocatalyst with Broadband Solar Light Response for Environmental Applications. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 147-153	21.8	33
378	In Situ Solid-State (13)C NMR Observation of Pore Mouth Catalysis in Etherification of Citronellene with Ethanol on Zeolite Beta. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2802-8	16.4	23
377	Combined Experimental-Numerical Analysis of Transient Phenomena in a Photoelectrochemical Water Splitting Cell. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3705-3714	3.8	19
376	Synthesis of an IWW-type germanosilicate zeolite using 5-azonia-spiro[4,4]nonane as a structure directing agent. <i>New Journal of Chemistry</i> , 2016 , 40, 4319-4324	3.6	7
375	PDMS mixed matrix membranes containing hollow silicalite sphere for ethanol / water separation by pervaporation. <i>Journal of Membrane Science</i> , 2016 , 502, 48-56	9.6	53
374	In Vivo Performance of Fenofibrate Formulated With Ordered Mesoporous Silica Versus 2-Marketed Formulations: A Comparative Bioavailability Study in Beagle Dogs. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 2381-5	3.9	15
373	PDMS membranes containing ZIF-coated mesoporous silica spheres for efficient ethanol recovery via pervaporation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12790-12798	13	45
372	Synthesis of aluminum-containing hierarchical mesoporous materials with columnar mesopore ordering by evaporation induced self-assembly. <i>Microporous and Mesoporous Materials</i> , 2016 , 234, 186-193	5.3	5
371	In-situ Growth of Platinum with Hierarchical Porosity for Low Impedance Biomedical Microelectrode Fabrication. <i>Procedia Engineering</i> , 2016 , 168, 1122-1126		
370	Hydroisomerization and hydrocracking activity enhancement of a hierarchical ZSM-5 zeolite catalyst via atomic layer deposition of aluminium. <i>Catalysis Science and Technology</i> , 2016 , 6, 6177-6186	5.5	13
369	Selective etherification of Citronellene catalyzed by zeolite beta. <i>Green Chemistry</i> , 2015 , 17, 2840-2845	10	3
368	Silica capsules enclosing P123 triblock copolymer micelles for flurbiprofen storage and release. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3054-3061	7.3	17
367	Tailoring preparation, structure and photocatalytic activity of layer-by-layer films for degradation of different target molecules. <i>Catalysis Today</i> , 2015 , 246, 28-34	5.3	11

366	Self-Assembly of Pluronic F127-Silica Spherical Core-Shell Nanoparticles in Cubic Close-Packed Structures. <i>Chemistry of Materials</i> , 2015 , 27, 5161-5169	9.6	29
365	Novel anti-infective implant substrates: controlled release of antibiofilm compounds from mesoporous silica-containing macroporous titanium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 481-8	6	17
364	Zeolite synthesis in hydrated silicate ionic liquids. <i>Faraday Discussions</i> , 2015 , 179, 437-49	3.6	21
363	Resolving Interparticle Heterogeneities in Composition and Hydrogenation Performance between Individual Supported Silver on Silica Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 6690-6695	13.1	19
362	Mixed matrix membranes comprising of matrimid and mesoporous COK-12: Preparation and gas separation properties. <i>Journal of Membrane Science</i> , 2015 , 495, 471-478	9.6	26
361	Fabrication of Nanostructured Platinum with Multilevel Porosity for Low Impedance Biomedical Recording and Stimulation Electrodes. <i>Procedia Engineering</i> , 2015 , 120, 355-359		7
360	Ternary Ag/MgO-SiO ₂ catalysts for the conversion of ethanol into butadiene. <i>ChemSusChem</i> , 2015 , 8, 994-1008	8.3	119
359	Toxicity of nanoparticles embedded in paints compared to pristine nanoparticles, in vitro study. <i>Toxicology Letters</i> , 2015 , 232, 333-9	4.4	25
358	Effect of a magnetic field on dispersion of a hop extract and the influence on gushing of beer. <i>Journal of Food Engineering</i> , 2015 , 145, 10-18	6	5
357	Photocatalytic carbon oxidation with nitric oxide. <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 374-388		8
356	Stable TiO ₂ /USY zeolite composite coatings for efficient adsorptive and photocatalytic elimination of geosmin from water. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2258-2264	13	20
355	Polymer supported ZIF-8 membranes prepared via an interfacial synthesis method. <i>Chemical Communications</i> , 2015 , 51, 918-20	5.8	150
354	Homogeneous Tubular-Flow Process for Monoolein Preparation. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 2015 , 92, 1525-1529	1.8	3
353	Ternary Ag/MgO-SiO ₂ catalysts for the conversion of ethanol into butadiene. <i>ChemSusChem</i> , 2015 , 8, 913	8.3	4
352	Porous Materials: Submicrometer-Sized ZIF-71 Filled Organophilic Membranes for Improved Bioethanol Recovery: Mechanistic Insights by Monte Carlo Simulation and FTIR Spectroscopy (Adv. Funct. Mater. 4/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 498-498	15.6	1
351	Catalyst Design by NH ₄ OH Treatment of USY Zeolite. <i>Advanced Functional Materials</i> , 2015 , 25, 7130-7144	15.6	60
350	Hierarchical Zeolite: Catalyst Design by NH ₄ OH Treatment of USY Zeolite (Adv. Funct. Mater. 46/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 7244-7244	15.6	1
349	Design of Compact Photoelectrochemical Cells for Water Splitting. <i>Oil and Gas Science and Technology</i> , 2015 , 70, 877-889	1.9	24

348	Solar Hydrogen Reaching Maturity. <i>Oil and Gas Science and Technology</i> , 2015 , 70, 863-876	1.9	23
347	Nanoscale intimacy in bifunctional catalysts for selective conversion of hydrocarbons. <i>Nature</i> , 2015 , 528, 245-8	50.4	318
346	Computational modelling of a photocatalytic UV-LED reactor with internal mass and photon transfer consideration. <i>Chemical Engineering Journal</i> , 2015 , 264, 962-970	14.7	50
345	Submicrometer-Sized ZIF-71 Filled Organophilic Membranes for Improved Bioethanol Recovery: Mechanistic Insights by Monte Carlo Simulation and FTIR Spectroscopy. <i>Advanced Functional Materials</i> , 2015 , 25, 516-525	15.6	78
344	Cation exchange properties of zeolites in hyper alkaline aqueous media. <i>Environmental Science & Technology</i> , 2015 , 49, 1729-37	10.3	10
343	Chabazite: stable cation-exchanger in hyper alkaline concrete pore water. <i>Environmental Science & Technology</i> , 2015 , 49, 2358-65	10.3	8
342	Monolithic cells for solar fuels. <i>Chemical Society Reviews</i> , 2014 , 43, 7963-81	58.5	165
341	Cost-effectiveness analysis to assess commercial TiO ₂ photocatalysts for acetaldehyde degradation in air. <i>Chemical Papers</i> , 2014 , 68,	1.9	13
340	Synthesis of a 3D network of Pt nanowires by atomic layer deposition on a carbonaceous template. <i>Nanoscale</i> , 2014 , 6, 6939-44	7.7	14
339	Plasmonic gold/silver alloy on TiO ₂ photocatalysts with tunable visible light activity. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 116-121	21.8	103
338	Co-assessment of cell cycle and micronucleus frequencies demonstrates the influence of serum on the in vitro genotoxic response to amorphous monodisperse silica nanoparticles of varying sizes. <i>Nanotoxicology</i> , 2014 , 8, 876-84	5.3	41
337	Single molecule methods for the study of catalysis: from enzymes to heterogeneous catalysts. <i>Chemical Society Reviews</i> , 2014 , 43, 990-1006	58.5	105
336	Plasma enhanced atomic layer deposition of Ga ₂ O ₃ thin films. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19232-19238	13	50
335	Atomic layer deposition-based synthesis of photoactive TiO ₂ nanoparticle chains by using carbon nanotubes as sacrificial templates. <i>RSC Advances</i> , 2014 , 4, 11648	3.7	45
334	Conversion of sugars to ethylene glycol with nickel tungsten carbide in a fed-batch reactor: high productivity and reaction network elucidation. <i>Green Chemistry</i> , 2014 , 16, 695-707	10	125
333	Hierarchization of USY Zeolite by NH ₄ OH. A Postsynthetic Process Investigated by NMR and XRD. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22573-22582	3.8	64
332	Correction to Adsorption and Separation of CO ₂ on KFI Zeolites: Effect of Cation Type and Si/Al Ratio on Equilibrium and Kinetic Properties. <i>Langmuir</i> , 2014 , 30, 2968-2968	4	4
331	Cr-MIL-101 encapsulated Keggin phosphotungstic acid as active nanomaterial for catalysing the alcoholysis of styrene oxide. <i>Green Chemistry</i> , 2014 , 16, 1351-1357	10	98

330	Membrane remodeling processes induced by phospholipase action. <i>Langmuir</i> , 2014 , 30, 4743-51	4	10
329	NMR Evidence for Specific Germanium Siting in IM-12 Zeolite. <i>Chemistry of Materials</i> , 2014 , 26, 5556-5565.6		32
328	Controllable nitrogen doping in as deposited TiO ₂ film and its effect on post deposition annealing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014 , 32, 01A123	2.9	16
327	ZIF-71 as a potential filler to prepare pervaporation membranes for bio-alcohol recovery. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10034-10040	13	124
326	Enantiomeric Adsorption of Lactic Acid Mixtures in Achiral Zeolites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14991-14997	3.8	3
325	Local transformation of ZIF-8 powders and coatings into ZnO nanorods for photocatalytic application. <i>Nanoscale</i> , 2014 , 6, 2056-60	7.7	83
324	Towards zero-waste mineral carbon sequestration via two-way valorization of ironmaking slag. <i>Chemical Engineering Journal</i> , 2014 , 249, 260-269	14.7	38
323	Esterification Reaction Utilizing Sense of Smell and Eyesight for Conversion and Catalyst Recovery Monitoring. <i>Journal of Chemical Education</i> , 2014 , 91, 876-879	2.4	7
322	Photocatalytic acetaldehyde oxidation in air using spacious TiO ₂ films prepared by atomic layer deposition on supported carbonaceous sacrificial templates. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 204-210	21.8	33
321	MolybdenumVanadiumAntimony mixed oxide catalyst for isobutane partial oxidation synthesized using magneto hydrodynamic forces. <i>Applied Catalysis A: General</i> , 2014 , 474, 18-25	5.1	9
320	Gallium Oxide Nanorods: Novel, Template-Free Synthesis and High Catalytic Activity in Epoxidation Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 1611-1615	3.6	7
319	Gallium oxide nanorods: novel, template-free synthesis and high catalytic activity in epoxidation reactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1585-9	16.4	56
318	In Situ IR Spectroscopic Investigation of Alumina ALD on Porous Silica Films: Thermal versus Plasma-Enhanced ALD. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29854-29859	3.8	23
317	Enhanced self-assembly of metal oxides and metal-organic frameworks from precursors with magnetohydrodynamically induced long-lived collective spin states. <i>Advanced Materials</i> , 2014 , 26, 5173-84		6
316	Atom-efficient route for converting incineration ashes into heavy metal sorbents. <i>ChemSusChem</i> , 2014 , 7, 276-83	8.3	19
315	Single-step alcohol-free synthesis of core-shell nanoparticles of Casein micelles and silica. <i>RSC Advances</i> , 2014 , 4, 25650-25657	3.7	3
314	Self-Assembly: Enhanced Self-Assembly of Metal Oxides and Metal-Organic Frameworks from Precursors with Magnetohydrodynamically Induced Long-Lived Collective Spin States (Adv. Mater. 30/2014). <i>Advanced Materials</i> , 2014 , 26, 5223-5223	24	
313	Use of the transpiration method to study polonium evaporation from liquid lead-bismuth eutectic at high temperature. <i>Radiochimica Acta</i> , 2014 , 102,	1.9	8

312	Effects of bioleaching on the chemical, mineralogical and morphological properties of natural and waste-derived alkaline materials. <i>Minerals Engineering</i> , 2013 , 48, 116-125	4.9	24
311	Adsorption and separation of CO ₂ on KFI zeolites: effect of cation type and Si/Al ratio on equilibrium and kinetic properties. <i>Langmuir</i> , 2013 , 29, 4998-5012	4	47
310	Hydroisomerization and hydrocracking of linear and multibranched long model alkanes on hierarchical Pt/ZSM-22 zeolite. <i>Catalysis Today</i> , 2013 , 218-219, 135-142	5.3	65
309	Predicting the Surface Plasmon Resonance Wavelength of GoldSilver Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19142-19145	3.8	64
308	Hierarchical Zeolitic Imidazolate Framework-8 Catalyst for Monoglyceride Synthesis. <i>ChemCatChem</i> , 2013 , 5, 3562-3566	5.2	69
307	In situ FT-IR investigation of etravirine speciation in pores of SBA-15 ordered mesoporous silica material upon contact with water. <i>Molecular Pharmaceutics</i> , 2013 , 10, 567-73	5.6	15
306	Agglomeration of mesoporous silica by melt and steam granulation. Part I: a comparison between disordered and ordered mesoporous silica. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3966-77	3.9	10
305	Alkaline cations directing the transformation of FAU zeolites into five different framework types. <i>Chemical Communications</i> , 2013 , 49, 11737-9	5.8	58
304	Chronoamperometric study of membrane electrode assembly operation in continuous flow photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9315-25	3.6	29
303	Screening protocol for identifying inorganic oxides with anti-oxidant and pro-oxidant activity for biomedical, environmental and food preservation applications. <i>RSC Advances</i> , 2013 , 3, 900-909	3.7	4
302	Hydroisomerization of emerging renewable hydrocarbons using hierarchical Pt/H-ZSM-22 catalyst. <i>ChemSusChem</i> , 2013 , 6, 421-5	8.3	94
301	Catalytic activity of germanosilicate UTL zeolite in bifunctional hydroisomerisation of n-decane. <i>Microporous and Mesoporous Materials</i> , 2013 , 166, 153-160	5.3	19
300	Selective Hydroalkoxylation of 1-Hexene with 1-Propanol and 1-Butanol over Zeolite Beta Catalyst. <i>ChemCatChem</i> , 2013 , 5, 576-581	5.2	9
299	Molecular shape-selectivity of MFI zeolite nanosheets in n-decane isomerization and hydrocracking. <i>Journal of Catalysis</i> , 2013 , 300, 70-80	7.3	118
298	Erbium enhanced formation and growth of photoluminescent Er/Si nanocrystals. <i>Thin Solid Films</i> , 2013 , 536, 196-201	2.2	8
297	IZM-2: A promising new zeolite for the selective hydroisomerization of long-chain n-alkanes. <i>Journal of Catalysis</i> , 2013 , 301, 20-29	7.3	41
296	Synthesis of Monoglycerides by Esterification of Oleic Acid with Glycerol in Heterogeneous Catalytic Process Using Tin-Organic Framework Catalyst. <i>Catalysis Letters</i> , 2013 , 143, 356-363	2.8	41
295	COK-16: A Cation-Exchanging Metal-Organic Framework Hybrid. <i>ChemPlusChem</i> , 2013 , 78, 402-406	2.8	13

294	Synthesis of uniformly dispersed anatase nanoparticles inside mesoporous silica thin films via controlled breakup and crystallization of amorphous TiO ₂ deposited using atomic layer deposition. <i>Nanoscale</i> , 2013 , 5, 5001-8	7.7	20
293	Adsorption of Polar Enantiomers in Achiral Zeolites. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1524-1530	8	11
292	Amorphous silica nanoparticles promote monocyte adhesion to human endothelial cells: size-dependent effect. <i>Small</i> , 2013 , 9, 430-8	11	29
291	Modified Titanium Surface-Mediated Effects on Human Bone Marrow Stromal Cell Response. <i>Materials</i> , 2013 , 6, 5533-5548	3.5	2
290	In vitro and in vivo investigation of the potential of amorphous microporous silica as a protein delivery vehicle. <i>BioMed Research International</i> , 2013 , 2013, 306418	3	5
289	Agglomeration of mesoporous silica by melt and steam granulation. part II: screening of steam granulation process variables using a factorial design. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3978-86	3.9	6
288	Hydrolysis of Dipeptides Catalyzed by a Zirconium(IV)-Substituted Lindqvist Type Polyoxometalate. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 4601-4611	2.3	36
287	Pt/H-ZSM-22 hydroisomerization catalysts optimization guided by Single-Event MicroKinetic modeling. <i>Journal of Catalysis</i> , 2012 , 290, 165-176	7.3	43
286	The impact of framework organic functional groups on the hydrophobicity and overall stability of mesoporous silica materials. <i>Materials Chemistry and Physics</i> , 2012 , 132, 1077-1088	4.4	20
285	Use of ordered mesoporous silica to enhance the oral bioavailability of ezetimibe in dogs. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1136-44	3.9	32
284	Entropy-Driven Chemisorption of NO _x on Phosphotungstic Acid. <i>Angewandte Chemie</i> , 2012 , 124, 11172-11175	16.1	175
283	Entropy-driven chemisorption of NO(x) on phosphotungstic acid. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11010-3	16.4	3
282	Synthesis of zeolitic-type adsorbent material from municipal solid waste incinerator bottom ash and its application in heavy metal adsorption. <i>Catalysis Today</i> , 2012 , 190, 23-30	5.3	55
281	On the role of hydrodynamic forces in vanadium oxide nanoscroll synthesis. <i>Catalysis Today</i> , 2012 , 192, 63-66	5.3	5
280	Photocatalytic growth of dendritic silver nanostructures as SERS substrates. <i>Chemical Communications</i> , 2012 , 48, 1559-61	5.8	38
279	Selective photocatalytic oxidation of gaseous ammonia to dinitrogen in a continuous flow reactor. <i>Catalysis Science and Technology</i> , 2012 , 2, 1802	5.5	12
278	In situ monitoring of atomic layer deposition in nanoporous thin films using ellipsometric porosimetry. <i>Langmuir</i> , 2012 , 28, 3852-9	4	42
277	Letter to the editor regarding the article by Wittmaack. <i>Chemical Research in Toxicology</i> , 2012 , 25, 4-6; author reply 7-10	4	3

276	Cytokine production by co-cultures exposed to monodisperse amorphous silica nanoparticles: the role of size and surface area. <i>Toxicology Letters</i> , 2012 , 211, 98-104	4.4	44
275	Interplay of metal node and amine functionality in NH ₂ -MIL-53: modulating breathing behavior through intra-framework interactions. <i>Langmuir</i> , 2012 , 28, 12916-22	4	89
274	Anisotropic Atomic Layer Deposition Profiles of TiO ₂ in Hierarchical Silica Material with Multiple Porosity. <i>Chemistry of Materials</i> , 2012 , 24, 2775-2780	9.6	25
273	Selective synthesis of 2-ethoxy alkanes through ethoxylation of 1-alkenes with bioethanol over zeolite beta catalyst in a liquid phase continuous process. <i>Green Chemistry</i> , 2012 , 14, 1475	10	8
272	Adsorption of multi-heavy metals onto water treatment residuals: Sorption capacities and applications. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 405-415	14.7	81
271	Risk assessment of premature drug release during wet granulation of ordered mesoporous silica loaded with poorly soluble compounds itraconazole, fenofibrate, naproxen, and ibuprofen. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 81, 190-8	5.7	27
270	Upscaling of the hot-melt extrusion process: comparison between laboratory scale and pilot scale production of solid dispersions with miconazole and Kollicoat IR. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 81, 674-82	5.7	20
269	Assessment of side-effects by Ludox TMA silica nanoparticles following a dietary exposure on the bumblebee <i>Bombus terrestris</i> . <i>Nanotoxicology</i> , 2012 , 6, 554-61	5.3	15
268	Bone tissue response to BMP-2 adsorbed on amorphous microporous silica implants. <i>Journal of Clinical Periodontology</i> , 2012 , 39, 1206-13	7.7	6
267	Design of zeolite by inverse sigma transformation. <i>Nature Materials</i> , 2012 , 11, 1059-64	27	143
266	Factors driving the activity of commercial titanium dioxide powders towards gas phase photocatalytic oxidation of acetaldehyde. <i>Catalysis Science and Technology</i> , 2012 , 2, 2311	5.5	42
265	Is their potential for post-synthetic brominating reactions on benzene bridged PMOs?. <i>Microporous and Mesoporous Materials</i> , 2012 , 164, 49-55	5.3	5
264	Investigation of the cytotoxicity of nanozeolites A and Y. <i>Nanotoxicology</i> , 2012 , 6, 472-85	5.3	25
263	NH ₂ -MIL-53(Al): a high-contrast reversible solid-state nonlinear optical switch. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8314-7	16.4	121
262	Fine tuning of the metal-organic framework Cu ₃ (BTC) ₂ HKUST-1 crystal size in the 100 nm to 5 micron range. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13742		139
261	Oxidative stress induced by pure and iron-doped amorphous silica nanoparticles in subtoxic conditions. <i>Chemical Research in Toxicology</i> , 2012 , 25, 828-37	4	56
260	Chromate-Mediated One-Step Quantitative Transformation of PW12 into P2W20 Polyoxometalates. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3852-3858	2.3	4
259	Copper benzene tricarboxylate metal-organic framework with wide permanent mesopores stabilized by Keggin polyoxometallate ions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10911-9	16.4	105

258	Recovery and reuse of heteropolyacid catalyst in liquid reaction medium through reversible encapsulation in Cu ₃ (BTC) ₂ metal-organic framework. <i>Chemical Science</i> , 2012 , 3, 1847	9.4	38
257	Selective Catalytic Oxidation of Ammonia into Dinitrogen over a Zeolite-Supported Ruthenium Dioxide Catalyst. <i>ChemCatChem</i> , 2012 , 4, 1162-1166	5.2	14
256	Design of a Cobalt-Zeolite Catalyst for Semi-Linear Higher-Olefin Synthesis. <i>ChemCatChem</i> , 2012 , 4, 1245-1248	5.2	5
255	Selective and reversible ammonia gas detection with nanoporous film functionalized silicon photonic micro-ring resonator. <i>Optics Express</i> , 2012 , 20, 11855-62	3.3	56
254	Combined Modeling and Biophysical Characterisation of CO ₂ Interaction with Class II Hydrophobins: New Insight into the Mechanism Underpinning Primary Gushing. <i>Journal of the American Society of Brewing Chemists</i> , 2012 , 70, 249-256	1.9	22
253	Molecular organization of hydrophobic molecules and co-adsorbed water in SBA-15 ordered mesoporous silica material. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2706-13	3.6	35
252	Metal-Organic Frameworks as Catalysts for Organic Reactions 2011 , 191-212		13
251	²⁹ Si NMR and UV-Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Sol-Gel Chemistry. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3562-3571	3.8	54
250	Continuous synthesis process of hexagonal nanoplates of P6m ordered mesoporous silica. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13737-45	16.4	45
249	In Situ X-ray Fluorescence Measurements During Atomic Layer Deposition: Nucleation and Growth of TiO ₂ on Planar Substrates and in Nanoporous Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6605-6610	3.8	60
248	Effect of Keggin polyoxometalate on Cu(II) speciation and its role in the assembly of Cu ₃ (BTC) ₂ metal-organic framework. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9768		28
247	NO _x Adsorption Site Engineering in Ru/Ba,Na ⁺ Zeolite. <i>Chemistry of Materials</i> , 2011 , 23, 4606-4611	9.6	12
246	UV-Raman and ²⁹ Si NMR Spectroscopy Investigation of the Nature of Silicate Oligomers Formed by Acid Catalyzed Hydrolysis and Polycondensation of Tetramethylorthosilicate. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11077-11088	3.8	27
245	The cytotoxic activity of amorphous silica nanoparticles is mainly influenced by surface area and not by aggregation. <i>Toxicology Letters</i> , 2011 , 206, 197-203	4.4	70
244	Dynamic Light Scattering (DLS) as a Tool to Detect CO ₂ -Hydrophobin Structures and Study the Primary Gushing Potential of Beer. <i>Journal of the American Society of Brewing Chemists</i> , 2011 , 69, 144-149	1.9	22
243	Methodological approaches influencing cellular uptake and cyto-(geno) toxic effects of nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2011 , 7, 3-5	4	9
242	A standardization for BET fitting of adsorption isotherms. <i>Microporous and Mesoporous Materials</i> , 2011 , 145, 188-193	5.3	26
241	Controlled release of chlorhexidine antiseptic from microporous amorphous silica applied in open porosity of an implant surface. <i>International Journal of Pharmaceutics</i> , 2011 , 419, 28-32	6.5	16

240	Reply to the Comments on Shape-selective diisopropylation of naphthalene in H-mordenite: Myth or reality? By Gyula Tasi and István Pinkl <i>Journal of Catalysis</i> , 2011 , 279, 231	7.3	1
239	Reply to the letter of Robert Brzozowski concerning the conclusions drawn in Shape-selective diisopropylation of naphthalene in H-Mordenite: Myth or reality? <i>Journal of Catalysis</i> , 2011 , 280, 142-143	7.3	2
238	The benefit of glass bead supports for efficient gas phase photocatalysis: Case study of a commercial and a synthesised photocatalyst. <i>Chemical Engineering Journal</i> , 2011 , 174, 318-325	14.7	47
237	Smart heating profiles for the synthesis of benzene bridged periodic mesoporous organosilicas. <i>Chemical Engineering Journal</i> , 2011 , 175, 585-591	14.7	6
236	Tailoring nanoporous materials by atomic layer deposition. <i>Chemical Society Reviews</i> , 2011 , 40, 5242-53	58.5	294
235	Comparison between 2-hydroxypropyl- β -cyclodextrin and 2-hydroxypropyl- β -cyclodextrin for inclusion complex formation with danazol. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011 , 71, 137-147		5
234	Comparison between hot-melt extrusion and spray-drying for manufacturing solid dispersions of the graft copolymer of ethylene glycol and vinylalcohol. <i>Pharmaceutical Research</i> , 2011 , 28, 673-82	4.5	49
233	Mayonnaise production in batch and continuous process exploiting magnetohydrodynamic force. <i>Journal of Food Engineering</i> , 2011 , 106, 35-39	6	13
232	Simple synthesis recipes of porous materials. <i>Microporous and Mesoporous Materials</i> , 2011 , 140, 2-8	5.3	45
231	Evaluation of ordered mesoporous silica as a carrier for poorly soluble drugs: influence of pressure on the structure and drug release. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 3411-3420	3.9	56
230	Novel amorphous microporous silica spheres for controlled release applications. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4295-301	3.9	17
229	Preventing release in the acidic environment of the stomach via occlusion in ordered mesoporous silica enhances the absorption of poorly soluble weakly acidic drugs. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4864-76	3.9	31
228	A non-aqueous synthesis of TiO ₂ /SiO ₂ composites in supercritical CO ₂ for the photodegradation of pollutants. <i>ChemSusChem</i> , 2011 , 4, 1457-63	8.3	16
227	Multilayered supported ionic liquids as catalysts for chemical fixation of carbon dioxide: a high-throughput study in supercritical conditions. <i>ChemSusChem</i> , 2011 , 4, 1830-7	8.3	71
226	Ferromagnetically modified zeolite catalysts for liquid-phase High-Throughput Experimentation. <i>Catalysis Today</i> , 2011 , 159, 120-125	5.3	5
225	Catalytic and molecular separation properties of Zeogrids and Zeotiles. <i>Catalysis Today</i> , 2011 , 168, 17-27	5.3	13
224	Heteropolyacid encapsulated in Cu ₃ (BTC) ₂ nanocrystals: An effective esterification catalyst. <i>Catalysis Today</i> , 2011 , 171, 275-280	5.3	73
223	Modelling of synchrotron SAXS patterns of silicalite-1 zeolite during crystallization. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4318-25	3.6	20

222	Spacious and mechanically flexible mesoporous silica thin film composed of an open network of interlinked nanoslabs. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7692		20
221	Aluminium atomic layer deposition applied to mesoporous zeolites for acid catalytic activity enhancement. <i>Catalysis Science and Technology</i> , 2011 , 1, 218	5.5	37
220	Catalytic activity and extra-large pores of germanosilicate UTL zeolite demonstrated with decane test reaction. <i>Catalysis Science and Technology</i> , 2011 , 1, 246	5.5	29
219	Stability improvement of Cu ₃ (BTC) ₂ metal-organic frameworks under steaming conditions by encapsulation of a Keggin polyoxometalate. <i>Chemical Communications</i> , 2011 , 47, 8037-9	5.8	88
218	Model system to study the influence of aggregation on the hemolytic potential of silica nanoparticles. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1869-75	4	40
217	Zeolites X and A crystallization compared by simultaneous UV/VIS-Raman and X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13730-7	3.6	31
216	Atomic Velocity Projection Method: A New Analysis Method for Vibrational Spectra in Terms of Internal Coordinates for a Better Understanding of Zeolite Nanogrowth. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 1045-61	6.4	8
215	The conflict between in vitro release studies in human biorelevant media and the in vivo exposure in rats of the lipophilic compound fenofibrate. <i>International Journal of Pharmaceutics</i> , 2011 , 414, 118-24	6.5	49
214	Elucidating the photocatalytic degradation pathway of acetaldehyde: An FTIR in situ study under atmospheric conditions. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 630-638	21.8	67
213	Direct growth of Keggin polyoxometalates incorporated copper 1,3,5-benzenetricarboxylate metal organic framework films on a copper metal substrate. <i>Thin Solid Films</i> , 2011 , 519, 5437-5440	2.2	17
212	Effect of Carbon Modification of Particles on Their Incorporation Rate during Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2011 , 158, D515	3.9	9
211	Potential of ordered mesoporous silica for oral delivery of poorly soluble drugs. <i>Therapeutic Delivery</i> , 2011 , 2, 1079-91	3.8	25
210	Bone tissue response to porous and functionalized titanium and silica based coatings. <i>PLoS ONE</i> , 2011 , 6, e24186	3.7	28
209	The relative atherogenicity of VLDL and LDL is dependent on the topographic site. <i>Journal of Lipid Research</i> , 2010 , 51, 1478-85	6.3	10
208	Sol-gel synthesis of micro- and mesoporous silica in strong mineral acid. <i>Studies in Surface Science and Catalysis</i> , 2010 , 801-804	1.8	2
207	Synthesis and characterization of cok-12 ordered mesoporous silica at room temperature under buffered quasi neutral pH. <i>Studies in Surface Science and Catalysis</i> , 2010 , 175, 681-684	1.8	4
206	Fine-tuning of Vanadium Oxide Nanotubes. <i>Studies in Surface Science and Catalysis</i> , 2010 , 249-252	1.8	3
205	Solubility increases associated with crystalline drug nanoparticles: methodologies and significance. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1858-70	5.6	89

204	Growth of itraconazole nanofibers in supersaturated simulated intestinal fluid. <i>Molecular Pharmaceutics</i> , 2010 , 7, 905-13	5.6	17
203	Effective Monte Carlo Scheme for Multicomponent Gas Adsorption and Enantioselectivity in Nanoporous Materials. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2154-2158	6.4	14
202	Catalytic Cracking of 2,2,4-Trimethylpentane on FAU, MFI, and Bimodal Porous Materials: Influence of Acid Properties and Pore Topology. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6815-6823	3.9	14
201	Catalytic Cracking of Methylcyclohexane on FAU, MFI, and Bimodal Porous Materials: Influence of Acid Properties and Pore Topology. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10486-10495	2.9	17
200	Investigation of Nanoparticles Occurring in the Colloidal Silicalite-1 Zeolite Crystallization Process Using Dissolution Experiments. <i>Chemistry of Materials</i> , 2010 , 22, 3619-3629	9.6	21
199	Enantioselective Adsorption Characteristics of Aluminum-Substituted MFI Zeolites. <i>Chemistry of Materials</i> , 2010 , 22, 4591-4601	9.6	15
198	Characterization of the copolymer poly(ethyleneglycol-g-vinylalcohol) as a potential carrier in the formulation of solid dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010 , 74, 239-47	5.7	31
197	Combined use of ordered mesoporous silica and precipitation inhibitors for improved oral absorption of the poorly soluble weak base itraconazole. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010 , 75, 354-65	5.7	101
196	Exploring the aneugenic and clastogenic potential in the nanosize range: A549 human lung carcinoma cells and amorphous monodisperse silica nanoparticles as models. <i>Nanotoxicology</i> , 2010 , 4, 382-95	5.3	84
195	Methods for in situ spectroscopic probing of the synthesis of a zeolite. <i>Chemical Society Reviews</i> , 2010 , 39, 4626-42	58.5	75
194	Influence of size, surface area and microporosity on the in vitro cytotoxic activity of amorphous silica nanoparticles in different cell types. <i>Nanotoxicology</i> , 2010 , 4, 307-18	5.3	115
193	Synthesis and characterization of stable monodisperse silica nanoparticle sols for in vitro cytotoxicity testing. <i>Langmuir</i> , 2010 , 26, 328-35	4	119
192	Hollow filler based mixed matrix membranes. <i>Chemical Communications</i> , 2010 , 46, 2492-4	5.8	68
191	New mesoporous composites of gallia nanoparticles: high-throughput synthesis and catalytic application. <i>Chemical Communications</i> , 2010 , 46, 7712-4	5.8	16
190	Convenient synthesis of Cu ₃ (BTC) ₂ encapsulated Keggin heteropolyacid nanomaterial for application in catalysis. <i>Chemical Communications</i> , 2010 , 46, 8186-8	5.8	144
189	Temperature swing adsorption of NO _x over Keggin type heteropolyacids. <i>Energy and Environmental Science</i> , 2010 , 3, 910	35.4	15
188	Reversible NO _x storage over Ru/Na ⁺ zeolite. <i>Chemical Science</i> , 2010 , 1, 763	9.4	9
187	Kinetics of intermediate-mediated self-assembly in nanosized materials: a generic model. <i>Journal of Chemical Physics</i> , 2010 , 132, 164701	3.9	10

186	Decane Hydroisomerization Test Probing Catalytic Activity and Selectivity of Aluminum and Boron Substituted Extra-Large Pore UTL Zeolite. <i>Topics in Catalysis</i> , 2010 , 53, 1374-1380	2.3	14
185	Alkene epoxidation with mesoporous materials assembled from TS-1 seeds [Is there a hierarchical pore system?]. <i>Journal of Catalysis</i> , 2010 , 269, 367-375	7.3	40
184	Shape-selective diisopropylation of naphthalene in H-Mordenite: Myth or reality?. <i>Journal of Catalysis</i> , 2010 , 270, 60-66	7.3	15
183	Comment on MEL-type Pure-Silica Zeolite Nanocrystals Prepared by an Evaporation-Assisted Two-Stage Synthesis Method as Ultra-Low-k Materials [Advanced Functional Materials, 2010 , 20, 2377-2379]	15.6	8
182	Direct patterning of oriented metal-organic framework crystals via control over crystallization kinetics in clear precursor solutions. <i>Advanced Materials</i> , 2010 , 22, 2685-8	24	195
181	Investigation of the mechanism of colloidal silicalite-1 crystallization by using DLS, SAXS, and ²⁹ Si NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2010 , 16, 2764-74	4.8	55
180	Direct observation of molecular-level template action leading to self-assembly of a porous framework. <i>Chemistry - A European Journal</i> , 2010 , 16, 3926-32	4.8	99
179	Fortschritte auf dem Weg zu einem einfachen chromogenen Kohlenstoffmonoxid-Nachweis. <i>Angewandte Chemie</i> , 2010 , 122, 7794-7795	3.6	4
178	Enantioselective adsorption in achiral zeolites. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3010-3014	6.4	31
177	A rational approach to the ionothermal synthesis of an AlPO ₄ molecular sieve with an LTA-type framework. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4585-8	16.4	56
176	Progress in the chromogenic detection of carbon monoxide. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7629-30	16.4	34
175	Comparison of the complexation between methylprednisolone and different cyclodextrins in solution by ¹ H-NMR and molecular modeling studies. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 3863-3873	3.9	20
174	Synthesis and characterization of the new cyclosilicate hydrate (hexamethyleneimine) ₄ [Si ₈ O ₁₆ (OH) ₄]·12H ₂ O. <i>Microporous and Mesoporous Materials</i> , 2010 , 130, 14-20	5.3	6
173	Aging behavior of pharmaceutical formulations of itraconazole on SBA-15 ordered mesoporous silica carrier material. <i>Microporous and Mesoporous Materials</i> , 2010 , 130, 154-161	5.3	73
172	Phase transitions of V-Mo-W mixed oxides during reduction/re-oxidation cycles. <i>Applied Catalysis A: General</i> , 2010 , 379, 155-165	5.1	8
171	On the application of chiral amplification via adsorption. <i>Chemical Engineering Science</i> , 2010 , 65, 6478-6485	4.5	6
170	Hexakis(adamantyltrimethylammonium) cyclooctasilicate tetratetracontahydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010 , 66, o619-22		
169	Carbon black and titanium dioxide nanoparticles elicit distinct apoptotic pathways in bronchial epithelial cells. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 10	8.4	170

168	The nanosilica hazard: another variable entity. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 39	8.4	526
167	Effects of Silica Sources on Nanoporous Organosilicate Films Templated with Tetraalkylammonium Cations. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1156, 1		
166	Itraconazole/TPGS/Aerosil200 solid dispersions: characterization, physical stability and in vivo performance. <i>European Journal of Pharmaceutical Sciences</i> , 2009 , 38, 270-8	5.1	45
165	Formulate-ability of ten compounds with different physicochemical profiles in SMEDDS. <i>European Journal of Pharmaceutical Sciences</i> , 2009 , 38, 479-88	5.1	51
164	Solid state characterization and crystal structure from X-ray powder diffraction of two polymorphic forms of ranitidine base. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 146-58	3.9	11
163	A screening study of surface stabilization during the production of drug nanocrystals. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 2091-103	3.9	163
162	Ordered mesoporous silica material SBA-15: a broad-spectrum formulation platform for poorly soluble drugs. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 2648-58	3.9	212
161	Super-resolution reactivity mapping of nanostructured catalyst particles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9285-9	16.4	157
160	Oxidative stress and proinflammatory effects of carbon black and titanium dioxide nanoparticles: role of particle surface area and internalized amount. <i>Toxicology</i> , 2009 , 260, 142-9	4.4	264
159	Shape Selective Chemistries with Modified Mordenite Zeolites. <i>Topics in Catalysis</i> , 2009 , 52, 1175-1181	2.3	21
158	Design of Optimum Zeolite Pore System for Central Hydrocracking of Long-Chain n-Alkanes based on a Single-Event Microkinetic Model. <i>Topics in Catalysis</i> , 2009 , 52, 1251-1260	2.3	29
157	Multi-level Modeling of SilicaTemplate Interactions During Initial Stages of Zeolite Synthesis. <i>Topics in Catalysis</i> , 2009 , 52, 1261-1271	2.3	27
156	Forty Years of Designing Catalytic and Adsorptive Sites in FAU Type Zeolites at K.U. Leuven. <i>Topics in Catalysis</i> , 2009 , 52, 1119-1130	2.3	7
155	Size-dependent cytotoxicity of monodisperse silica nanoparticles in human endothelial cells. <i>Small</i> , 2009 , 5, 846-53	11	474
154	Characterization of spin-on zeolite films prepared from Silicalite-1 nanoparticle suspensions. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 458-466	5.3	20
153	Natural suspended particle fragmentation in magnetic scale prevention device. <i>Chemical Engineering Science</i> , 2009 , 64, 1904-1906	4.4	16
152	Downscaling drug nanosuspension production: processing aspects and physicochemical characterization. <i>AAPS PharmSciTech</i> , 2009 , 10, 44-53	3.9	45
151	Quantitative three-dimensional modeling of zeolite through discrete electron tomography. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4769-73	16.4	64

150	Connectivity Analysis of the Clear Sol Precursor of Silicalite: Are Nanoparticles Aggregated Oligomers or Silica Particles?. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20827-20836	3.8	45
149	Luminescence of LaF ₃ :Ln ³⁺ Nanocrystal Dispersions in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13532-13538	3.8	41
148	Viscosity sensing in heated alkaline zeolite synthesis media. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2854-7	3.6	19
147	Synthesis of highly stable pure-silica thin-walled hexagonally ordered mesoporous material. <i>Chemical Communications</i> , 2009 , 4287-9	5.8	17
146	Convenient synthesis of ordered mesoporous silica at room temperature and quasi-neutral pH. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8290		67
145	Magnetic field assisted nanoparticle dispersion. <i>Chemical Communications</i> , 2009 , 47-9	5.8	19
144	Drying of crystalline drug nanosuspensions-the importance of surface hydrophobicity on dissolution behavior upon redispersion. <i>European Journal of Pharmaceutical Sciences</i> , 2008 , 35, 127-35	5.1	159
143	Alternative matrix formers for nanosuspension solidification: Dissolution performance and X-ray microanalysis as an evaluation tool for powder dispersion. <i>European Journal of Pharmaceutical Sciences</i> , 2008 , 35, 344-53	5.1	61
142	High-throughput study of phenytoin solid dispersions: formulation using an automated solvent casting method, dissolution testing, and scaling-up. <i>ACS Combinatorial Science</i> , 2008 , 10, 637-43		21
141	Physical state of poorly water soluble therapeutic molecules loaded into SBA-15 ordered mesoporous silica carriers: a case study with itraconazole and ibuprofen. <i>Langmuir</i> , 2008 , 24, 8651-9	4	185
140	MFI Fingerprint: How Pentasil-Induced IR Bands Shift during Zeolite Nanogrowth. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9186-9191	3.8	50
139	Increasing the oral bioavailability of the poorly water soluble drug itraconazole with ordered mesoporous silica. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 69, 223-30	5.7	204
138	Microcrystalline cellulose, a useful alternative for sucrose as a matrix former during freeze-drying of drug nanosuspensions - a case study with itraconazole. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 70, 590-6	5.7	73
137	Solidification of Emulsified Polymer Solutions via Phase Inversion (SEMPI): A Generic Way To Prepare Polymers with Controlled Porosity. <i>Chemistry of Materials</i> , 2008 , 20, 3457-3465	9.6	22
136	Binary Phase Diagram of Tetraethyl Orthosilicate and Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2573-2575	2.8	5
135	Zeolite-inspired low-k dielectrics overcoming limitations of zeolite films. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17528-36	16.4	34
134	Reaction of trimethylchlorosilane in spin-on Silicalite-1 zeolite film. <i>Langmuir</i> , 2008 , 24, 4894-900	4	19
133	Cage and Window Effects in the Adsorption of n-Alkanes on Chabazite and SAPO-34. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16593-16599	3.8	60

132	Nominal and effective dosimetry of silica nanoparticles in cytotoxicity assays. <i>Toxicological Sciences</i> , 2008 , 104, 155-62	4.4	169
131	Ultraviolet-Assisted Curing of Organosilicate Glass Low-k Dielectric by Excimer Lamps. <i>Journal of the Electrochemical Society</i> , 2008 , 155, G231	3.9	20
130	Optical Property Changes in Low-k Films upon Ultraviolet-Assisted Curing. <i>Journal of the Electrochemical Society</i> , 2008 , 155, G115	3.9	38
129	Hydrothermal Zeolite Synthesis 2008 , 160		4
128	Nanoporous Organosilicate Films Prepared in Acidic Conditions Using Tetraalkylammonium Bromide Porogens. <i>Advanced Functional Materials</i> , 2008 , 18, 3332-3339	15.6	8
127	Evidence of Large Voids in Pure-Silica-Zeolite Low-k Dielectrics Synthesized by Spin-on of Nanoparticle Suspensions. <i>Advanced Materials</i> , 2008 , 20, 3110-3116	24	33
126	A new methodology to probe Shape Selectivity in Porous Adsorbents. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 607-613	5.3	14
125	Ordered mesoporous silica induces pH-independent supersaturation of the basic low solubility compound itraconazole resulting in enhanced transepithelial transport. <i>International Journal of Pharmaceutics</i> , 2008 , 357, 169-79	6.5	74
124	Selective adsorption and separation of ortho-substituted alkylaromatics with the microporous aluminum terephthalate MIL-53. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14170-8	16.4	345
123	Prospects of transition interface sampling simulations for the theoretical study of zeolite synthesis. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1044-51	3.6	8
122	Characterization of a molecular sieve coating using ellipsometric porosimetry. <i>Langmuir</i> , 2007 , 23, 12811-6	4.6	36
121	Combined NMR, SAXS, and DLS Study of Concentrated Clear Solutions Used in Silicalite-1 Zeolite Synthesis. <i>Chemistry of Materials</i> , 2007 , 19, 3448-3454	9.6	73
120	TEM Observation of Aggregation Steps in Room-Temperature Silicalite-1 Zeolite Formation. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14283-14285	3.8	39
119	Tunability of Pore Diameter and Particle Size of Amorphous Microporous Silica for Diffusive Controlled Release of Drug Compounds. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13404-13409	3.8	36
118	Effect of Gravity on the Gelation of Silica Sols. <i>Chemistry of Materials</i> , 2007 , 19, 660-664	9.6	12
117	Ultraviolet-assisted curing of polycrystalline pure-silica zeolites: hydrophobization, functionalization, and cross-linking of grains. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9288-9	16.4	38
116	Formation of ZSM-22 zeolite catalytic particles by fusion of elementary nanorods. <i>Chemistry - A European Journal</i> , 2007 , 13, 10070-7	4.8	64
115	Selective adsorption and separation of xylene isomers and ethylbenzene with the microporous vanadium(IV) terephthalate MIL-47. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4293-7	16.4	462

114	Removal of cyclopentadiene from 1-octene by transition metal containing zeolites [Part 2: Stabilization of CoCaX zeolite by its cation distribution. <i>Microporous and Mesoporous Materials</i> , 2007 , 103, 11-19	5.3	27
113	Kinetic experiments and modeling of NO oxidation and SCR of NO _x with decane over Cu- and Fe-MFI catalysts. <i>Applied Catalysis B: Environmental</i> , 2007 , 70, 53-57	21.8	24
112	Ultra-violet-assisted cure of spin-on silicalite-1 films. <i>Studies in Surface Science and Catalysis</i> , 2007 , 170, 594-599	1.8	3
111	Enhanced release of itraconazole from ordered mesoporous SBA-15 silica materials. <i>Chemical Communications</i> , 2007 , 1375-7	5.8	178
110	Catalytic carbon oxidation over ruthenium-based catalysts. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3106-9	16.4	41
109	Catalytic Carbon Oxidation Over Ruthenium-Based Catalysts. <i>Angewandte Chemie</i> , 2006 , 118, 3178-3181	3.6	7
108	n- and isoalkane adsorption mechanisms on zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8551-8	3.4	34
107	A unified single-event microkinetic model for alkane hydroconversion in different aggregation states on Pt/H-USY-zeolites. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6750-8	3.4	20
106	Platinum particle size and support effects in NO(x) mediated carbon oxidation over platinum catalysts. <i>Environmental Science & Technology</i> , 2006 , 40, 2727-33	10.3	35
105	Photoluminescence response of terbium-exchanged MFI-type materials to Si/Al ratio, texture, and hydration state. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25707-15	3.4	13
104	Synthesis of MTT zeolite catalysts with surface Al depletion. <i>Studies in Surface Science and Catalysis</i> , 2006 , 162, 873-880	1.8	2
103	Synthesis and characterization of nanocrystal zeolite/mesoporous matrix composite material. <i>Studies in Surface Science and Catalysis</i> , 2006 , 162, 259-266	1.8	8
102	Silica filled poly(1-trimethylsilyl-1-propyne) nanocomposite membranes: Relation between the transport of gases and structural characteristics. <i>Journal of Membrane Science</i> , 2006 , 278, 83-91	9.6	90
101	Template-aluminosilicate structures at the early stages of zeolite ZSM-5 formation. A combined preparative, solid-state NMR, and computational study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22767-74	2.4	51
100	Characterization of COK-5, Member of a New Family of Zeolite Material with Multiple Channel Systems. <i>Chemistry of Materials</i> , 2005 , 17, 5618-5624	9.6	10
99	Kinetic Experiments and Modeling of a Complex DeNO _x System: Decane Selective Catalytic Reduction of NO _x in the Gas Phase and over an Fe-MFI Type Zeolite Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 4523-4533	3.9	6
98	Catalytic carbon oxidation over Ag/Al ₂ O ₃ . <i>Journal of Catalysis</i> , 2005 , 236, 172-175	7.3	30
97	Zeolite-2: A microporous analogue of MCM-48. <i>Solid State Sciences</i> , 2005 , 7, 861-867	3.4	11

96	Rotational entropy driven separation of alkane/isoalkane mixtures in zeolite cages. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 400-3	16.4	47
95	Tailored catalytic propene trimerization over acidic zeolites with tubular pores. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5687-90	16.4	29
94	Rotational Entropy Driven Separation of Alkane/Isoalkane Mixtures in Zeolite Cages. <i>Angewandte Chemie</i> , 2005 , 117, 404-407	3.6	17
93	Tailored Catalytic Propene Trimerization over Acidic Zeolites with Tubular Pores. <i>Angewandte Chemie</i> , 2005 , 117, 5833-5836	3.6	6
92	Design and synthesis of hierarchical materials from ordered zeolitic building units. <i>Chemistry - A European Journal</i> , 2005 , 11, 4306-13	4.8	93
91	Synthesis and characterization of zeogrid molecular sieves. <i>Comptes Rendus Chimie</i> , 2005 , 8, 379-390	2.7	7
90	Unexpected microgravity effect during the self-organization of silicalite-1 nanoslabs. <i>Microgravity Science and Technology</i> , 2005 , 16, 74-78	1.6	
89	Skeletal isomerization of octadecane on bifunctional ZSM-23 zeolite catalyst. <i>Catalysis Letters</i> , 2005 , 100, 235-242	2.8	35
88	Decane hydroconversion on bifunctional Zeogrid and nano-zeolite assembled from aluminosilicate nanoslabs of MFI framework type. <i>Applied Catalysis A: General</i> , 2004 , 257, 7-17	5.1	29
87	Reaction Mechanisms of Lean-Burn Hydrocarbon SCR over Zeolite Catalysts. <i>Topics in Catalysis</i> , 2004 , 28, 119-130	2.3	48
86	Alkylcarbenium Ion Concentrations in Zeolite Pores During Octane Hydrocracking on Pt/H-USY Zeolite. <i>Catalysis Letters</i> , 2004 , 94, 81-88	2.8	57
85	Adsorption chemistry of sulfur dioxide in hydrated Na-Y zeolite. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3722-4	16.4	10
84	Understanding the role of sodium during adsorption: a force field for alkanes in sodium-exchanged faujasites. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11377-86	16.4	222
83	Adsorption Competition Effects in Hydroconversion of Alkane Mixtures on Zeolites. <i>International Journal of Chemical Reactor Engineering</i> , 2003 , 1,	1.2	3
82	Molecular Competition Effects in Liquid-Phase Adsorption of Long-Chain n-Alkane Mixtures in ZSM-5 Zeolite Pores. <i>Angewandte Chemie</i> , 2003 , 115, 2880-2883	3.6	9
81	Molecular competition effects in liquid-phase adsorption of long-chain n-alkane mixtures in ZSM-5 zeolite pores. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2774-7	16.4	42
80	Development of a fixed-bed continuous-flow high-throughput reactor for long-chain n-alkane hydroconversion. <i>Applied Catalysis A: General</i> , 2003 , 243, 1-13	5.1	42
79	Influence of the zeolite composition on the hydro-isomerisation and hydrocracking of alkanes on Pt/USY zeolites: modelling of the reaction kinetics using an adsorption-reaction approach. <i>Applied Catalysis A: General</i> , 2003 , 246, 17-28	5.1	26

78	Combined in situ ^{29}Si NMR and small-angle X-ray scattering study of precursors in MFI zeolite formation from silicic acid in TPAOH solutions. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3518	3.6	60
77	Tracer Chromatographic Study of Pore and Pore Mouth Adsorption of Linear and Monobranched Alkanes on ZSM-22 Zeolite. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 398-406	3.4	67
76	Packing Effects in the Liquid-Phase Adsorption of C ₅ -C ₂₂ n-Alkanes on ZSM-5. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 10760-10766	3.4	48
75	n-Alkane hydroconversion on Zeogrid and colloidal ZSM-5 assembled from aluminosilicate nanoslabs of MFI framework type. <i>Chemical Communications</i> , 2003 , 1888-9	5.8	14
74	Reply to the Comment on Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOH/H ₂ SiO ₃ /H ₂ O System. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3333-3334	3.4	40
73	New Evidence for Precursor Species in the Formation of MFI Zeolite in the Tetrapropylammonium Hydroxide/Tetraethyl Orthosilicate/Water System. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 4897-4900	3.4	73
72	Zeolite ZSM-5 synthesized in space: catalysts with reduced external surface activity. <i>Microporous and Mesoporous Materials</i> , 2001 , 46, 223-236	5.3	15
71	Zeosil-Nanoblöcke: Baueinheiten in der nPr ₄ N ⁺ -gesteuerten Synthese von Zeolith MFI. <i>Angewandte Chemie</i> , 2001 , 113, 2707-2710	3.6	30
70	Zeosil Nanoslabs: Building Blocks in nPr ₄ N ⁺ -Mediated Synthesis of MFI Zeolite. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2637-2640	16.4	159
69	Dimethyl Branching of Long n-Alkanes in the Range from Decane to Tetracosane on Pt/H-ZSM-22 Bifunctional Catalyst. <i>Journal of Catalysis</i> , 2001 , 203, 213-231	7.3	83
68	A Comparative Spectroscopic Study on the Location of Benzene and Cations in a Series of Si-Rich NaY Zeolites. <i>Langmuir</i> , 2001 , 17, 1267-1276	4	13
67	Maßgeschneiderte Alken-Oligomerisierung mit Zeolith H-ZSM-57. <i>Angewandte Chemie</i> , 2000 , 112, 4547-4550	5.0	8
66	Tailored Alkene Oligomerization with H-ZSM-57 Zeolite. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4376-4379	16.4	42
65	Crystallization of MAZ-type zeolites using tetramethylammonium, sodium and n-hexane derivatives as structure- and composition-directing agents. <i>Microporous and Mesoporous Materials</i> , 2000 , 35-36, 555-572	5.3	23
64	Monomethyl-Branching of Long n-Alkanes in the Range from Decane to Tetracosane on Pt/H-ZSM-22 Bifunctional Catalyst. <i>Journal of Catalysis</i> , 2000 , 190, 39-48	7.3	143
63	Evidence for Alkylcarbenium Ion Reaction Intermediates from Intrinsic Reaction Kinetics of C ₆ -C ₉ n-Alkane Hydroisomerization and Hydrocracking on Pt/H ₂ and Pt/USY Zeolites. <i>Journal of Catalysis</i> , 2000 , 190, 469-473	7.3	42
62	Pd Segregation to the Surface of Bimetallic Pt ₂ Pd Particles Supported on H-Zeolite Evidenced with X-Ray Photoelectron Spectroscopy and Argon Cation Bombardment. <i>Journal of Catalysis</i> , 2000 , 193, 108-114	7.3	33
61	Incorporation of nano-sized zeolites in membranes. <i>Chemical Communications</i> , 2000 , 2467-2468	5.8	97

60	Competitive physisorption effects in hydroisomerisation of n-alkane mixtures on Pt/Y and Pt/USY zeolite catalysts. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 1007-1014	3.6	25
59	Phosphate-Based Zeolites and Molecular Sieves 1999 , 53-80		8
58	Modeling of adsorption and bifunctional conversion of n-alkanes on Pt/H-ZSM-22 zeolite catalyst. <i>Chemical Engineering Science</i> , 1999 , 54, 3553-3561	4.4	33
57	Activation of Small Alkanes on Solid Acids. An H/D Exchange Study by Liquid and Solid-State NMR: The Activation Energy and the Inhibiting Effect of Carbon Monoxide. <i>Journal of Catalysis</i> , 1999 , 181, 265-270	7.3	57
56	Kinetics of Hydrogen-Deuterium Exchange Reactions of Methane and Deuterated Acid FAU- and MFI-Type Zeolites. <i>Journal of Catalysis</i> , 1999 , 183, 355-367	7.3	53
55	Oligomerization of Hex-1-ene over Acidic Aluminosilicate Zeolites, MCM-41, and Silica-Alumina Co-gel Catalysts: A Comparative Study. <i>Journal of Catalysis</i> , 1999 , 184, 262-267	7.3	46
54	NOx removal from exhaust gas from lean burn internal combustion engines through adsorption on FAU type zeolites cation exchanged with alkali metals and alkaline earth metals. <i>Applied Catalysis B: Environmental</i> , 1999 , 21, 215-220	21.8	50
53	Oriented FAU Zeolite Films on Micrometer-Sized EMT Crystals. <i>Advanced Materials</i> , 1999 , 11, 561-564	24	53
52	Transition Metal Ions in Microporous Crystalline Aluminophosphates: Isomorphous Substitution. <i>European Journal of Inorganic Chemistry</i> , 1999 , 1999, 565-577	2.3	93
51	Characterization of Nanosized Material Extracted from Clear Suspensions for MFI Zeolite Synthesis. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4960-4964	3.4	200
50	Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOH/H ₂ EO/Al ₂ O ₃ System. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4965-4971	3.4	274
49	Determination of the ALT1/ALT2 Ratio in MAZ Zeolites Using Line Shapes of MQ MAS NMR. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8093-8096	3.4	14
48	Zeolite Effects in Organic Catalysis 1999 , 377-436		5
47	Oriented FAU Zeolite Films on Micrometer-Sized EMT Crystals 1999 , 11, 561		1
46	Iodide Assisted Zeolite Catalysed 1,4-Addition of Water to Butadiene Monoxide. <i>Journal of Catalysis</i> , 1998 , 175, 312-315	7.3	3
45	1-Hexene Oligomerization in Liquid, Vapor, and Supercritical Phases over Beidellite and Ultrastable Y Zeolite Catalysts. <i>Journal of Catalysis</i> , 1998 , 179, 477-482	7.3	33
44	Verringerung des NOx-Gehalts in Abgasen aus Magermixmotoren durch NO2-Reduktion an silberhaltigen Zeolithkatalysatoren. <i>Angewandte Chemie</i> , 1998 , 110, 2003-2006	3.6	8
43	NOx Abatement in Exhaust from Lean-Burn Combustion Engines by Reduction of NO2 over Silver-Containing Zeolite Catalysts. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 1901-1903	16.4	73

42	The synthesis of zeolites under micro-gravity conditions: a review. <i>Microporous and Mesoporous Materials</i> , 1998 , 23, 119-136	5.3	17
41	An infrared study on the location of benzene molecules and cations in Cs ⁺ -exchanged EMT zeolite. <i>Microporous and Mesoporous Materials</i> , 1998 , 25, 151-167	5.3	16
40	High-Temperature Low-Pressure Adsorption of Branched C ₅ -C ₈ Alkanes on Zeolite Beta, ZSM-5, ZSM-22, Zeolite Y, and Mordenite. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 4588-4597	3.4	191
39	Chromatographic Study of Adsorption of n-Alkanes on Zeolites at High Temperatures. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3077-3081	3.4	147
38	Physicochemical Characterization of Silicalite-1 Nanophase Material. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2633-2639	3.4	150
37	Hydrocracking of n-Alkane Mixtures on Pt/H ₂ Zeolite: Chain Length Dependence of the Adsorption and the Kinetic Constants. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 3242-3247	3.0	66
36	The scientific legacy of the late Richard M. Barrer, FRS. <i>Microporous Materials</i> , 1997 , 8, 283-284		3
35	Silicon and Aluminum Ordering in Frameworks of FAU and EMT Aluminosilicate Zeolites Crystallized in the Presence of Crown Ethers. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 4970-4975		18
34	Chemistry of the calcination of 15-crown-5 and 18-crown-6 ethers occluded in faujasite polytype zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 3281		8
33	Isomerization and hydrocracking of decane and heptadecane on cubic and hexagonal faujasite zeolites and their intergrowth structures. <i>Studies in Surface Science and Catalysis</i> , 1996 , 101, 721-729	1.8	14
32	Amorphous microporous mixed oxides as selective redox catalysts. <i>Catalysis Letters</i> , 1996 , 38, 209-214	2.8	62
31	Formselektive Katalyse mit mikroporösen amorphen Mischoxiden. <i>Angewandte Chemie</i> , 1996 , 108, 222-224		19
30	Shape-Selective Catalysis with Microporous Amorphous Mixed Oxides. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 180-182		28
29	Use of ¹³ C CP NMR spectroscopy for the quantification of FAU/EMT zeolite intergrowths synthesized with 15-crown-5 and 18-crown-6 ethers. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 1837-1839		6
28	Selective Isomerisierung kettenförmiger Kohlenwasserstoffe an der äußeren Oberfläche von Zeolithkristallen. <i>Angewandte Chemie</i> , 1995 , 107, 2726-2728	3.6	28
27	Selective Isomerization of Hydrocarbon Chains on External Surfaces of Zeolite Crystals. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2528-2530		169
26	Molecular shape selectivity of EUO zeolites. <i>Microporous Materials</i> , 1995 , 4, 123-130		41
25	Zeolites and their Mechanism of Synthesis. <i>Studies in Surface Science and Catalysis</i> , 1994 , 84, 3-21	1.8	53

24	Micropore structure of zeolite MCM-22 as determined by the decane catalytic test reaction. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1671		42
23	Role of 18-Crown-6 and 15-Crown-5 Ethers in the Crystallization of Polytype Faujasite Zeolites. <i>Journal of the American Chemical Society</i> , 1994 , 116, 2950-2957	16.4	70
22	The Chemistry of the Dealumination of Faujasite Zeolites with Silicon Tetrachloride. <i>Studies in Surface Science and Catalysis</i> , 1991 , 355-379	1.8	5
21	Chapter 12 Introduction to Acid Catalysis with Zeolites in Hydrocarbon Reactions. <i>Studies in Surface Science and Catalysis</i> , 1991 , 445-496	1.8	66
20	Structure and effective pore size of the dehydrated forms of the molecular sieve VPI-5. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 10025-10031		38
19	Dealumination of zeolite Y with SiCl ₄ : a two-step reaction. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 1418		14
18	Effects of substitution in SAPO-n Frameworks on their Properties as Acid Catalysts. <i>NATO ASI Series Series B: Physics</i> , 1990 , 1-52		22
17	The very large pore molecular sieve VPI-5: <i>Applied Catalysis</i> , 1989 , 56, L21-L27		70
16	Synthesis and shape-selective properties of ZSM-22. <i>Applied Catalysis</i> , 1989 , 48, 137-148		142
15	Synthesis of Microporous Silicoaluminophosphates in Hexanol/Water Biphasic Systems. <i>ACS Symposium Series</i> , 1989 , 305-328	0.4	5
14	Factors affecting the synthesis efficiency of zeolite BETA from aluminosilicate gels containing alkali and tetraethylammonium ions. <i>Zeolites</i> , 1988 , 8, 46-53		97
13	Synthesis and Characterisation of Silicon-Rich Sapo-5. <i>Studies in Surface Science and Catalysis</i> , 1988 , 37, 97-105	1.8	60
12	Crystallization mechanism of zeolite beta from (TEA) ₂ O, Na ₂ O and K ₂ O containing aluminosilicate gels. <i>Applied Catalysis</i> , 1987 , 31, 35-64		193
11	Synthesis of zeolite ZSM-12 in the system (MTEA) ₂ O-Na ₂ O-SiO ₂ -Al ₂ O ₃ -H ₂ O. <i>Zeolites</i> , 1987 , 7, 458-462		78
10	Attempts to rationalize the distribution of hydrocracked products. III. mechanistic aspects of isomerization and hydrocracking of branched alkanes on ideal bifunctional large-pore zeolite catalysts. <i>Catalysis Today</i> , 1987 , 1, 435-453	5.3	48
9	The potential and limitations of the n-decane hydroconversion as a test reaction for characterization of the void space of molecular sieve zeolites. <i>Zeolites</i> , 1986 , 6, 334-348		109
8	Exploration of the Void Size and Structure of Zeolites and Molecular Sieves Using Chemical Reactions. <i>Studies in Surface Science and Catalysis</i> , 1986 , 28, 23-32	1.8	19
7	Primary Cracking Modes Of Long Chain Paraffinic Hydrocarbons In Open Acid Zeolites. <i>Studies in Surface Science and Catalysis</i> , 1985 , 20, 427-436	1.8	6

6	Comparison of acid- to metal-catalysed conversion of n-decane and cyclodecane on ZSM-5 and faujasite-type zeolites. <i>Journal of Molecular Catalysis</i> , 1984 , 27, 11-23		17
5	Estimation of the void structure and pore dimensions of molecular sieve zeolites using the hydroconversion of n-decane. <i>Zeolites</i> , 1984 , 4, 98-107		203
4	Isomerization and hydrocracking of C9 through C16 n-alkanes on Pt/HZSM-5 zeolite. <i>Applied Catalysis</i> , 1983 , 8, 123-141		293
3	Shape-selectivity changes in high-silica zeolites. <i>Faraday Discussions of the Chemical Society</i> , 1981 , 72, 353		138
2	Shape selectivity effects in the hydroconversion of perhydrophenanthrene over bifunctional catalysts. <i>Catalysis Science and Technology</i> ,	5.5	2
1	High-entropy perovskite oxides: A versatile class of materials for nitrogen reduction reactions. <i>Science China Materials</i> , 1	7.1	1