

# Johan A Martens

## List of Publications by Citations

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473  
papers

20,432  
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73  
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119  
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514  
ext. papers

22,243  
ext. citations

7.8  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
473	The nanosilica hazard: another variable entity. <i>Particle and Fibre Toxicology</i> , <b>2010</b> , 7, 39	8.4	526
472	Size-dependent cytotoxicity of monodisperse silica nanoparticles in human endothelial cells. <i>Small</i> , <b>2009</b> , 5, 846-53	11	474
471	Selective adsorption and separation of xylene isomers and ethylbenzene with the microporous vanadium(IV) terephthalate MIL-47. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 4293-7	16.4	462
470	Selective adsorption and separation of ortho-substituted alkylaromatics with the microporous aluminum terephthalate MIL-53. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14170-8	16.4	345
469	Nanoscale intimacy in bifunctional catalysts for selective conversion of hydrocarbons. <i>Nature</i> , <b>2015</b> , 528, 245-8	50.4	318
468	Tailoring nanoporous materials by atomic layer deposition. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 5242-53	58.5	294
467	Isomerization and hydrocracking of C9 through C16 n-alkanes on Pt/HZSM-5 zeolite. <i>Applied Catalysis</i> , <b>1983</b> , 8, 123-141		293
466	Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOH/H <sub>2</sub> EO/20 System. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 4965-4971	3.4	274
465	Oxidative stress and proinflammatory effects of carbon black and titanium dioxide nanoparticles: role of particle surface area and internalized amount. <i>Toxicology</i> , <b>2009</b> , 260, 142-9	4.4	264
464	Understanding the role of sodium during adsorption: a force field for alkanes in sodium-exchanged faujasites. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 11377-86	16.4	222
463	Ordered mesoporous silica material SBA-15: a broad-spectrum formulation platform for poorly soluble drugs. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 2648-58	3.9	212
462	Increasing the oral bioavailability of the poorly water soluble drug itraconazole with ordered mesoporous silica. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2008</b> , 69, 223-30	5.7	204
461	Estimation of the void structure and pore dimensions of molecular sieve zeolites using the hydroconversion of n-decane. <i>Zeolites</i> , <b>1984</b> , 4, 98-107		203
460	Characterization of Nanosized Material Extracted from Clear Suspensions for MFI Zeolite Synthesis. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 4960-4964	3.4	200
459	Direct patterning of oriented metal-organic framework crystals via control over crystallization kinetics in clear precursor solutions. <i>Advanced Materials</i> , <b>2010</b> , 22, 2685-8	24	195
458	Crystallization mechanism of zeolite beta from (TEA) <sub>2</sub> O, Na <sub>2</sub> O and K <sub>2</sub> O containing aluminosilicate gels.. <i>Applied Catalysis</i> , <b>1987</b> , 31, 35-64		193
457	High-Temperature Low-Pressure Adsorption of Branched C <sub>5-8</sub> Alkanes on Zeolite Beta, ZSM-5, ZSM-22, Zeolite Y, and Mordenite. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 4588-4597	3.4	191

456	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> , <b>2008</b> , 24, 8651-9	4	185
455	Enhanced release of itraconazole from ordered mesoporous SBA-15 silica materials. <i>Chemical Communications</i> , <b>2007</b> , 1375-7	5.8	178
454	Carbon black and titanium dioxide nanoparticles elicit distinct apoptotic pathways in bronchial epithelial cells. <i>Particle and Fibre Toxicology</i> , <b>2010</b> , 7, 10	8.4	170
453	Nominal and effective dosimetry of silica nanoparticles in cytotoxicity assays. <i>Toxicological Sciences</i> , <b>2008</b> , 104, 155-62	4.4	169
452	Selective Isomerization of Hydrocarbon Chains on External Surfaces of Zeolite Crystals. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 2528-2530		169
451	Monolithic cells for solar fuels. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7963-81	58.5	165
450	A screening study of surface stabilization during the production of drug nanocrystals. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 2091-103	3.9	163
449	Drying of crystalline drug nanosuspensions-the importance of surface hydrophobicity on dissolution behavior upon redispersion. <i>European Journal of Pharmaceutical Sciences</i> , <b>2008</b> , 35, 127-35	5.1	159
448	Zeosil Nanoslabs: Building Blocks in nPr N -Mediated Synthesis of MFI Zeolite. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 2637-2640	16.4	159
447	Super-resolution reactivity mapping of nanostructured catalyst particles. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9285-9	16.4	157
446	Polymer supported ZIF-8 membranes prepared via an interfacial synthesis method. <i>Chemical Communications</i> , <b>2015</b> , 51, 918-20	5.8	150
445	Physicochemical Characterization of Silicalite-1 Nanophase Material. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 2633-2639	3.4	150
444	Chromatographic Study of Adsorption of n-Alkanes on Zeolites at High Temperatures. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3077-3081	3.4	147
443	Convenient synthesis of Cu <sub>3</sub> (BTC) <sub>2</sub> encapsulated Keggin heteropolyacid nanomaterial for application in catalysis. <i>Chemical Communications</i> , <b>2010</b> , 46, 8186-8	5.8	144
442	Design of zeolite by inverse sigma transformation. <i>Nature Materials</i> , <b>2012</b> , 11, 1059-64	27	143
441	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> , <b>2000</b> , 190, 39-48	7.3	143
440	Synthesis and shape-selective properties of ZSM-22. <i>Applied Catalysis</i> , <b>1989</b> , 48, 137-148		142
439	Fine tuning of the metalorganic framework Cu <sub>3</sub> (BTC) <sub>2</sub> HKUST-1 crystal size in the 100 nm to 5 micron range. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13742		139

438	Shape-selectivity changes in high-silica zeolites. <i>Faraday Discussions of the Chemical Society</i> , <b>1981</b> , 72, 353		138
437	The Chemical Route to a Carbon Dioxide Neutral World. <i>ChemSusChem</i> , <b>2017</b> , 10, 1039-1055	8.3	129
436	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> , <b>2014</b> , 16, 695-707	10	125
435	ZIF-71 as a potential filler to prepare pervaporation membranes for bio-alcohol recovery. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10034-10040	13	124
434	NH2-MIL-53(Al): a high-contrast reversible solid-state nonlinear optical switch. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8314-7	16.4	121
433	Ternary Ag/MgO-SiO <sub>2</sub> catalysts for the conversion of ethanol into butadiene. <i>ChemSusChem</i> , <b>2015</b> , 8, 994-1008	8.3	119
432	Synthesis and characterization of stable monodisperse silica nanoparticle sols for in vitro cytotoxicity testing. <i>Langmuir</i> , <b>2010</b> , 26, 328-35	4	119
431	Molecular shape-selectivity of MFI zeolite nanosheets in n-decane isomerization and hydrocracking. <i>Journal of Catalysis</i> , <b>2013</b> , 300, 70-80	7.3	118
430	Influence of size, surface area and microporosity on the in vitro cytotoxic activity of amorphous silica nanoparticles in different cell types. <i>Nanotoxicology</i> , <b>2010</b> , 4, 307-18	5.3	115
429	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> , <b>1986</b> , 6, 334-348		109
428	Single molecule methods for the study of catalysis: from enzymes to heterogeneous catalysts. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 990-1006	58.5	105
427	Copper benzene tricarboxylate metal-organic framework with wide permanent mesopores stabilized by Keggin polyoxometallate ions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10911-9	16.4	105
426	Plasmonic gold/silver alloy on TiO <sub>2</sub> photocatalysts with tunable visible light activity. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 156-157, 116-121	21.8	103
425	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> , <b>2010</b> , 75, 354-65	5.7	101
424	Highly selective gas separation membrane using in situ amorphised metal-organic frameworks. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2342-2351	35.4	100
423	Direct observation of molecular-level template action leading to self-assembly of a porous framework. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 3926-32	4.8	99
422	Cr-MIL-101 encapsulated Keggin phosphotungstic acid as active nanomaterial for catalysing the alcoholysis of styrene oxide. <i>Green Chemistry</i> , <b>2014</b> , 16, 1351-1357	10	98
421	Incorporation of nano-sized zeolites in membranes. <i>Chemical Communications</i> , <b>2000</b> , 2467-2468	5.8	97

4 <sup>20</sup>	Factors affecting the synthesis efficiency of zeolite BETA from aluminosilicate gels containing alkali and tetraethylammonium ions. <i>Zeolites</i> , <b>1988</b> , 8, 46-53		97
4 <sup>19</sup>	Hydroisomerization of emerging renewable hydrocarbons using hierarchical Pt/H-ZSM-22 catalyst. <i>ChemSusChem</i> , <b>2013</b> , 6, 421-5	8.3	94
4 <sup>18</sup>	Design and synthesis of hierarchical materials from ordered zeolitic building units. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 4306-13	4.8	93
4 <sup>17</sup>	Transition Metal Ions in Microporous Crystalline Aluminophosphates: Isomorphous Substitution. <i>European Journal of Inorganic Chemistry</i> , <b>1999</b> , 1999, 565-577	2.3	93
4 <sup>16</sup>	Silica filled poly(1-trimethylsilyl-1-propyne) nanocomposite membranes: Relation between the transport of gases and structural characteristics. <i>Journal of Membrane Science</i> , <b>2006</b> , 278, 83-91	9.6	90
4 <sup>15</sup>	Interplay of metal node and amine functionality in NH <sub>2</sub> -MIL-53: modulating breathing behavior through intra-framework interactions. <i>Langmuir</i> , <b>2012</b> , 28, 12916-22	4	89
4 <sup>14</sup>	Solubility increases associated with crystalline drug nanoparticles: methodologies and significance. <i>Molecular Pharmaceutics</i> , <b>2010</b> , 7, 1858-70	5.6	89
4 <sup>13</sup>	Stability improvement of Cu <sub>3</sub> (BTC) <sub>2</sub> metal-organic frameworks under steaming conditions by encapsulation of a Keggin polyoxometalate. <i>Chemical Communications</i> , <b>2011</b> , 47, 8037-9	5.8	88
4 <sup>12</sup>	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> , <b>2010</b> , 4, 382-95	5.3	84
4 <sup>11</sup>	Local transformation of ZIF-8 powders and coatings into ZnO nanorods for photocatalytic application. <i>Nanoscale</i> , <b>2014</b> , 6, 2056-60	7.7	83
4 <sup>10</sup>	Dimethyl Branching of Long n-Alkanes in the Range from Decane to Tetracosane on Pt/HZSM-22 Bifunctional Catalyst. <i>Journal of Catalysis</i> , <b>2001</b> , 203, 213-231	7.3	83
4 <sup>09</sup>	Adsorption of multi-heavy metals onto water treatment residuals: Sorption capacities and applications. <i>Chemical Engineering Journal</i> , <b>2012</b> , 200-202, 405-415	14.7	81
4 <sup>08</sup>	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> , <b>2015</b> , 25, 516-525	15.6	78
4 <sup>07</sup>	Synthesis of zeolite ZSM-12 in the system (MTEA) <sub>2</sub> O-Na <sub>2</sub> O-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O. <i>Zeolites</i> , <b>1987</b> , 7, 458-462		78
4 <sup>06</sup>	Interfacial synthesis of ZIF-8 membranes with improved nanofiltration performance. <i>Journal of Membrane Science</i> , <b>2017</b> , 523, 561-566	9.6	77
4 <sup>05</sup>	Methods for in situ spectroscopic probing of the synthesis of a zeolite. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 4626-42	58.5	75
4 <sup>04</sup>	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> , <b>2008</b> , 357, 169-79	6.5	74
4 <sup>03</sup>	Heteropolyacid encapsulated in Cu <sub>3</sub> (BTC) <sub>2</sub> nanocrystals: An effective esterification catalyst. <i>Catalysis Today</i> , <b>2011</b> , 171, 275-280	5.3	73

402	Aging behavior of pharmaceutical formulations of itraconazole on SBA-15 ordered mesoporous silica carrier material. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 130, 154-161	5.3	73
401	NOx Abatement in Exhaust from Lean-Burn Combustion Engines by Reduction of NO2 over Silver-Containing Zeolite Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 1901-1903	16.4	73
400	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> , <b>2008</b> , 70, 590-6	5.7	73
399	Combined NMR, SAXS, and DLS Study of Concentrated Clear Solutions Used in Silicalite-1 Zeolite Synthesis. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3448-3454	9.6	73
398	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> , <b>2002</b> , 106, 4897-4900	3.4	73
397	Independent tuning of size and coverage of supported Pt nanoparticles using atomic layer deposition. <i>Nature Communications</i> , <b>2017</b> , 8, 1074	17.4	72
396	Multilayered supported ionic liquids as catalysts for chemical fixation of carbon dioxide: a high-throughput study in supercritical conditions. <i>ChemSusChem</i> , <b>2011</b> , 4, 1830-7	8.3	71
395	The cytotoxic activity of amorphous silica nanoparticles is mainly influenced by surface area and not by aggregation. <i>Toxicology Letters</i> , <b>2011</b> , 206, 197-203	4.4	70
394	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> , <b>1994</b> , 116, 2950-2957	16.4	70
393	The very large pore molecular sieve VPI-5. <i>Applied Catalysis</i> , <b>1989</b> , 56, L21-L27		70
392	Hierarchical Zeolitic Imidazolate Framework-8 Catalyst for Monoglyceride Synthesis. <i>ChemCatChem</i> , <b>2013</b> , 5, 3562-3566	5.2	69
391	Hollow filler based mixed matrix membranes. <i>Chemical Communications</i> , <b>2010</b> , 46, 2492-4	5.8	68
390	Elucidating the photocatalytic degradation pathway of acetaldehyde: An FTIR in situ study under atmospheric conditions. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 106, 630-638	21.8	67
389	Convenient synthesis of ordered mesoporous silica at room temperature and quasi-neutral pH. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8290		67
388	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> , <b>2003</b> , 107, 398-406	3.4	67
387	Hydrocracking of n-Alkane Mixtures on Pt/H <sub>2</sub> Zeolite: Chain Length Dependence of the Adsorption and the Kinetic Constants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 3242-3247	3.9	66
386	Chapter 12 Introduction to Acid Catalysis with Zeolites in Hydrocarbon Reactions. <i>Studies in Surface Science and Catalysis</i> , <b>1991</b> , 445-496	1.8	66
385	Hydroisomerization and hydrocracking of linear and multibranched long model alkanes on hierarchical Pt/ZSM-22 zeolite. <i>Catalysis Today</i> , <b>2013</b> , 218-219, 135-142	5.3	65

384	Strategies for Enhancing the Catalytic Performance of Metal-Organic Frameworks in the Fixation of CO into Cyclic Carbonates. <i>ChemSusChem</i> , <b>2017</b> , 10, 1283-1291	8.3	64
383	Hierarchization of USY Zeolite by NH <sub>4</sub> OH. A Postsynthetic Process Investigated by NMR and XRD. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 22573-22582	3.8	64
382	Predicting the Surface Plasmon Resonance Wavelength of Gold/Silver Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 19142-19145	3.8	64
381	Quantitative three-dimensional modeling of zeolite through discrete electron tomography. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 4769-73	16.4	64
380	Formation of ZSM-22 zeolite catalytic particles by fusion of elementary nanorods. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 10070-7	4.8	64
379	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. <i>ACS Omega</i> , <b>2016</b> , 1, 148-159	3.9	62
378	Amorphous microporous mixed oxides as selective redox catalysts. <i>Catalysis Letters</i> , <b>1996</b> , 38, 209-214	2.8	62
377	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> , <b>2008</b> , 35, 344-53	5.1	61
376	Catalyst Design by NH <sub>4</sub> OH Treatment of USY Zeolite. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 7130-7144	45.6	60
375	In Situ X-ray Fluorescence Measurements During Atomic Layer Deposition: Nucleation and Growth of TiO <sub>2</sub> on Planar Substrates and in Nanoporous Films. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6605-6610	3.8	60
374	Cage and Window Effects in the Adsorption of n-Alkanes on Chabazite and SAPO-34. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 16593-16599	3.8	60
373	Combined in situ <sup>29</sup> 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> , <b>2003</b> , 5, 3518	3.6	60
372	Synthesis and Characterisation of Silicon-Rich SAPO-5. <i>Studies in Surface Science and Catalysis</i> , <b>1988</b> , 37, 97-105	1.8	60
371	Alkaline cations directing the transformation of FAU zeolites into five different framework types. <i>Chemical Communications</i> , <b>2013</b> , 49, 11737-9	5.8	58
370	Alkylcarbenium Ion Concentrations in Zeolite Pores During Octane Hydrocracking on Pt/H-USY Zeolite. <i>Catalysis Letters</i> , <b>2004</b> , 94, 81-88	2.8	57
369	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> , <b>1999</b> , 181, 265-270	7.3	57
368	Gallium oxide nanorods: novel, template-free synthesis and high catalytic activity in epoxidation reactions. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1585-9	16.4	56
367	Oxidative stress induced by pure and iron-doped amorphous silica nanoparticles in subtoxic conditions. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 828-37	4	56

366	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> , <b>2011</b> , 100, 3411-3420	3.9	56
365	Selective and reversible ammonia gas detection with nanoporous film functionalized silicon photonic micro-ring resonator. <i>Optics Express</i> , <b>2012</b> , 20, 11855-62	3.3	56
364	A rational approach to the ionothermal synthesis of an AlPO <sub>4</sub> molecular sieve with an LTA-type framework. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4585-8	16.4	56
363	Synthesis of zeolitic-type adsorbent material from municipal solid waste incinerator bottom ash and its application in heavy metal adsorption. <i>Catalysis Today</i> , <b>2012</b> , 190, 23-30	5.3	55
362	Investigation of the mechanism of colloidal silicalite-1 crystallization by using DLS, SAXS, and <sup>29</sup> Si NMR spectroscopy. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 2764-74	4.8	55
361	1D-2D-3D Transformation Synthesis of Hierarchical Metal-Organic Framework Adsorbent for Multicomponent Alkane Separation. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 819-828	16.4	54
360	<sup>29</sup> 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> , <b>2011</b> , 115, 3562-3571	3.8	54
359	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900521	24	53
358	N Electroreduction to NH <sub>3</sub> by Selenium Vacancy-Rich ReSe Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13320-13327	16.4	53
357	PDMS mixed matrix membranes containing hollow silicalite sphere for ethanol / water separation by pervaporation. <i>Journal of Membrane Science</i> , <b>2016</b> , 502, 48-56	9.6	53
356	Kinetics of Hydrogen-Deuterium Exchange Reactions of Methane and Deuterated Acid FAU- and MFI-Type Zeolites. <i>Journal of Catalysis</i> , <b>1999</b> , 183, 355-367	7.3	53
355	Oriented FAU Zeolite Films on Micrometer-Sized EMT Crystals. <i>Advanced Materials</i> , <b>1999</b> , 11, 561-564	24	53
354	Zeolites and their Mechanism of Synthesis. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 84, 3-21	1.8	53
353	Formulate-ability of ten compounds with different physicochemical profiles in SMEDDS. <i>European Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 38, 479-88	5.1	51
352	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> , <b>2005</b> , 109, 22767-74	2.4	51
351	Plasma enhanced atomic layer deposition of Ga <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19232-19238	13	50
350	Computational modelling of a photocatalytic UV-LED reactor with internal mass and photon transfer consideration. <i>Chemical Engineering Journal</i> , <b>2015</b> , 264, 962-970	14.7	50
349	MFI Fingerprint: How Pentasil-Induced IR Bands Shift during Zeolite Nanogrowth. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 9186-9191	3.8	50



348	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> , <b>1999</b> , 21, 215-220	21.8	50
347	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> , <b>2016</b> , 108, 220-225	5.7	49
346	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> , <b>2011</b> , 28, 673-82	4.5	49
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