Johan A Martens

List of Publications by Year
in descending order

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477	24,401	6233 80	13338 130
papers	citations	h-index	g-index

514	514	514	23042
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The nanosilica hazard: another variable entity. Particle and Fibre Toxicology, 2010, 7, 39.	2.8	636
2	Sizeâ€Dependent Cytotoxicity of Monodisperse Silica Nanoparticles in Human Endothelial Cells. Small, 2009, 5, 846-853.	5.2	513
3	Selective Adsorption and Separation of Xylene Isomers and Ethylbenzene with the Microporous Vanadium(IV) Terephthalate MIL-47. Angewandte Chemie - International Edition, 2007, 46, 4293-4297.	7.2	496
4	Nanoscale intimacy in bifunctional catalysts for selective conversion of hydrocarbons. Nature, 2015, 528, 245-248.	13.7	450
5	Selective Adsorption and Separation of ortho-Substituted Alkylaromatics with the Microporous Aluminum Terephthalate MIL-53. Journal of the American Chemical Society, 2008, 130, 14170-14178.	6.6	376
6	Tailoring nanoporous materials by atomic layer deposition. Chemical Society Reviews, 2011, 40, 5242.	18.7	338
7	Isomerization and hydrocracking of C9 through C16 n-alkanes on Pt/HZSM-5 zeolite. Applied Catalysis, 1983, 8, 123-141.	1.1	318
8	Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOHâˆ’TEOSâˆ’H2O System. Journal of Physical Chemistry B, 1999, 103, 4965-4971.	1.2	299
9	Oxidative stress and proinflammatory effects of carbon black and titanium dioxide nanoparticles: Role of particle surface area and internalized amount. Toxicology, 2009, 260, 142-149.	2.0	294
10	Understanding the Role of Sodium during Adsorption:Â A Force Field for Alkanes in Sodium-Exchanged Faujasites. Journal of the American Chemical Society, 2004, 126, 11377-11386.	6.6	255
11	Ordered Mesoporous Silica Material SBA-15: A Broad-Spectrum Formulation Platform for Poorly Soluble Drugs. Journal of Pharmaceutical Sciences, 2009, 98, 2648-2658.	1.6	237
12	Crystallization mechanism of zeolite beta from (TEA)2O, Na2O and K2O containing aluminosilicate gels.. Applied Catalysis, 1987, 31, 35-64.	1.1	229
13	Estimation of the void structure and pore dimensions of molecular sieve zeolites using the hydroconversion of n-decane. Zeolites, 1984, 4, 98-107.	0.9	227
14	Direct Patterning of Oriented Metalâ€“Organic Framework Crystals via Control over Crystallization Kinetics in Clear Precursor Solutions. Advanced Materials, 2010, 22, 2685-2688.	11.1	224
15	Increasing the oral bioavailability of the poorly water soluble drug itraconazole with ordered mesoporous silica. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 223-230.	2.0	221
16	High-Temperature Low-Pressure Adsorption of Branched C5âˆ’C8 Alkanes on Zeolite Beta, ZSM-5, ZSM-22, Zeolite Y, and Mordenite. Journal of Physical Chemistry B, 1998, 102, 4588-4597.	1.2	212
17	Characterization of Nanosized Material Extracted from Clear Suspensions for MFI Zeolite Synthesis. Journal of Physical Chemistry B, 1999, 103, 4960-4964.	1.2	212
18	Physical State of Poorly Water Soluble Therapeutic Molecules Loaded into SBA-15 Ordered Mesoporous Silica Carriers: A Case Study with Itraconazole and Ibuprofen. Langmuir, 2008, 24, 8651-8659.	1.6	212

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19	Enhanced release of itraconazole from ordered mesoporous SBA-15 silica materials. Chemical Communications, 2007, , 1375.	2.2	202
20	Carbon black and titanium dioxide nanoparticles elicit distinct apoptotic pathways in bronchial epithelial cells. Particle and Fibre Toxicology, 2010, 7, 10.	2.8	198
21	Selective Isomerization of Hydrocarbon Chains on External Surfaces of Zeolite Crystals. Angewandte Chemie International Edition in English, 1995, 34, 2528-2530.	4.4	197
22	A screening study of surface stabilization during the production of drug nanocrystals. Journal of Pharmaceutical Sciences, 2009, 98, 2091-2103.	1.6	191
23	Polymer supported ZIF-8 membranes prepared via an interfacial synthesis method. Chemical Communications, 2015, 51, 918-920.	2.2	187
24	Nominal and Effective Dosimetry of Silica Nanoparticles in Cytotoxicity Assays. Toxicological Sciences, 2008, 104, 155-162.	1.4	183
25	Monolithic cells for solar fuels. Chemical Society Reviews, 2014, 43, 7963-7981.	18.7	181
26	Drying of crystalline drug nanosuspensionsâ€"The importance of surface hydrophobicity on dissolution behavior upon redispersion. European Journal of Pharmaceutical Sciences, 2008, 35, 127-135.	1.9	179
27	Superâ€Resolution Reactivity Mapping of Nanostructured Catalyst Particles. Angewandte Chemie - International Edition, 2009, 48, 9285-9289.	7.2	175
28	The Chemical Route to a Carbon Dioxide Neutral World. ChemSusChem, 2017, 10, 1039-1055.	3.6	174
29	Monomethyl-Branching of Long n-Alkanes in the Range from Decane to Tetracosane on Pt/H-ZSM-22 Bifunctional Catalyst. Journal of Catalysis, 2000, 190, 39-48.	3.1	172
30	Zeosil Nanoslabs: Building Blocks innPr4N+-Mediated Synthesis of MFI Zeolite. Angewandte Chemie - International Edition, 2001, 40, 2637-2640.	7.2	172
31	Chromatographic Study of Adsorption ofn-Alkanes on Zeolites at High Temperatures. Journal of Physical Chemistry B, 1998, 102, 3077-3081.	1.2	170
32	ZIF-71 as a potential filler to prepare pervaporation membranes for bio-alcohol recovery. Journal of Materials Chemistry A, 2014, 2, 10034-10040.	5.2	170
33	Physicochemical Characterization of Silicalite-1 Nanophase Material. Journal of Physical Chemistry B, 1998, 102, 2633-2639.	1.2	166
34	Shape-selectivity changes in high-silica zeolites. Faraday Discussions of the Chemical Society, 1981, 72, 353.	2.2	165
35	Design of zeolite by inverse sigma transformation. Nature Materials, 2012, 11, 1059-1064.	13.3	161
36	Synthesis and shape-selective properties of ZSM-22. Applied Catalysis, 1989, 48, 137-148.	1.1	159

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37	Convenient synthesis of Cu3(BTC)2 encapsulated Keggin heteropolyacid nanomaterial for application in catalysis. Chemical Communications, 2010, 46, 8186.	2.2	158
38	Fine tuning of the metalâ€“organic framework Cu3(BTC)2 HKUST-1 crystal size in the 100 nm to 5 micron range. Journal of Materials Chemistry, 2012, 22, 13742.	6.7	158
39	Conversion of sugars to ethylene glycol with nickel tungsten carbide in a fed-batch reactor: high productivity and reaction network elucidation. Green Chemistry, 2014, 16, 695-707.	4.6	147
40	Ternary Ag/MgOâ€SiO₂ Catalysts for the Conversion of Ethanol into Butadiene. ChemSusChem, 2015, 8, 994-1008.	3.6	147
41	NH₂-MIL-53(Al): A High-Contrast Reversible Solid-State Nonlinear Optical Switch. Journal of the American Chemical Society, 2012, 134, 8314-8317.	6.6	144
42	Synthesis and Characterization of Stable Monodisperse Silica Nanoparticle Sols for in Vitro Cytotoxicity Testing. Langmuir, 2010, 26, 328-335.	1.6	137
43	Highly selective gas separation membrane using in situ amorphised metalâ€“organic frameworks. Energy and Environmental Science, 2017, 10, 2342-2351.	15.6	137
44	Molecular shape-selectivity of MFI zeolite nanosheets in n-decane isomerization and hydrocracking. Journal of Catalysis, 2013, 300, 70-80.	3.1	132
45	N₂ Electroreduction to NH₃ by Selenium Vacancyâ€Rich ReSe₂ Catalysis at an Abrupt Interface. Angewandte Chemie - International Edition, 2020, 59, 13320-13327.	7.2	127
46	The potential and limitations of the n-decane hydroconversion as a test reaction for characterization of the void space of molecular sieve zeolites. Zeolites, 1986, 6, 334-348.	0.9	126
47	Influence of size, surface area and microporosity on thein vitrocytotoxic activity of amorphous silica nanoparticles in different cell types. Nanotoxicology, 2010, 4, 307-318.	1.6	122
48	Plasmonic goldâ€“silver alloy on TiO2 photocatalysts with tunable visible light activity. Applied Catalysis B: Environmental, 2014, 156-157, 116-121.	10.8	122
49	Single molecule methods for the study of catalysis: from enzymes to heterogeneous catalysts. Chemical Society Reviews, 2014, 43, 990-1006.	18.7	115
50	Copper Benzene Tricarboxylate Metalâ€“Organic Framework with Wide Permanent Mesopores Stabilized by Keggin Polyoxometallate Ions. Journal of the American Chemical Society, 2012, 134, 10911-10919.	6.6	112
51	Combined use of ordered mesoporous silica and precipitation inhibitors for improved oral absorption of the poorly soluble weak base itraconazole. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 75, 354-365.	2.0	111
52	Hydroisomerization of Emerging Renewable Hydrocarbons using Hierarchical Pt/Hâ€ZSMâ€22 Catalyst. ChemSusChem, 2013, 6, 421-425.	3.6	111
53	Cr-MIL-101 encapsulated Keggin phosphotungstic acid as active nanomaterial for catalysing the alcoholysis of styrene oxide. Green Chemistry, 2014, 16, 1351-1357.	4.6	110
54	Incorporation of nano-sized zeolites in membranes. Chemical Communications, 2000, , 2467-2468.	2.2	107

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55	Interfacial synthesis of ZIF-8 membranes with improved nanofiltration performance. Journal of Membrane Science, 2017, 523, 561-566.	4.1	107
56	Direct Observation of Molecularâ€Level Template Action Leading to Selfâ€Assembly of a Porous Framework. Chemistry - A European Journal, 2010, 16, 3926-3932.	1.7	106
57	Factors affecting the synthesis efficiency of zeolite BETA from aluminosilicate gels containing alkali and tetraethylammonium ions. Zeolites, 1988, 8, 46-53.	0.9	105
58	Transition Metal Ions in Microporous Crystalline Aluminophosphates: Isomorphous Substitution. European Journal of Inorganic Chemistry, 1999, 1999, 565-577.	1.0	105
59	Local transformation of ZIF-8 powders and coatings into ZnO nanorods for photocatalytic application. Nanoscale, 2014, 6, 2056.	2.8	105
60	Design and Synthesis of Hierarchical Materials from Ordered Zeolitic Building Units. Chemistry - A European Journal, 2005, 11, 4306-4313.	1.7	101
61	Solubility Increases Associated with Crystalline Drug Nanoparticles: Methodologies and Significance. Molecular Pharmaceutics, 2010, 7, 1858-1870.	2.3	100
62	Stability improvement of Cu3(BTC)2 metalâ€“organic frameworks under steaming conditions by encapsulation of a Keggin polyoxometalate. Chemical Communications, 2011, 47, 8037.	2.2	98
63	Interplay of Metal Node and Amine Functionality in NH₂-MIL-53: Modulating Breathing Behavior through Intra-framework Interactions. Langmuir, 2012, 28, 12916-12922.	1.6	98
64	Adsorption of multi-heavy metals onto water treatment residuals: Sorption capacities and applications. Chemical Engineering Journal, 2012, 200-202, 405-415.	6.6	97
65	Silica filled poly(1-trimethylsilyl-1-propyne) nanocomposite membranes: Relation between the transport of gases and structural characteristics. Journal of Membrane Science, 2006, 278, 83-91.	4.1	95
66	Independent tuning of size and coverage of supported Pt nanoparticles using atomic layer deposition. Nature Communications, 2017, 8, 1074.	5.8	95
67	Methods for in situ spectroscopic probing of the synthesis of a zeolite. Chemical Society Reviews, 2010, 39, 4626.	18.7	94
68	Elucidating the photocatalytic degradation pathway of acetaldehyde: An FTIR in situ study under atmospheric conditions. Applied Catalysis B: Environmental, 2011, 106, 630-638.	10.8	94
69	Submicrometerâ€Sized ZIFâ€71 Filled Organophilic Membranes for Improved Bioethanol Recovery: Mechanistic Insights by Monte Carlo Simulation and FTIR Spectroscopy. Advanced Functional Materials, 2015, 25, 516-525.	7.8	94
70	Dimethyl Branching of Long n-Alkanes in the Range from Decane to Tetracosane on Pt/Hâ€“ZSM-22 Bifunctional Catalyst. Journal of Catalysis, 2001, 203, 213-231.	3.1	93
71	Predicting the Surface Plasmon Resonance Wavelength of Goldâ€“Silver Alloy Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 19142-19145.	1.5	93
72	Exploring the aneugenic and clastogenic potential in the nanosize range: A549 human lung carcinoma cells and amorphous monodisperse silica nanoparticles as models. Nanotoxicology, 2010, 4, 382-395.	1.6	91

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73	Hydrogen Clathrates: Next Generation Hydrogen Storage Materials. Energy Storage Materials, 2021, 41, 69-107.	9.5	89
74	Tracking Structural Phase Transitions in Leadâ€Halide Perovskites by Means of Thermal Expansion. Advanced Materials, 2019, 31, e1900521.	11.1	88
75	Aging behavior of pharmaceutical formulations of itraconazole on SBA-15 ordered mesoporous silica carrier material. Microporous and Mesoporous Materials, 2010, 130, 154-161.	2.2	85
76	Alumina: discriminative analysis using 3D correlation of solid-state NMR parameters. Chemical Society Reviews, 2019, 48, 134-156.	18.7	85
77	Synthesis of zeolite ZSM-12 in the system (MTEA)2O-Na2O-SiO2-Al2O3-H2O. Zeolites, 1987, 7, 458-462.	0.9	84
78	Alkaline cations directing the transformation of FAU zeolites into five different framework types. Chemical Communications, 2013, 49, 11737.	2.2	84
79	Chapter 12 Introduction to Acid Catalysis with Zeolites in Hydrocarbon Reactions. Studies in Surface Science and Catalysis, 1991, , 445-496.	1.5	83
80	NOx Abatement in Exhaust from Lean-Burn Combustion Engines by Reduction of NO2 over Silver-Containing Zeolite Catalysts. Angewandte Chemie - International Edition, 1998, 37, 1901-1903.	7.2	83
81	Combined NMR, SAXS, and DLS Study of Concentrated Clear Solutions Used in Silicalite-1 Zeolite Synthesis. Chemistry of Materials, 2007, 19, 3448-3454.	3.2	82
82	Role of 18-Crown-6 and 15-Crown-5 Ethers in the Crystallization of Polytype Faujasite Zeolites. Journal of the American Chemical Society, 1994, 116, 2950-2957.	6.6	81
83	Hydroisomerization and hydrocracking of linear and multibranched long model alkanes on hierarchical Pt/ZSM-22 zeolite. Catalysis Today, 2013, 218-219, 135-142.	2.2	81
84	Hierarchical Zeolitic Imidazolate Frameworkâ€8 Catalyst for Monoglyceride Synthesis. ChemCatChem, 2013, 5, 3562-3566.	1.8	81
85	Hierarchization of USY Zeolite by NH₄OH. A Postsynthetic Process Investigated by NMR and XRD. Journal of Physical Chemistry C, 2014, 118, 22573-22582.	1.5	81
86	Ordered mesoporous silica to enhance the bioavailability of poorly water-soluble drugs: Proof of concept in man. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 108, 220-225.	2.0	81
87	Convenient synthesis of ordered mesoporous silica at room temperature and quasi-neutral pH. Journal of Materials Chemistry, 2009, 19, 8290.	6.7	80
88	Ordered mesoporous silica induces pH-independent supersaturation of the basic low solubility compound itraconazole resulting in enhanced transepithelial transport. International Journal of Pharmaceutics, 2008, 357, 169-179.	2.6	79
89	The very large pore molecular sieve VPI-5:. Applied Catalysis, 1989, 56, L21-L27.	1.1	78
90	Microcrystalline cellulose, a useful alternative for sucrose as a matrix former during freeze-drying of drug nanosuspensions â€“ A case study with itraconazole. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 70, 590-596.	2.0	78

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91	New Evidence for Precursor Species in the Formation of MFI Zeolite in the Tetrapropylammonium Hydroxideâ˜Tetraethyl Orthosilicateâ˜Water System. Journal of Physical Chemistry B, 2002, 106, 4897-4900.	1.2	77
92	Formation of ZSMâ€22 Zeolite Catalytic Particles by Fusion of Elementary Nanorods. Chemistry - A European Journal, 2007, 13, 10070-10077.	1.7	77
93	Hollow filler based mixed matrix membranes. Chemical Communications, 2010, 46, 2492.	2.2	77
94	The cytotoxic activity of amorphous silica nanoparticles is mainly influenced by surface area and not by aggregation. Toxicology Letters, 2011, 206, 197-203.	0.4	77
95	Multilayered Supported Ionic Liquids as Catalysts for Chemical Fixation of Carbon Dioxide: A Highâ€Throughput Study in Supercritical Conditions. ChemSusChem, 2011, 4, 1830-1837.	3.6	77
96	Plasma enhanced atomic layer deposition of Ga₂O₃thin films. Journal of Materials Chemistry A, 2014, 2, 19232-19238.	5.2	77
97	Tracer Chromatographic Study of Pore and Pore Mouth Adsorption of Linear and Monobranched Alkanes on ZSM-22 Zeolite. Journal of Physical Chemistry B, 2003, 107, 398-406.	1.2	76
98	Heteropolyacid encapsulated in Cu3(BTC)2 nanocrystals: An effective esterification catalyst. Catalysis Today, 2011, 171, 275-280.	2.2	76
99	Catalyst Design by NH₄OH Treatment of USY Zeolite. Advanced Functional Materials, 2015, 25, 7130-7144.	7.8	76
100	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. ACS Omega, 2016, 1, 148-159.	1.6	76
101	Hydrocracking of n-Alkane Mixtures on Pt/Hâ˜Y Zeolite:â€‰ Chain Length Dependence of the Adsorption and the Kinetic Constants. Industrial & Engineering Chemistry Research, 1997, 36, 3242-3247.	1.8	74
102	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. Journal of Catalysis, 1999, 181, 265-270.	3.1	74
103	Amorphous microporous mixed oxides as selective redox catalysts. Catalysis Letters, 1996, 38, 209-214.	1.4	73
104	²⁹Si NMR and UVâ˜Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Solâ˜Gel Chemistry. Journal of Physical Chemistry C, 2011, 115, 3562-3571.	1.5	72
105	Strategies for Enhancing the Catalytic Performance of Metalâ€“Organic Frameworks in the Fixation of CO₂ into Cyclic Carbonates. ChemSusChem, 2017, 10, 1283-1291.	3.6	72
106	Synthesis and Characterisation of Silicon-Rich Sapo-5. Studies in Surface Science and Catalysis, 1988, 37, 97-105.	1.5	71
107	Zeolites and their Mechanism of Synthesis. Studies in Surface Science and Catalysis, 1994, 84, 3-21.	1.5	71
108	Selective and reversible ammonia gas detection with nanoporous film functionalized silicon photonic micro-ring resonator. Optics Express, 2012, 20, 11855.	1.7	69

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109	Combined in situ 29Si NMR and small-angle X-ray scattering study of precursors in MFI zeolite formation from silicic acid in TPAOH solutions. Physical Chemistry Chemical Physics, 2003, 5, 3518.	1.3	66
110	Cage and Window Effects in the Adsorption of n-Alkanes on Chabazite and SAPO-34. Journal of Physical Chemistry C, 2008, 112, 16593-16599.	1.5	66
111	Quantitative Three-Dimensional Modeling of Zeotile Through Discrete Electron Tomography. Journal of the American Chemical Society, 2009, 131, 4769-4773.	6.6	66
112	In Situ X-ray Fluorescence Measurements During Atomic Layer Deposition: Nucleation and Growth of TiO₂ on Planar Substrates and in Nanoporous Films. Journal of Physical Chemistry C, 2011, 115, 6605-6610.	1.5	66
113	Adsorption and Separation of CO₂ on KFI Zeolites: Effect of Cation Type and Si/Al Ratio on Equilibrium and Kinetic Properties. Langmuir, 2013, 29, 4998-5012.	1.6	66
114	Synthesis of zeolitic-type adsorbent material from municipal solid waste incinerator bottom ash and its application in heavy metal adsorption. Catalysis Today, 2012, 190, 23-30.	2.2	65
115	PDMS mixed matrix membranes containing hollow silicalite sphere for ethanol / water separation by pervaporation. Journal of Membrane Science, 2016, 502, 48-56.	4.1	65
116	Kinetics of Hydrogenâ€“Deuterium Exchange Reactions of Methane and Deuterated Acid FAU- and MFI-Type Zeolites. Journal of Catalysis, 1999, 183, 355-367.	3.1	64
117	Evaluation of ordered mesoporous silica as a carrier for poorly soluble drugs: Influence of pressure on the structure and drug release. Journal of Pharmaceutical Sciences, 2011, 100, 3411-3420.	1.6	64
118	Oxidative Stress Induced by Pure and Iron-Doped Amorphous Silica Nanoparticles in Subtoxic Conditions. Chemical Research in Toxicology, 2012, 25, 828-837.	1.7	64
119	Alternative matrix formers for nanosuspension solidification: Dissolution performance and X-ray microanalysis as an evaluation tool for powder dispersion. European Journal of Pharmaceutical Sciences, 2008, 35, 344-353.	1.9	63
120	Gallium Oxide Nanorods: Novel, Templateâ€Free Synthesis and High Catalytic Activity in Epoxidation Reactions. Angewandte Chemie - International Edition, 2014, 53, 1585-1589.	7.2	63
121	1D-2D-3D Transformation Synthesis of Hierarchical Metalâ€“Organic Framework Adsorbent for Multicomponent Alkane Separation. Journal of the American Chemical Society, 2017, 139, 819-828.	6.6	62
122	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. Applied Catalysis B: Environmental, 1999, 21, 215-220.	10.8	61
123	Alkylcarbenium Ion Concentrations in Zeolite Pores During Octane Hydrocracking on Pt/H-USY Zeolite. Catalysis Letters, 2004, 94, 81-88.	1.4	61
124	A Rational Approach to the Ionothermal Synthesis of an AlPO₄ Molecular Sieve with an LTAâ€Type Framework. Angewandte Chemie - International Edition, 2010, 49, 4585-4588.	7.2	61
125	Investigation of the Mechanism of Colloidal Silicaliteâ€1 Crystallization by Using DLS, SAXS, and ²⁹Si NMR Spectroscopy. Chemistry - A European Journal, 2010, 16, 2764-2774.	1.7	60
126	PDMS membranes containing ZIF-coated mesoporous silica spheres for efficient ethanol recovery via pervaporation. Journal of Materials Chemistry A, 2016, 4, 12790-12798.	5.2	60

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127	MFI Fingerprint: How Pentasil-Induced IR Bands Shift during Zeolite Nanogrowth. Journal of Physical Chemistry C, 2008, 112, 9186-9191.	1.5	59
128	Computational modelling of a photocatalytic UV-LED reactor with internal mass and photon transfer consideration. Chemical Engineering Journal, 2015, 264, 962-970.	6.6	59
129	Formulate-ability of ten compounds with different physicochemical profiles in SMEDDS. European Journal of Pharmaceutical Sciences, 2009, 38, 479-488.	1.9	58
130	Towards Green Ammonia Synthesis through Plasmaâ€Driven Nitrogen Oxidation and Catalytic Reduction. Angewandte Chemie - International Edition, 2020, 59, 23825-23829.	7.2	58
131	Oligomerization of Hex-1-ene over Acidic Aluminosilicate Zeolites, MCM-41, and Silica-Alumina Co-gel Catalysts: A Comparative Study. Journal of Catalysis, 1999, 184, 262-267.	3.1	57
132	Reaction Mechanisms of Lean-Burn Hydrocarbon SCR over Zeolite Catalysts. Topics in Catalysis, 2004, 28, 119-130.	1.3	56
133	Comparison Between Hot-Melt Extrusion and Spray-Drying for Manufacturing Solid Dispersions of the Graft Copolymer of Ethylene Glycol and Vinylalcohol. Pharmaceutical Research, 2011, 28, 673-682.	1.7	56
134	Oriented FAU Zeolite Films on Micrometer-Sized EMT Crystals. Advanced Materials, 1999, 11, 561-564.	11.1	55
135	Evidence for Alkylcarbenium Ion Reaction Intermediates from Intrinsic Reaction Kinetics of C6â€“C9n-Alkane Hydroisomerization and Hydrocracking on Pt/Hâ€“Y and Pt/USY Zeolites. Journal of Catalysis, 2000, 190, 469-473.	3.1	55
136	The benefit of glass bead supports for efficient gas phase photocatalysis: Case study of a commercial and a synthesised photocatalyst. Chemical Engineering Journal, 2011, 174, 318-325.	6.6	55
137	Pt/H-ZSM-22 hydroisomerization catalysts optimization guided by Single-Event MicroKinetic modeling. Journal of Catalysis, 2012, 290, 165-176.	3.1	55
138	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. Catalysis Today, 1987, 1, 435-453.	2.2	54
139	Continuous Synthesis Process of Hexagonal Nanoplates of P6m Ordered Mesoporous Silica. Journal of the American Chemical Society, 2011, 133, 13737-13745.	6.6	54
140	Rotational Entropy Driven Separation of Alkane/Isoalkane Mixtures in Zeolite Cages. Angewandte Chemie - International Edition, 2005, 44, 400-403.	7.2	53
141	Template-Aluminosilicate Structures at the Early Stages of Zeolite ZSM-5 Formation. A Combined Preparative, Solid-state NMR, and Computational Study. Journal of Physical Chemistry B, 2005, 109, 22767-22774.	1.2	53
142	Simple synthesis recipes of porous materials. Microporous and Mesoporous Materials, 2011, 140, 2-8.	2.2	53
143	Downscaling Drug Nanosuspension Production: Processing Aspects and Physicochemical Characterization. AAPS PharmSciTech, 2009, 10, 44-53.	1.5	52
144	The conflict between in vitro release studies in human biorelevant media and the in vivo exposure in rats of the lipophilic compound fenofibrate. International Journal of Pharmaceutics, 2011, 414, 118-124.	2.6	52

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145	Packing Effects in the Liquid-Phase Adsorption of C5-C22n-Alkanes on ZSM-5. Journal of Physical Chemistry B, 2003, 107, 10760-10766.	1.2	51
146	Connectivity Analysis of the Clear Sol Precursor of Silicalite: Are Nanoparticles Aggregated Oligomers or Silica Particles?. Journal of Physical Chemistry C, 2009, 113, 20827-20836.	1.5	51
147	In Situ Monitoring of Atomic Layer Deposition in Nanoporous Thin Films Using Ellipsometric Porosimetry. Langmuir, 2012, 28, 3852-3859.	1.6	51
148	Cytokine production by co-cultures exposed to monodisperse amorphous silica nanoparticles: The role of size and surface area. Toxicology Letters, 2012, 211, 98-104.	0.4	51
149	Factors driving the activity of commercial titanium dioxide powders towards gas phase photocatalytic oxidation of acetaldehyde. Catalysis Science and Technology, 2012, 2, 2311.	2.1	51
150	Water as a tuneable solvent: a perspective. Chemical Society Reviews, 2020, 49, 2557-2569.	18.7	51
151	Itraconazole/TPGS/AerosilÂ®200 solid dispersions. European Journal of Pharmaceutical Sciences, 2009, 38, 270-278.	1.9	50
152	Synthesis of Monoglycerides by Esterification of Oleic Acid with Glycerol in Heterogeneous Catalytic Process Using Tinâ€“Organic Framework Catalyst. Catalysis Letters, 2013, 143, 356-363.	1.4	50
153	IZM-2: A promising new zeolite for the selective hydroisomerization of long-chain n-alkanes. Journal of Catalysis, 2013, 301, 20-29.	3.1	49
154	Plasmonic â€˜rainbowâ€™ photocatalyst with broadband solar light response for environmental applications. Applied Catalysis B: Environmental, 2016, 188, 147-153.	10.8	49
155	Model System to Study the Influence of Aggregation on the Hemolytic Potential of Silica Nanoparticles. Chemical Research in Toxicology, 2011, 24, 1869-1875.	1.7	48
156	Atomic layer deposition-based synthesis of photoactive TiO2 nanoparticle chains by using carbon nanotubes as sacrificial templates. RSC Advances, 2014, 4, 11648.	1.7	48
157	Molecular shape selectivity of EUO zeolites. Microporous Materials, 1995, 4, 123-130.	1.6	47
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