Wolfgang Schmidt

List of Publications by Year
in descending order

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132 papers	7,845 citations	43973 48 h-index	51492 86 g-index
149 all docs	149 docs citations	149 times ranked	9378 citing authors

#	Article	IF	Citations
1	Nanoengineering of a Magnetically Separable Hydrogenation Catalyst. Angewandte Chemie - International Edition, 2004, 43, 4303-4306.	7.2	492
2	Controllable Synthesis of Mesoporous Peapodâ€like Co₃O₄@Carbon Nanotube Arrays for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 7060-7064.	7.2	355
3	Weakly Ferromagnetic Ordered Mesoporous Co3O4Synthesized by Nanocasting from Vinyl-Functionalized Cubicla3dMesoporous Silica. Advanced Materials, 2005, 17, 53-56.	11.1	291
4	Calcination behavior of different surfactant-templated mesostructured silica materials. Microporous and Mesoporous Materials, 2003, 65, 1-29.	2.2	272
5	Synthesis of Polyacrylonitrile-Based Ordered Mesoporous Carbon with Tunable Pore Structures. Chemistry of Materials, 2004, 16, 100-103.	3.2	265
6	Morphology-dependent zeolite intergrowth structures leading to distinct internal and outer-surface molecular diffusion barriers. Nature Materials, 2009, 8, 959-965.	13.3	251
7	Highly Ordered Mesoporous Cobalt-Containing Oxides: Structure, Catalytic Properties, and Active Sites in Oxidation of Carbon Monoxide. Journal of the American Chemical Society, 2015, 137, 11407-11418.	6.6	225
8	Synthesis of Ordered Mesoporous Carbon with Bimodal Pore System and High Pore Volume. Advanced Materials, 2003, 15, 1602-1606.	11.1	195
9	Co₃O₄â€“SiO₂ Nanocomposite: A Very Active Catalyst for CO Oxidation with Unusual Catalytic Behavior. Journal of the American Chemical Society, 2011, 133, 11279-11288.	6.6	189
10	Taking Nanocasting One Step Further: Replicating CMK-3 as a Silica Material. Angewandte Chemie - International Edition, 2002, 41, 3489-3492.	7.2	187
11	Small-sized HZSM-5 zeolite as highly active catalyst for gas phase dehydration of glycerol to acrolein. Journal of Catalysis, 2010, 269, 71-79.	3.1	183
12	Stepwise Removal of the Copolymer Template from Mesopores and Micropores in SBA-15. Chemistry of Materials, 2004, 16, 2918-2925.	3.2	171
13	Hierarchically Structured Monolithic Silicalite-1 Consisting of Crystallized Nanoparticles and Its Performance in the Beckmann Rearrangement of Cyclohexanone Oxime. Journal of the American Chemical Society, 2005, 127, 12595-12600.	6.6	168
14	Synthesis and microwave absorbing properties of highly ordered mesoporous crystalline NiFe2O4. Chemical Communications, 2011, 47, 5337.	2.2	164
15	Easy synthesis of an ordered mesoporous carbon with a hexagonally packed tubular structure. Carbon, 2004, 42, 2939-2948.	5.4	154
16	Nitrogenâ€Doped Ordered Mesoporous Carbon Supported Bimetallic PtCo Nanoparticles for Upgrading of Biophenolics. Angewandte Chemie - International Edition, 2016, 55, 8850-8855.	7.2	152
17	High-Surface-Area Oxides Obtained by an Activated Carbon Route. Chemistry of Materials, 2002, 14, 3913-3919.	3.2	151
18	Fabrication of Magnetically Separable Mesostructured Silica with an Open Pore System. Journal of the American Chemical Society, 2004, 126, 8616-8617.	6.6	148

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19	Consecutive Generation of Mesopores and Micropores in SBA-15. Chemistry of Materials, 2003, 15, 3739-3741.	3.2	136
20	Mechanochemical preparation and investigation of properties of magnesium, calcium and lithiumâ€“magnesium alanates. Journal of Alloys and Compounds, 2006, 407, 78-86.	2.8	135
21	Silver-Catalyzed Oxidation of Ethylene to Ethylene Oxide in a Microreaction System. Industrial & Engineering Chemistry Research, 2002, 41, 710-719.	1.8	124
22	X-ray photoelectron spectroscopic studies of PAN-based ordered mesoporous carbons (OMC). Microporous and Mesoporous Materials, 2006, 88, 238-243.	2.2	124
23	Evolution of mesoporous materials during the calcination process: structural and chemical behavior. Microporous and Mesoporous Materials, 2001, 44-45, 95-109.	2.2	100
24	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2016, 55, 11101-11105.	7.2	99
25	From glycerol to allyl alcohol: iron oxide catalyzed dehydration and consecutive hydrogen transfer. Chemical Communications, 2010, 46, 1238.	2.2	97
26	Modular Pd/Zeolite Composites Demonstrating the Key Role of Support Hydrophobic/Hydrophilic Character in Methane Catalytic Combustion. ACS Catalysis, 2019, 9, 4742-4753.	5.5	97
27	Gold on Different Manganese Oxides: Ultra-Low-Temperature CO Oxidation over Colloidal Gold Supported on Bulk-MnO₂ Nanomaterials. Journal of the American Chemical Society, 2016, 138, 9572-9580.	6.6	88
28	Template synthesis of large pore ordered mesoporous carbon. Microporous and Mesoporous Materials, 2005, 80, 117-128.	2.2	76
29	PFG NMR and QENS diffusion study of n-alkane homologues in MFI-type zeolites. Microporous and Mesoporous Materials, 2006, 90, 299-306.	2.2	75
30	Hydrogen-Isotope Scrambling on Doped Sodium Alanate. Angewandte Chemie - International Edition, 2006, 45, 3663-3665.	7.2	68
31	Ordered mesoporous Cuâ€“Ceâ€“O catalysts for CO preferential oxidation in H2-rich gases: Influence of copper content and pretreatment conditions. Applied Catalysis B: Environmental, 2014, 152-153, 11-18.	10.8	68
32	High Surface Area, Mesoporous, Glassy Alumina with a Controllable Pore Size by Nanocasting from Carbon Aerogels. Chemistry - A European Journal, 2005, 11, 1658-1664.	1.7	67
33	Supported palladium nanoparticles on hybrid mesoporous silica: Structure/activity-relationship in the aerobic alcohol oxidation using supercritical carbon dioxide. Journal of Catalysis, 2008, 258, 315-323.	3.1	67
34	Impacts of Geometry, Symmetry, and Morphology of Nanocast Co₃O₄on Its Catalytic Activity for Water Oxidation. Chemistry of Materials, 2014, 26, 6127-6134.	3.2	67
35	Synthesis and Characterization of Mesoporous MCM-48 Containing TiO2 Nanoparticles. Chemistry of Materials, 2005, 17, 3820-3829.	3.2	63
36	Solid Catalysts on the Nanoscale: Design of Complex Morphologies and Pore Structures. ChemCatChem, 2009, 1, 53-67.	1.8	61

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37	Exploring Crystal Morphology of Nanoporous Hosts from Timeâ€Dependent Guest Profiles. Angewandte Chemie - International Edition, 2008, 47, 3954-3957.	7.2	59
38	Fabrication of hierarchically structured carbon monoliths via self-binding and salt templating. Microporous and Mesoporous Materials, 2006, 95, 187-192.	2.2	58
39	Scalable synthesis of activated carbon with superparamagnetic properties. Chemical Communications, 2006, , 3987-3989.	2.2	57
40	Thermal Stability and Thermal Transformations of Co2+- or Ni2+-Exchanged Zeolites A, X, and Y. Chemistry of Materials, 2000, 12, 3811-3820.	3.2	55
41	Synthesis and Characterization of Ag2NiO2 Showing an Uncommon Charge Distribution. Angewandte Chemie - International Edition, 2002, 41, 643-646.	7.2	54
42	Effect of Surface Modification on Uptake Rates of Isobutane in MFI Crystals: An Infrared Microscopy Study. Chemistry of Materials, 2007, 19, 6012-6019.	3.2	54
43	Calculation of XRD patterns of simulated FDU-15, CMK-5, and CMK-3 carbon structures. Microporous and Mesoporous Materials, 2009, 117, 372-379.	2.2	53
44	One-pot synthesis of mesoporous Cuâ€“Î³-Al2O3 as bifunctional catalyst for direct dimethyl ether synthesis. Microporous and Mesoporous Materials, 2012, 164, 3-8.	2.2	52
45	High surface area mesoporous SiC synthesized via nanocasting and carbothermal reduction process. Journal of Materials Science, 2005, 40, 5091-5093.	1.7	51
46	Structural Defects Induced in ETS-10 by Postsynthesis Treatment with H2O2Solution. Chemistry of Materials, 2006, 18, 3813-3820.	3.2	51
47	Proton Mobility, Intrinsic Acid Strength, and Acid Site Location in Zeolites Revealed by Varying Temperature Infrared Spectroscopy and Density Functional Theory Studies. Journal of the American Chemical Society, 2018, 140, 17790-17799.	6.6	51
48	Pore topology control of three-dimensional large pore cubic silica mesophases. Journal of Materials Chemistry, 2005, 15, 5112.	6.7	50
49	Eine einfache und flexible Synthese von Pyrrolen ausÎ±,Î²-ungesÃttigten Sulfonen. Helvetica Chimica Acta, 1998, 81, 1978-1996.	1.0	48
50	Scalable One-Pot Synthesis of Yolkâ€“Shell Carbon Nanospheres with Yolk-Supported Pd Nanoparticles for Size-Selective Catalysis. Chemistry of Materials, 2018, 30, 2483-2487.	3.2	48
51	Generation of hierarchical pore systems in the titanosilicate ETS-10 by hydrogen peroxide treatment under microwave irradiation. Chemical Communications, 2006, , 882.	2.2	46
52	Formation of surface barriers on silicalite-1 crystal fragments by residual water vapour as probed with isobutane by interference microscopy. Microporous and Mesoporous Materials, 2008, 110, 72-76.	2.2	46
53	Inflection in the loading dependence of the Maxwellâ€“Stefan diffusivity of iso-butane in MFI zeolite. Chemical Physics Letters, 2008, 459, 141-145.	1.2	44
54	Surfaceâ€Casting Synthesis of Mesoporous Zirconia with a CMKâ€5â€Like Structure and High Surface Area. Angewandte Chemie - International Edition, 2017, 56, 11222-11225.	7.2	44

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55	Alkene epoxidation with mesoporous materials assembled from TS-1 seeds â€“ Is there a hierarchical pore system?. Journal of Catalysis, 2010, 269, 367-375.	3.1	42
56	Controllable Synthesis of Mesoporous Peapodâ€like Co₃O₄@Carbon Nanotube Arrays for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie, 2015, 127, 7166-7170.	1.6	42
57	VPI-5 and related aluminophosphates: Preparation and thermal stability. Zeolites, 1992, 12, 2-8.	0.9	41
58	Highly microporous monodisperse silica spheres synthesized by the StÃ¶ber process. Microporous and Mesoporous Materials, 2014, 200, 317-325.	2.2	40
59	The benefit of mesopores in ETS-10 on the vapor-phase Beckmann rearrangement of cyclohexanone oxime. Journal of Catalysis, 2008, 254, 84-90.	3.1	39
60	Sorption mechanisms of chlorinated hydrocarbons on biochar produced from different feedstocks: Conclusions from single- and bi-solute experiments. Chemosphere, 2018, 203, 34-43.	4.2	36
61	Preparation and Morphology of Pyramidal MFI Single-Crystal Segments. Journal of Physical Chemistry B, 2007, 111, 13538-13543.	1.2	35
62	Small gold particles supported on MgFe2O4 nanocrystals as novel catalyst for CO oxidation. Applied Catalysis A: General, 2010, 386, 94-100.	2.2	34
63	Size-Controlled Synthesis and Microstructure Investigation of Co₃O₄ Nanoparticles for Low-Temperature CO Oxidation. Journal of Physical Chemistry C, 2012, 116, 19405-19412.	1.5	33
64	Nanosized Transition Metal Spinels with High Surface Areas from Zeolite Precursors. Chemistry of Materials, 2001, 13, 607-612.	3.2	31
65	Synthesis and Characterization of Nanocast Silica NCS-1 with CMK-3 as a Template. Chemistry - A European Journal, 2004, 10, 6085-6092.	1.7	31
66	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie, 2016, 128, 11267-11271.	1.6	31
67	Low temperature oxidative template removal from SBA-15 using MnO4â¯solution and carbon replication of the mesoporous silica product. Journal of Materials Chemistry, 2006, 16, 3396-3401.	6.7	28
68	Crosslinked TS-1 as stable catalyst for the Beckmann rearrangement of cyclohexanone oxime. Microporous and Mesoporous Materials, 2009, 117, 228-232.	2.2	28
69	Direct Atomicâ€Level Imaging of Zeolites: Oxygen, Sodium in Naâ€LTA and Iron in Feâ€MFI. Angewandte Chemie - International Edition, 2020, 59, 19510-19517.	7.2	28
70	Taking Nanocasting One Step Further: Replicating CMK-3 as a Silica Material. Angewandte Chemie, 2002, 114, 3639-3642.	1.6	27
71	The Incorporation of C60 in Molecular Sieves. Angewandte Chemie International Edition in English, 1993, 32, 556-557.	4.4	23
72	Insights into the mechanochemical synthesis of Sn-Î²: Solid-state metal incorporation in beta zeolite. Microporous and Mesoporous Materials, 2020, 309, 110566.	2.2	23

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73	Accessing Ultrashort Reaction Times in Particle Formation with SAXS Experiments: ZnS Precipitation on the Microsecond Time Scale. Journal of the American Chemical Society, 2010, 132, 6822-6826.	6.6	22
74	On the influence of ion exchange on the local structure of the titanosilicate ETS-10. Physical Chemistry Chemical Physics, 2007, 9, 3440.	1.3	21
75	Zeolite Beta Formation from Clear Sols: Silicate Speciation, Particle Formation and Crystallization Monitored by Complementary Analysis Methods. Chemistry - A European Journal, 2016, 22, 15307-15319.	1.7	21
76	Formation of amorphous carbon nanotubes on ordered mesoporous silica support. Carbon, 2005, 43, 1811-1814.	5.4	20
77	Gas-phase synthesis of oxymethylene ethers over Si-rich zeolites. Green Chemistry, 2018, 20, 4719-4728.	4.6	20
78	A novel synthesis route for high surface area spinels using ion exchanged zeolites as precursors. Microporous and Mesoporous Materials, 2001, 48, 89-94.	2.2	19
79	Formation and Characterization of Pt Nanoparticle Networks. European Journal of Inorganic Chemistry, 2005, 2005, 3625-3640.	1.0	19
80	Oxidation behavior of ferrous cations during ion exchange into zeolites under atmospheric conditions. Microporous and Mesoporous Materials, 2005, 84, 302-317.	2.2	18
81	Ordered mesoporous materials with MFI structured microporous walls â€“ Synthesis and proof of wall microporosity. Microporous and Mesoporous Materials, 2012, 164, 21-31.	2.2	17
82	Multidiagnostic analysis of silicate speciation in clear solutions/sols for zeolite synthesis. Microporous and Mesoporous Materials, 2014, 189, 158-162.	2.2	17
83	Ozone Treatment: A Versatile Tool for the Postsynthesis Modification of Porous Silica-Based Materials. Chemistry of Materials, 2018, 30, 8905-8914.	3.2	16
84	Evidence for the existence of Î²-Na3AlH6: Monitoring the phase transformation from Î±-Na3AlH6 by in situ methods. Journal of Alloys and Compounds, 2005, 398, 228-234.	2.8	15
85	Unraveling Direct Formation of Hierarchical Zeolite Beta by Dynamic Light Scattering, Small Angle X-ray Scattering, and Liquid and Solid-State NMR: Insights at the Supramolecular Level. Chemistry of Materials, 2018, 30, 2676-2686.	3.2	15
86	Aspects of the characterization of cloverite by solid-state n.m.r. techniques. Zeolites, 1993, 13, 607-610.	0.9	14
87	In Situ Synchrotron Xâ€ray Diffraction Studies of the Mechanochemical Synthesis of ZnS from its Elements. Chemistry - A European Journal, 2021, 27, 12558-12565.	1.7	14
88	In situ synchrotron x-ray diffraction studies monitoring mechanochemical reactions of hard materials: Challenges and limitations. Review of Scientific Instruments, 2021, 92, 114102.	0.6	14
89	Synthesis of a Novel Enantiomerically Pure Chlorin as a Potential Subunit for an Artificial Photosynthetic Reaction Center. Synlett, 1997, 1997, 903-904.	1.0	13
90	Flexibility versus rigidity: what determines the stability of zeolite frameworks? A case study. Materials Horizons, 2014, 1, 582-587.	6.4	13

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91	Pseudomorphic Generation of Supported Catalysts for Glycerol Oxidation. ChemCatChem, 2015, 7, 3832-3837.	1.8	13
92	1H NMR signal broadening in spectra of alkane molecules adsorbed on MFI-type zeolites. Solid State Nuclear Magnetic Resonance, 2008, 33, 65-71.	1.5	12
93	Hydrothermally highly stable acidic mesoporous aluminosilicate spheres with radial channels. Journal of Materials Chemistry, 2011, 21, 880-886.	6.7	12
94	Surfaceâ€Casting Synthesis of Mesoporous Zirconia with a CMKâ€5â€Like Structure and High Surface Area. Angewandte Chemie, 2017, 129, 11374-11377.	1.6	10
95	Effect of water leaching on biochar properties and its impact on organic contaminant sorption. Environmental Science and Pollution Research, 2020, 27, 691-703.	2.7	10
96	Expanding horizons of mesoporous materials to non-siliceous systems. Studies in Surface Science and Catalysis, 2003, , 399-406.	1.5	9
97	Sorbate-induced changes in the framework of the titanosilicate ETS-10 as detected by 29Si MAS NMR spectroscopy and X-ray powder diffraction. Physical Chemistry Chemical Physics, 2003, 5, 773-777.	1.3	9
98	Effect of preparation of iron-infiltrated activated carbon catalysts on nitrogen oxide conversion at low temperature. Applied Catalysis B: Environmental, 2014, 160-161, 641-650.	10.8	9
99	Encapsulation of sub-micrometer sized zeolites by porous silica â€“ towards a rational design strategy for functional yolk-shells. Microporous and Mesoporous Materials, 2019, 282, 1-8.	2.2	9
100	High Dynamics of Vapor Adsorption in Ordered Mesoporous Carbon CMK-5: A Small Angle X-ray Scattering Study. Journal of Physical Chemistry C, 2020, 124, 21418-21425.	1.5	9
101	Chemical Affinity of Ag-Exchanged Zeolites for Efficient Hydrogen Isotope Separation. Inorganic Chemistry, 2022, 61, 9413-9420.	1.9	9
102	Catalytic reduction of nitrogen oxides via nanoscopic oxide catalysts within activated carbons at room temperature. Adsorption, 2013, 19, 1027-1033.	1.4	7
103	Influence of the degree of infiltration of modified activated carbons with CuO/ZnO on the separation of NO₂ at ambient temperatures. Adsorption Science and Technology, 2016, 34, 307-319.	1.5	7
104	Carbon Supported Phosphoric Acid Catalysts for Gas-Phase Synthesis of Diesel Additives. Catalysis Letters, 2020, 150, 2951-2958.	1.4	7
105	In situ total scattering experiments of nucleation and crystallisation of tantalum-based oxides: from highly dilute solutions via cluster formation to nanoparticles. Nanoscale, 2021, 13, 150-162.	2.8	7
106	Crystal Structures of Two Titanium Phosphate-Based Proton Conductors: Ab Initio Structure Solution and Materials Properties. Inorganic Chemistry, 2022, 61, 2379-2390.	1.9	7
107	Emission Spectroscopic Investigation of Triplet Diarylcarbene Generated in Molecular Sieve VPI-5. Journal of Physical Chemistry B, 2005, 109, 20407-20414.	1.2	6
108	Catalytic Hydrodesulfurization of Gaseous Fuels with Autogenously Formed Hydrogen. Chemie-Ingenieur-Technik, 2021, 93, 1028-1032.	0.4	6

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109	IR Microimaging of Directionâ€Dependent Uptake in MFIâ€Type Crystals. Chemie-Ingenieur-Technik, 2017, 89, 1686-1693.	0.4	5
110	Facile synthesis of novel, known, and low-valent transition metal phosphates via reductive phosphatization. Journal of Materials Chemistry A, 2021, 9, 18247-18250.	5.2	5
111	Sâ€PEEK as a Catalyst for Gas Phase OME Synthesis. ChemCatChem, 2021, 13, 2634-2640.	1.8	5
112	Monitoring the Structure Evolution of Titanium Oxide Photocatalysts: From the Molecular Form via the Amorphous State to the Crystalline Phase. Chemistry - A European Journal, 2021, 27, 11600-11608.	1.7	5
113	Studying Proton Mobility in Zeolites by Varying Temperature Infrared Spectroscopy. Molecules, 2019, 24, 3199.	1.7	4
114	Self-organization of silicates on different length scales exemplified by amorphous mesoporous silica and mesoporous zeolite beta using multiammonium surfactants. RSC Advances, 2020, 10, 20928-20938.	1.7	4
115	From 1D to 3D Graphitic Carbon Nitride (Melon): A Bottom-Up Route via Crystalline Microporous Templates. Inorganic Chemistry, 2021, 60, 18957-18963.	1.9	4
116	The thermal stability of the gallophosphate cloverite. Studies in Surface Science and Catalysis, 1997, , 771-778.	1.5	3
117	Thermal induced transformations on completely Zn2+ exchanged zeolites A and Y. Zeitschrift Fur Kristallographie - Crystalline Materials, 2001, 216, 105-111.	0.4	3
118	Texture Effects of Circularly Ordered Fibers. ChemPhysChem, 2005, 6, 1269-1275.	1.0	3
119	Direct Synthesis of Supported Noble Metal Catalysts via the Activated Carbon Route. Zeitschrift Fur Physikalische Chemie, 2005, 219, 939-948.	1.4	3
120	Synthetic ferripyrophyllite: preparation, characterization and catalytic application. Dalton Transactions, 2021, 50, 850-857.	1.6	3
121	Synthesis of Active Carbon-Based Catalysts by Chemical Vapor Infiltration for Nitrogen Oxide Conversion. Journal of Nanoscience and Nanotechnology, 2011, 11, 7956-7961.	0.9	2
122	One-pot synthesis of polyhedron-like hollow aluminosilicate with mesoporous shells. Journal of Materials Chemistry, 2012, 22, 2473-2477.	6.7	2
123	Microstructure analysis of complex CuO/ZnO@carbon adsorbers: what are the limits of powder diffraction methods?. Physical Chemistry Chemical Physics, 2015, 17, 12282-12291.	1.3	2
124	Direct Atomicâ€Level Imaging of Zeolites: Oxygen, Sodium in Naâ€LTA and Iron in Feâ€MFI. Angewandte Chemie, 2020, 132, 19678-19685.	1.6	2
125	In Situ Synchrotron Xâ€ray Diffraction Studies of the Mechanochemical Synthesis of ZnS from its Elements. Chemistry - A European Journal, 2021, 27, 12451-12452.	1.7	2
126	Titanium-Based Nanoporous Materials. , 2009, , 51-75.		1

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127	Fabrication of Magnetically Separable Mesostructured Silica with an Open Pore System.. ChemInform, 2004, 35, no.	0.1	0
128	Nanoengineering of a Magnetically Separable Hydrogenation Catalyst.. ChemInform, 2004, 35, no.	0.1	0
129	Evolution of mesoporosity and microporosity of SBA-15 during a treatment with sulfuric acid. Studies in Surface Science and Catalysis, 2007, 165, 195-198.	1.5	0
130	Titelbild: Direct Atomicâ€Ł evel Imaging of Zeolites: Oxygen, Sodium in Naâ€ŁTA and Iron in Feâ€ŁMFI (Angew.) Tj ETQq0 0 0 rgBT /Overlo	1.6	0
131	Microporous and Mesoporous Catalysts. , 2006, , 95-140.		0
132	Transient uptake measurements with a physisorption instrument: Trends in gas-phase diffusivities within mesoporous materials. Microporous and Mesoporous Materials, 2022, 330, 111627.	2.2	0