

Christine Eva Antonia Kirschhock

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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, 4293-4297.	7.2	496
2	Selective Adsorption and Separation of <i>ortho</i> -Substituted Alkylaromatics with the Microporous Aluminum Terephthalate MIL-53. <i>Journal of the American Chemical Society</i> , 2008, 130, 14170-14178.	6.6	376
3	Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOH~TEOS~H ₂ O System. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4965-4971.	1.2	299
4	Characterization of Nanosized Material Extracted from Clear Suspensions for MFI Zeolite Synthesis. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4960-4964.	1.2	212
5	Separation of Styrene and Ethylbenzene on Metal~Organic Frameworks: Analogous Structures with Different Adsorption Mechanisms. <i>Journal of the American Chemical Society</i> , 2010, 132, 15277-15285.	6.6	195
6	Biobutanol Separation with the Metal~Organic Framework ZIF~8. <i>ChemSusChem</i> , 2011, 4, 1074-1077.	3.6	192
7	Nominal and Effective Dosimetry of Silica Nanoparticles in Cytotoxicity Assays. <i>Toxicological Sciences</i> , 2008, 104, 155-162.	1.4	183
8	Mechanism of Transformation of Precursors into Nanoslabs in the Early Stages of MFI and MEL Zeolite Formation from TPAOH~TEOS~H ₂ O and TBAOH~TEOS~H ₂ O Mixtures. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4972-4978.	1.2	175
9	Zeosil Nanoslabs: Building Blocks in Pr ⁴⁺ -Mediated Synthesis of MFI Zeolite. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2637-2640.	7.2	172
10	Physicochemical Characterization of Silicalite-1 Nanophase Material. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2633-2639.	1.2	166
11	Design of zeolite by inverse sigma transformation. <i>Nature Materials</i> , 2012, 11, 1059-1064.	13.3	161
12	Aggregation Mechanism of Nanoslabs with Zeolite MFI-Type Structure. <i>Journal of Physical Chemistry B</i> , 1999, 103, 11021-11027.	1.2	158
13	Framework Breathing in the Vapour~Phase Adsorption and Separation of Xylene Isomers with the Metal~Organic Framework MIL~53. <i>Chemistry - A European Journal</i> , 2009, 15, 7724-7731.	1.7	158
14	Convenient synthesis of Cu ₃ (BTC) ₂ encapsulated Keggin heteropolyacid nanomaterial for application in catalysis. <i>Chemical Communications</i> , 2010, 46, 8186.	2.2	158
15	NH ₂ -MIL-53(Al): A High-Contrast Reversible Solid-State Nonlinear Optical Switch. <i>Journal of the American Chemical Society</i> , 2012, 134, 8314-8317.	6.6	144
16	Synthesis and Characterization of Stable Monodisperse Silica Nanoparticle Sols for <i>in Vitro</i> Cytotoxicity Testing. <i>Langmuir</i> , 2010, 26, 328-335.	1.6	137
17	Molecular shape-selectivity of MFI zeolite nanosheets in n-decane isomerization and hydrocracking. <i>Journal of Catalysis</i> , 2013, 300, 70-80.	3.1	132
18	Comment on "Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOH~TEOS~H ₂ O System". <i>Journal of Physical Chemistry B</i> , 2002, 106, 3329-3332.	1.2	127

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19	Influence of size, surface area and microporosity on the <i>in vitro</i> cytotoxic activity of amorphous silica nanoparticles in different cell types. <i>Nanotoxicology</i> , 2010, 4, 307-318.	1.6	122
20	Adsorption and Separation of Light Gases on an Amino-Functionalized Metal-Organic Framework: An Adsorption and <i>In Situ</i> XRD Study. <i>ChemSusChem</i> , 2012, 5, 740-750.	3.6	115
21	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, 10911-10919.	6.6	112
22	Direct Observation of Molecular-Level Template Action Leading to Self-Assembly of a Porous Framework. <i>Chemistry - A European Journal</i> , 2010, 16, 3926-3932.	1.7	106
23	Local transformation of ZIF-8 powders and coatings into ZnO nanorods for photocatalytic application. <i>Nanoscale</i> , 2014, 6, 2056.	2.8	105
24	Localization of Residual Water in Alkali-Metal Cation-Exchanged X and Y Type Zeolites. <i>Journal of Physical Chemistry B</i> , 2000, 104, 439-448.	1.2	104
25	A Flexible Photoactive Titanium Metal-Organic Framework Based on a $[Ti^{IV}_3(\mu_3(\mu_4O)(O)_2(COO)_6)]$ Cluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13912-13917.	7.2	103
26	Design and Synthesis of Hierarchical Materials from Ordered Zeolitic Building Units. <i>Chemistry - A European Journal</i> , 2005, 11, 4306-4313.	1.7	101
27	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.	2.2	98
28	Interplay of Metal Node and Amine Functionality in NH_2 -MIL-53: Modulating Breathing Behavior through Intra-framework Interactions. <i>Langmuir</i> , 2012, 28, 12916-12922.	1.6	98
29	Methods for in situ spectroscopic probing of the synthesis of a zeolite. <i>Chemical Society Reviews</i> , 2010, 39, 4626.	18.7	94
30	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, 382-395.	1.6	91
31	Tiling Silicalite-1 Nanoslabs into 3D Mosaics. <i>Advanced Materials</i> , 2003, 15, 1705-1707.	11.1	90
32	An Inner-/Outer-Sphere Stabilized Sn Active Site in β -Zeolite: Spectroscopic Evidence and Kinetic Consequences. <i>ACS Catalysis</i> , 2016, 6, 31-46.	5.5	89
33	Adsorption and Diffusion of Aromatic Hydrocarbons in Zeolite Y by Molecular Mechanics Calculation and X-ray Powder Diffraction. <i>The Journal of Physical Chemistry</i> , 1994, 98, 12345-12360.	2.9	88
34	Alumina: discriminative analysis using 3D correlation of solid-state NMR parameters. <i>Chemical Society Reviews</i> , 2019, 48, 134-156.	18.7	85
35	Alkaline cations directing the transformation of FAU zeolites into five different framework types. <i>Chemical Communications</i> , 2013, 49, 11737.	2.2	84
36	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.	3.2	82

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37	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.	1.5	81
38	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.	1.2	77
39	Formation of ZSM-22 Zeolite Catalytic Particles by Fusion of Elementary Nanorods. <i>Chemistry - A European Journal</i> , 2007, 13, 10070-10077.	1.7	77
40	Heteropolyacid encapsulated in Cu ₃ (BTC) ₂ nanocrystals: An effective esterification catalyst. <i>Catalysis Today</i> , 2011, 171, 275-280.	2.2	76
41	Catalyst Design by NH ₄ OH Treatment of USY Zeolite. <i>Advanced Functional Materials</i> , 2015, 25, 7130-7144.	7.8	76
42	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. <i>ACS Omega</i> , 2016, 1, 148-159.	1.6	76
43	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.	1.5	72
44	Conceptual Frame Rationalizing the Self-Stabilization of H-USY Zeolites in Hot Liquid Water. <i>ACS Catalysis</i> , 2015, 5, 754-768.	5.5	70
45	Zn-Co Double Metal Cyanides as Heterogeneous Catalysts for Hydroamination: A Structure-Activity Relationship. <i>ACS Catalysis</i> , 2013, 3, 597-607.	5.5	67
46	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.	1.3	66
47	Quantitative Three-Dimensional Modeling of Zeolite Through Discrete Electron Tomography. <i>Journal of the American Chemical Society</i> , 2009, 131, 4769-4773.	6.6	66
48	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.	1.6	66
49	A zirconium squarate metal-organic framework with modulator-dependent molecular sieving properties. <i>Chemical Communications</i> , 2014, 50, 10055-10058.	2.2	64
50	Gallium Oxide Nanorods: Novel, Template-Free Synthesis and High Catalytic Activity in Epoxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1585-1589.	7.2	63
51	Analysis and experimental verification of a metallic suspended plate resonator for viscosity sensing. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 418-424.	2.0	62
52	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.	6.6	62
53	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, 4585-4588.	7.2	61
54	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, 2764-2774.	1.7	60

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55	MFI Fingerprint: How Pentasil-Induced IR Bands Shift during Zeolite Nanogrowth. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9186-9191.	1.5	59
56	ZIF-8 as Nonlinear Optical Material: Influence of Structure and Synthesis. <i>Chemistry of Materials</i> , 2016, 28, 3203-3209.	3.2	57
57	m-Dinitrobenzene in zeolite NaY: Four different arrangements. <i>Zeolites</i> , 1996, 17, 381-388.	0.9	54
58	Continuous Synthesis Process of Hexagonal Nanoplates of <i>P6m</i> Ordered Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2011, 133, 13737-13745.	6.6	54
59	Rotational Entropy Driven Separation of Alkane/Isoalkane Mixtures in Zeolite Cages. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 400-403.	7.2	53
60	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, 22767-22774.	1.2	53
61	Simple synthesis recipes of porous materials. <i>Microporous and Mesoporous Materials</i> , 2011, 140, 2-8.	2.2	53
62	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.	1.5	51
63	Adsorption of pyrrole derivatives in alkali metal cation-exchanged faujasites: comparative studies by surface vibrational techniques, X-ray diffraction and temperature-programmed desorption augmented with theoretical studies Part I. Pyrrole as probe molecule. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 593-603.	1.3	48
64	Model System to Study the Influence of Aggregation on the Hemolytic Potential of Silica Nanoparticles. <i>Chemical Research in Toxicology</i> , 2011, 24, 1869-1875.	1.7	48
65	Incorporation of methylene blue in NaY zeolite at crystallographically defined positions. <i>Advanced Materials</i> , 1995, 7, 61-64.	11.1	47
66	Self-Assembly of Pluronic F127-Silica Spherical Core-Shell Nanoparticles in Cubic Close-Packed Structures. <i>Chemistry of Materials</i> , 2015, 27, 5161-5169.	3.2	47
67	Catalytic Carbon Oxidation Over Ruthenium-Based Catalysts. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3106-3109.	7.2	45
68	Co-assessment of cell cycle and micronucleus frequencies demonstrates the influence of serum on the <i>in vitro</i> genotoxic response to amorphous monodisperse silica nanoparticles of varying sizes. <i>Nanotoxicology</i> , 2014, 8, 876-884.	1.6	44
69	Synthesis, Location, and Photoinduced Transformation of Zeolite-Encaged Thioindigo. <i>Langmuir</i> , 1994, 10, 1517-1523.	1.6	43
70	Characterization of a Molecular Sieve Coating Using Ellipsometric Porosimetry. <i>Langmuir</i> , 2007, 23, 12811-12816.	1.6	43
71	Silicalite-1 Zeogrid: A New Silica Molecular Sieve with Super- and Ultra-Micropores. <i>Advanced Functional Materials</i> , 2002, 12, 286.	7.8	42
72	Optical Property Changes in Low-k Films upon Ultraviolet-Assisted Curing. <i>Journal of the Electrochemical Society</i> , 2008, 155, G115.	1.3	42

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73	Alkene epoxidation with mesoporous materials assembled from TS-1 seeds " Is there a hierarchical pore system?. Journal of Catalysis, 2010, 269, 367-375.	3.1	42
74	TEM Observation of Aggregation Steps in Room-Temperature Silicalite-1 Zeolite Formation. Journal of Physical Chemistry C, 2007, 111, 14283-14285.	1.5	41
75	Recovery and reuse of heteropolyacid catalyst in liquid reaction medium through reversible encapsulation in Cu ₃ (BTC) ₂ metal-organic framework. Chemical Science, 2012, 3, 1847.	3.7	41
76	NMR Evidence for Specific Germanium Siting in IM-12 Zeolite. Chemistry of Materials, 2014, 26, 5556-5565.	3.2	41
77	Aniline and m-dinitrobenzene in NaY " charge transfer complexes absorbed in a zeolitic host. Microporous Materials, 1997, 8, 19-28.	1.6	40
78	Interaction of Water with Alkali-Metal Cation-Exchanged X Type Zeolites: A Temperature-Programmed Desorption (TPD) and X-ray Diffraction Study. Langmuir, 1999, 15, 5937-5941.	1.6	40
79	Reply to the Comment on "Identification of Precursor Species in the Formation of MFI Zeolite in the TPAOH-TEOS-H ₂ O System". Journal of Physical Chemistry B, 2002, 106, 3333-3334.	1.2	40
80	Zeolites X and A crystallization compared by simultaneous UV/VIS-Raman and X-ray diffraction. Physical Chemistry Chemical Physics, 2011, 13, 13730.	1.3	39
81	Framework flexibility-driven CO ₂ adsorption on a zeolite. Materials Horizons, 2020, 7, 1528-1532.	6.4	39
82	Ultraviolet-Assisted Curing of Polycrystalline Pure-Silica Zeolites: Hydrophobization, Functionalization, and Cross-Linking of Grains. Journal of the American Chemical Society, 2007, 129, 9288-9289.	6.6	38
83	Zeolite-Inspired Low-k Dielectrics Overcoming Limitations of Zeolite Films. Journal of the American Chemical Society, 2008, 130, 17528-17536.	6.6	36
84	Biogas upgrading through kinetic separation of carbon dioxide and methane over Rb- and Cs-ZK-5 zeolites. RSC Advances, 2014, 4, 62511-62524.	1.7	36
85	Catalytic activity and extra-large pores of germanosilicate UTL zeolite demonstrated with decane test reaction. Catalysis Science and Technology, 2011, 1, 246.	2.1	35
86	Evidence of Large Voids in Pure-Silica Zeolite Low-k Dielectrics Synthesized by Spin-Coating of Nanoparticle Suspensions. Advanced Materials, 2008, 20, 3110-3116.	11.1	34
87	Polar arenes in faujasites. Studies in Surface Science and Catalysis, 1994, 84, 843-850.	1.5	33
88	Effect of Keggin polyoxometalate on Cu(II) speciation and its role in the assembly of Cu ₃ (BTC) ₂ metal-organic framework. Journal of Materials Chemistry, 2011, 21, 9768.	6.7	33
89	UV-Raman and ²⁹ Si NMR Spectroscopy Investigation of the Nature of Silicate Oligomers Formed by Acid Catalyzed Hydrolysis and Polycondensation of Tetramethylorthosilicate. Journal of Physical Chemistry C, 2011, 115, 11077-11088.	1.5	33
90	Enthalpic effects in the adsorption of alkylaromatics on the metal-organic frameworks MIL-47 and MIL-53. Microporous and Mesoporous Materials, 2012, 157, 82-88.	2.2	33

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91	Multi-level Modeling of Silicaâ€“Template Interactions During Initial Stages of Zeolite Synthesis. Topics in Catalysis, 2009, 52, 1261-1271.	1.3	31
92	Investigation of the cytotoxicity of nanozeolites A and Y. Nanotoxicology, 2012, 6, 472-485.	1.6	30
93	Decane hydroconversion on bifunctional Zeogrid and nano-zeolite assembled from aluminosilicate nanoslabs of MFI framework type. Applied Catalysis A: General, 2004, 257, 7-17.	2.2	29
94	Reduction of Se(IV) in Boom Clay: XAS Solid Phase Speciation. Environmental Science & Technology, 2010, 44, 6649-6655.	4.6	29
95	Removal of cyclopentadiene from 1-octene by transition metal containing zeolites â€“ Part 2: Stabilization of CoCaX zeolite by its cation distribution. Microporous and Mesoporous Materials, 2007, 103, 11-19.	2.2	27
96	PdPb-Catalyzed Decarboxylation of Proline to Pyrrolidine: Highly Selective Formation of a Biobased Amine in Water. ACS Catalysis, 2016, 6, 7303-7310.	5.5	27
97	Hydrolysis of carboxyesters promoted by vanadium(V) oxyanions. Dalton Transactions, 2011, 40, 295-300.	1.6	26
98	Anisotropic Atomic Layer Deposition Profiles of TiO_2 in Hierarchical Silica Material with Multiple Porosity. Chemistry of Materials, 2012, 24, 2775-2780.	3.2	26
99	Ultra-thin zeolite films prepared by spin-coating Silicalite-1 precursor solutions. Chemical Physics Letters, 2003, 382, 404-409.	1.2	23
100	Evolution of the crystal growth mechanism of zeolite W (MER) with temperature. Microporous and Mesoporous Materials, 2019, 274, 379-384.	2.2	23
101	Adsorptive separation of NOx in presence of SOx from gas mixtures simulating lean burn engine exhaust by pressure swing process on Naâ€“Y zeolite. Applied Catalysis B: Environmental, 2004, 48, 65-76.	10.8	22
102	Ultraviolet-Assisted Curing of Organosilicate Glass Low-k Dielectric by Excimer Lamps. Journal of the Electrochemical Society, 2008, 155, G231.	1.3	22
103	Viscosity sensing in heated alkaline zeolite synthesis media. Physical Chemistry Chemical Physics, 2009, 11, 2854-2857.	1.3	22
104	Modelling of synchrotron SAXS patterns of silicalite-1 zeolite during crystallization. Physical Chemistry Chemical Physics, 2011, 13, 4318.	1.3	22
105	Catalytic activity of germanosilicate UTL zeolite in bifunctional hydroisomerisation of n-decane. Microporous and Mesoporous Materials, 2013, 166, 153-160.	2.2	22
106	Absolute Quantification of Water in Microporous Solids with 1H Magic Angle Spinning NMR and Standard Addition. Analytical Chemistry, 2017, 89, 6940-6943.	3.2	22
107	Reaction of Trimethylchlorosilane in Spin-On Silicalite-1 Zeolite Film. Langmuir, 2008, 24, 4894-4900.	1.6	21
108	Investigation of Nanoparticles Occurring in the Colloidal Silicalite-1 Zeolite Crystallization Process Using Dissolution Experiments. Chemistry of Materials, 2010, 22, 3619-3629.	3.2	21

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109	Zeolite Beta Formation from Clear Sols: Silicate Speciation, Particle Formation and Crystallization Monitored by Complementary Analysis Methods. <i>Chemistry - A European Journal</i> , 2016, 22, 15307-15319.	1.7	21
110	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.	6.6	21
111	Characterization of spin-on zeolite films prepared from Silicalite-1 nanoparticle suspensions. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 458-466.	2.2	20
112	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.	0.8	20
113	Multifunctional Ln^{3+} -NaGdF ₄ :Ln ³⁺ (Ln = Yb, Er, Dy) nanoparticles with NIR to visible upconversion and high transverse relaxivity: a potential bimodal contrast agent for high-field MRI and optical imaging. <i>RSC Advances</i> , 2016, 6, 61443-61448.	1.7	20
114	An in situ investigation of the water-induced phase transformation of UTSA-74 to MOF-74(Zn). <i>CrystEngComm</i> , 2017, 19, 4152-4156.	1.3	20
115	Prototype high-throughput system for hydrothermal synthesis and X-ray diffraction of microporous and mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 62-68.	2.2	19
116	Ordered End-Member of ZSM-48 Zeolite Family. <i>Chemistry of Materials</i> , 2009, 21, 371-380.	3.2	19
117	Hierarchical self-supported ZnAlEu LDH nanotubes hosting luminescent CdTe quantum dots. <i>Chemical Communications</i> , 2017, 53, 7341-7344.	2.2	19
118	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.	1.3	18
119	<i>NO_x</i> Adsorption Site Engineering in Ru/Ba,Na ⁺ Y Zeolite. <i>Chemistry of Materials</i> , 2011, 23, 4606-4611.	3.2	18
120	Temperature swing adsorption of NO _x over Keggin type heteropolyacids. <i>Energy and Environmental Science</i> , 2010, 3, 910.	15.6	17
121	Multidiagnostic analysis of silicate speciation in clear solutions/sols for zeolite synthesis. <i>Microporous and Mesoporous Materials</i> , 2014, 189, 158-162.	2.2	17
122	Postsynthetic High-Alumina Zeolite Crystal Engineering in Organic-Free Hyper-Alkaline Media. <i>Chemistry of Materials</i> , 2017, 29, 629-638.	3.2	17
123	Selective Catalytic Oxidation of Ammonia into Dinitrogen over a Zeolite-Supported Ruthenium Dioxide Catalyst. <i>ChemCatChem</i> , 2012, 4, 1162-1166.	1.8	16
124	Super-ions of sodium cations with hydrated hydroxide anions: inorganic structure-directing agents in zeolite synthesis. <i>Materials Horizons</i> , 2021, 8, 2576-2583.	6.4	16
125	n-Alkane hydroconversion on Zeogrid and colloidal ZSM-5 assembled from aluminosilicate nanoslabs of MFI framework type. <i>Chemical Communications</i> , 2003, , 1888.	2.2	15
126	Catalytic and molecular separation properties of Zeogrids and Zeotiles. <i>Catalysis Today</i> , 2011, 168, 17-27.	2.2	15

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127	COK-16: A Cation-Exchanging Metal-Organic Framework Hybrid. ChemPlusChem, 2013, 78, 402-406.	1.3	15
128	Cation Exchange Properties of Zeolites in Hyper Alkaline Aqueous Media. Environmental Science & Technology, 2015, 49, 1729-1737.	4.6	15
129	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
130	Location and photostability of faujasite-incorporated methylene blue. Studies in Surface Science and Catalysis, 1994, , 821-827.	1.5	14
131	Effect of Gravity on the Gelation of Silica Sols. Chemistry of Materials, 2007, 19, 660-664.	3.2	13
132	Flexibility versus rigidity: what determines the stability of zeolite frameworks? A case study. Materials Horizons, 2014, 1, 582-587.	6.4	13
133	Chabazite: Stable Cation-Exchanger in Hyper Alkaline Concrete Pore Water. Environmental Science & Technology, 2015, 49, 2358-2365.	4.6	13
134	Ion-Pairs in Aluminosilicate-Alkali Synthesis Liquids Determine the Aluminum Content and Topology of Crystallizing Zeolites. Chemistry of Materials, 2022, 34, 7150-7158.	3.2	13
135	Novel MoVSbO _x -type catalysts for selective isobutane oxidation. Catalysis Today, 2004, 91-92, 265-269.	2.2	12
136	Zeolite-2: A microporous analogue of MCM-48. Solid State Sciences, 2005, 7, 861-867.	1.5	12
137	Reversible NO _x storage over Ru/Na ⁺ Y zeolite. Chemical Science, 2010, 1, 763.	3.7	12
138	Adsorption Chemistry of Sulfur Dioxide in Hydrated Na ⁺ Y Zeolite. Angewandte Chemie - International Edition, 2004, 43, 3722-3724.	7.2	11
139	Characterization of COK-5, Member of a New Family of Zeolite Material with Multiple Channel Systems. Chemistry of Materials, 2005, 17, 5618-5624.	3.2	11
140	Prospects of transition interface sampling simulations for the theoretical study of zeolite synthesis. Physical Chemistry Chemical Physics, 2007, 9, 1044.	1.3	11
141	Kinetics of intermediate-mediated self-assembly in nanosized materials: A generic model. Journal of Chemical Physics, 2010, 132, 164701.	1.2	11
142	Erbium enhanced formation and growth of photoluminescent Er/Si nanocrystals. Thin Solid Films, 2013, 536, 196-201.	0.8	11
143	Anatase TiO ₂ nanoparticle coating on porous COK-12 platelets as highly active and reusable photocatalysts. RSC Advances, 2016, 6, 46678-46685.	1.7	11
144	Intrusion-extrusion spring performance of COK-14 zeolite enhanced by structural changes. Physical Chemistry Chemical Physics, 2016, 18, 18795-18801.	1.3	11

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145	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.	1.4	11
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