

# Svetlana Mintova

## List of Publications by Year in descending order

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314  
papers

13,359  
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30070

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321  
docs citations

321  
times ranked

9500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Zeolite A Nanocrystal Growth from Colloids at Room Temperature. <i>Science</i> , 1999, 283, 958-960.	12.6	593
2	Gas sensing using porous materials for automotive applications. <i>Chemical Society Reviews</i> , 2015, 44, 4290-4321.	38.1	406
3	Nanoporous materials with enhanced hydrophilicity and high water sorption capacity. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 1-26.	4.4	388
4	Tailored crystalline microporous materials by post-synthesis modification. <i>Chemical Society Reviews</i> , 2013, 42, 263-290.	38.1	388
5	Template-free nanosized faujasite-type zeolites. <i>Nature Materials</i> , 2015, 14, 447-451.	27.5	360
6	Perspectives of Micro/Mesoporous Composites in Catalysis. <i>Catalysis Reviews - Science and Engineering</i> , 2007, 49, 457-509.	12.9	350
7	Advances in nanosized zeolites. <i>Nanoscale</i> , 2013, 5, 6693.	5.6	337
8	Nanosized microporous crystals: emerging applications. <i>Chemical Society Reviews</i> , 2015, 44, 7207-7233.	38.1	291
9	Capturing Ultrasmall EMT Zeolite from Template-Free Systems. <i>Science</i> , 2012, 335, 70-73.	12.6	260
10	Seed-Induced Crystallization of Nanosized Na-ZSM-5 Crystals. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 7084-7091.	3.7	225
11	Electron Microscopy Reveals the Nucleation Mechanism of Zeolite Y from Precursor Colloids. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3201-3204.	13.8	213
12	Hydrogen positions in single nanocrystals revealed by electron diffraction. <i>Science</i> , 2017, 355, 166-169.	12.6	203
13	Variation of the Si/Al ratio in nanosized zeolite Beta crystals. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 237-245.	4.4	197
14	Mechanism of zeolites crystal growth: new findings and open questions. <i>CrystEngComm</i> , 2016, 18, 650-664.	2.6	168
15	Al-Rich Zeolite Beta by Seeding in the Absence of Organic Template. <i>Chemistry of Materials</i> , 2009, 21, 4184-4191.	6.7	167
16	Microporous Films Prepared by Spin-Coating Stable Colloidal Suspensions of Zeolites. <i>Advanced Materials</i> , 2001, 13, 1880.	21.0	160
17	Nanosized zeolite films for vapor-sensing applications. <i>Microporous and Mesoporous Materials</i> , 2001, 50, 159-166.	4.4	157
18	Preparation of nanosized micro/mesoporous composites via simultaneous synthesis of Beta/MCM-48 phases. <i>Microporous and Mesoporous Materials</i> , 2003, 64, 165-174.	4.4	143

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19	Progress in zeolite synthesis promotes advanced applications. Microporous and Mesoporous Materials, 2014, 189, 11-21.	4.4	142
20	Controlling the preferred orientation in silicalite-1 films synthesized by seeding. Microporous and Mesoporous Materials, 1999, 28, 185-194.	4.4	140
21	Humidity Sensing with Ultrathin LTA-Type Molecular Sieve Films Grown on Piezoelectric Devices. Chemistry of Materials, 2001, 13, 901-905.	6.7	137
22	One-pot synthesis of silanol-free nanosized MFI Zeolite. Nature Materials, 2017, 16, 1010-1015.	27.5	135
23	Nanosized AlPO <sub>4</sub> -5 Molecular Sieves and Ultrathin Films Prepared by Microwave Synthesis. Chemistry of Materials, 1998, 10, 4030-4036.	6.7	131
24	Layer-by-layer preparation of zeolite coatings of nanosized crystals. Microporous and Mesoporous Materials, 2001, 43, 41-49.	4.4	130
25	Nanosized SAPO-34 Synthesized from Colloidal Solutions. Chemistry of Materials, 2008, 20, 2956-2963.	6.7	127
26	Opening the Cages of Faujasite-Type Zeolite. Journal of the American Chemical Society, 2017, 139, 17273-17276.	13.7	125
27	Mechanism of the Transformation of Silica Precursor Solutions into Si-MFI Zeolite. Angewandte Chemie - International Edition, 2002, 41, 2558-2561.	13.8	120
28	Effect of the silica source on the formation of nanosized silicalite-1: an in situ dynamic light scattering study. Microporous and Mesoporous Materials, 2002, 55, 171-179.	4.4	113
29	Diffusion and catalyst efficiency in hierarchical zeolite catalysts. National Science Review, 2020, 7, 1726-1742.	9.5	104
30	Silanol defect engineering and healing in zeolites: opportunities to fine-tune their properties and performances. Chemical Society Reviews, 2021, 50, 11156-11179.	38.1	100
31	Preparation and characterization of hollow fibers of silicalite-1. Zeolites, 1996, 17, 408-415.	0.5	99
32	Environmental syntheses of nanosized zeolites with high yield and monomodal particle size distribution. Microporous and Mesoporous Materials, 2006, 96, 405-412.	4.4	89
33	The Mosaic Structure of Zeolite Crystals. Angewandte Chemie - International Edition, 2016, 55, 15049-15052.	13.8	88
34	Nanosized zeolites: Quo Vadis?. Comptes Rendus Chimie, 2016, 19, 183-191.	0.5	86
35	Zeolite Beta nanosized assemblies. Microporous and Mesoporous Materials, 2005, 80, 227-235.	4.4	85
36	Fluid catalytic cracking technology: current status and recent discoveries on catalyst contamination. Catalysis Reviews - Science and Engineering, 2019, 61, 333-405.	12.9	84

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37	Photochemical Preparation of Silver Nanoparticles Supported on Zeolite Crystals. <i>Langmuir</i> , 2014, 30, 6250-6256.	3.5	78
38	EMT-type zeolite nanocrystals synthesized from rice husk. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 204-209.	4.4	78
39	Photopolymerizable nanocomposites for holographic recording and sensor application. <i>Applied Optics</i> , 2010, 49, 3652.	2.1	75
40	Growth of silicalite films on pre-assembled layers of nanoscale seed crystals on piezoelectric chemical sensors. <i>Advanced Materials</i> , 1997, 9, 585-589.	21.0	74
41	ZSM-5 films prepared from template free precursors. <i>Journal of Materials Chemistry</i> , 1998, 8, 2217-2221.	6.7	71
42	The effect of the metal substrate composition on the crystallization of zeolite coatings. <i>Zeolites</i> , 1995, 15, 171-175.	0.5	70
43	Vibrational spectra of ETS-4 and ETS-10. <i>Zeolites</i> , 1996, 16, 22-24.	0.5	70
44	Catalytic activity of micro/mesoporous composites in toluene alkylation with propylene. <i>Applied Catalysis A: General</i> , 2005, 281, 85-91.	4.3	68
45	Nucleation and Crystal Growth Features of EMT-Type Zeolite Synthesized from an Organic-Template-Free System. <i>Chemistry of Materials</i> , 2012, 24, 4758-4765.	6.7	68
46	Kinetics of water adsorption in microporous aluminophosphate layers for regenerative heat exchangers. <i>Applied Thermal Engineering</i> , 2009, 29, 1514-1522.	6.0	65
47	Title is missing!. <i>Journal of Porous Materials</i> , 2001, 8, 13-22.	2.6	64
48	Red mud as aluminium source for the synthesis of magnetic zeolite. <i>Microporous and Mesoporous Materials</i> , 2018, 270, 24-29.	4.4	63
49	Novel Strategy for the Synthesis of Ultra-Stable Single-Site Mo-ZSM-5 Zeolite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19553-19560.	13.8	61
50	Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO <sub>2</sub> Capture. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23491-23495.	13.8	61
51	Formation of PdO on Au-Pd bimetallic catalysts and the effect on benzyl alcohol oxidation. <i>Journal of Catalysis</i> , 2019, 375, 32-43.	6.2	60
52	Reversing Titanium Oligomer Formation towards High-Efficiency and Green Synthesis of Titanium-Containing Molecular Sieves. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3443-3448.	13.8	58
53	Co <sub>3</sub> (HCOO) <sub>6</sub> Microporous Metal-Organic Framework Membrane for Separation of CO <sub>2</sub> /CH <sub>4</sub> Mixtures. <i>Chemistry - A European Journal</i> , 2011, 17, 12076-12083.	3.3	57
54	Direct Evidence for Single Molybdenum Atoms Incorporated in the Framework of MFI Zeolite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 8689-8693.	13.7	57

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55	Highly stable phosphine modified VOx/Al <sub>2</sub> O <sub>3</sub> catalyst in propane dehydrogenation. Applied Catalysis B: Environmental, 2020, 274, 119089.	20.2	57
56	Growth of silicalite-1 films on gold substrates. Microporous Materials, 1997, 11, 149-160.	1.6	56
57	Thin molecular sieve films on noble metal substrates. Zeolites, 1997, 18, 387-390.	0.5	55
58	Deposition of zeolite A on vegetal fibers. Zeolites, 1996, 16, 31-34.	0.5	54
59	Continuous films of zeolite ZSM-5 on modified gold surfaces. Chemical Communications, 1997, , 15-16.	4.1	54
60	Ordered Micro/Mesoporous Composite Prepared as Thin Films. Journal of Physical Chemistry B, 2005, 109, 4485-4491.	2.6	54
61	Synthesis of titanium silicate ETS-10: The effect of tetramethylammonium on the crystallization kinetics. Zeolites, 1994, 14, 697-700.	0.5	53
62	Colloidal Nanocrystals of Zeolite $\beta$ Stabilized in Alumina Matrix. Chemistry of Materials, 1999, 11, 2030-2037.	6.7	53
63	Interlayer stacking disorder in zeolite beta family: a Raman spectroscopic study. Physical Chemistry Chemical Physics, 2005, 7, 2756.	2.8	52
64	Defect-engineered zeolite porosity and accessibility. Journal of Materials Chemistry A, 2020, 8, 3621-3631.	10.3	52
65	Pure silica BETA colloidal zeolite assembled in thin films. Chemical Communications, 2003, , 326-327.	4.1	50
66	Closely Packed Zeolite Nanocrystals Obtained via Transformation of Porous Amorphous Silica. Chemistry of Materials, 2004, 16, 5452-5459.	6.7	50
67	Zeolite Nanoparticles for Selective Sorption of Plasma Proteins. Scientific Reports, 2015, 5, 17259.	3.3	50
68	Highly sensitive and selective acetone sensor based on three-dimensional ordered WO <sub>3</sub> /Au nanocomposite with enhanced performance. Sensors and Actuators B: Chemical, 2020, 320, 128405.	7.8	50
69	Deposition of continuous silicalite-1 films on inorganic fibers. Microporous Materials, 1997, 8, 93-101.	1.6	49
70	Porosity of micro/mesoporous composites. Microporous and Mesoporous Materials, 2006, 92, 154-160.	4.4	49
71	Silver confined within zeolite EMT nanoparticles: preparation and antibacterial properties. Nanoscale, 2014, 6, 10859-10864.	5.6	49
72	Structure-Directing Agent Governs the Location of Silanol Defects in Zeolites. Chemistry of Materials, 2015, 27, 7577-7579.	6.7	49

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73	Crystallization kinetics of zeolite ZSM-5. Zeolites, 1992, 12, 210-215.	0.5	48
74	Preparation of nanosized micro/mesoporous composites. Materials Science and Engineering C, 2003, 23, 1001-1005.	7.3	48
75	Synthesis of nanosized FAU-type zeolite. Studies in Surface Science and Catalysis, 1999, 125, 141-148.	1.5	47
76	Zeolite Nanoparticles Inhibit $\text{A}\beta$ -Fibrinogen Interaction and Formation of a Consequent Abnormal Structural Clot. ACS Applied Materials & Interfaces, 2016, 8, 30768-30779.	8.0	47
77	Scalable crystalline porous membranes: current state and perspectives. Chemical Society Reviews, 2021, 50, 1913-1944.	38.1	47
78	Facile and fast determination of Si/Al ratio of zeolites using FTIR spectroscopy technique. Microporous and Mesoporous Materials, 2021, 311, 110683.	4.4	47
79	ALPO-18 nanocrystals synthesized under microwave irradiation. Journal of Materials Chemistry, 2006, 16, 514-518.	6.7	46
80	Transformation of amorphous silica colloids to nanosized MEL zeolite. Microporous and Mesoporous Materials, 2001, 50, 121-128.	4.4	44
81	Quantitative moisture measurements in lubricating oils by FTIR spectroscopy combined with solvent extraction approach. Microchemical Journal, 2011, 98, 177-185.	4.5	44
82	Zeolites in a good shape: Catalyst forming by extrusion modifies their performances. Microporous and Mesoporous Materials, 2020, 299, 110114.	4.4	44
83	Photochemistry of 2-(2-Hydroxyphenyl)benzothiazole Encapsulated in Nanosized Zeolites. Journal of Physical Chemistry A, 2004, 108, 10640-10648.	2.5	43
84	A powerful structure-directing agent for the synthesis of nanosized Al- and high-silica zeolite Beta in alkaline medium. Microporous and Mesoporous Materials, 2011, 142, 17-25.	4.4	42
85	Hierarchical zeolites. MRS Bulletin, 2016, 41, 689-693.	3.5	42
86	Adhesivity of molecular sieve films on metal substrates. Zeolites, 1996, 17, 462-465.	0.5	41
87	Confined Detection of High-Energy-Density Materials. Journal of Physical Chemistry C, 2007, 111, 6694-6699.	3.1	41
88	Environmentally benign synthesis of nanosized aluminophosphate enhanced by microwave heating. Green Chemistry, 2008, 10, 1043.	9.0	41
89	Discrete MnALPO-5 nanocrystals synthesized by an ionothermal approach. Chemical Communications, 2009, , 1661.	4.1	41
90	Reactive oxygen species mediated DNA damage in human lung alveolar epithelial (A549) cells from exposure to non-cytotoxic MFI-type zeolite nanoparticles. Toxicology Letters, 2012, 215, 151-160.	0.8	41

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91	Corona protein composition and cytotoxicity evaluation of ultra-small zeolites synthesized from template free precursor suspensions. <i>Toxicology Research</i> , 2013, 2, 270.	2.1	41
92	Microwave synthesis of colloidal stable AlPO-5 nanocrystals with high water adsorption capacity and unique morphology. <i>Materials Letters</i> , 2014, 132, 126-129.	2.6	41
93	Effects of ultrasonic irradiation on crystallization and structural properties of EMT-type zeolite nanocrystals. <i>Materials Chemistry and Physics</i> , 2015, 159, 38-45.	4.0	40
94	Tribochemical activation of seeds for rapid crystallization of zeolite Y. <i>Zeolites</i> , 1995, 15, 193-197.	0.5	39
95	Influence of metal substrate properties on the kinetics of zeolite film formation. <i>Zeolites</i> , 1995, 15, 679-683.	0.5	39
96	Nanosized molecular sieves utilized as an environmentally friendly alternative to antioxidants for lubricant oils. <i>Green Chemistry</i> , 2011, 13, 2435.	9.0	39
97	In Situ Incorporation of 2-(2-Hydroxyphenyl)benzothiazole within FAU Colloidal Crystals. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1611-1614.	13.8	38
98	Nanosized Gismondine Grown in Colloidal Precursor Solutions. <i>Langmuir</i> , 2004, 20, 5271-5276.	3.5	38
99	Optical Properties of Photopolymer Layers Doped with Aluminophosphate Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16767-16775.	3.1	38
100	Vapor Responsive One-Dimensional Photonic Crystals from Zeolite Nanoparticles and Metal Oxide Films for Optical Sensing. <i>Sensors</i> , 2014, 14, 12207-12218.	3.8	38
101	AlPO <sub>4</sub> -18 Seed Layers and Films by Secondary Growth. <i>Chemistry of Materials</i> , 2008, 20, 5721-5726.	6.7	37
102	Micro- to Macroscopic Observations of MnAlPO <sub>5</sub> Nanocrystal Growth in Ionic Liquid Media. <i>Chemistry - A European Journal</i> , 2010, 16, 12890-12897.	3.3	37
103	Nanoparticle Alloy Formation by Radiolysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12573-12588.	3.1	37
104	Design of an intercalated Nano-MoS <sub>2</sub> hydrophobic catalyst with high rim sites to improve the hydrogenation selectivity in hydrodesulfurization reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119907.	20.2	37
105	Selective Capture of Water Using Microporous Adsorbents To Increase the Lifetime of Lubricants. <i>ChemSusChem</i> , 2009, 2, 255-260.	6.8	34
106	Hybrid Sensors Fabricated by Inkjet Printing and Holographic Patterning. <i>Chemistry of Materials</i> , 2015, 27, 6097-6101.	6.7	34
107	CO <sub>2</sub> Adsorption/Desorption in FAU Zeolite Nanocrystals: In Situ Synchrotron X-ray Powder Diffraction and in Situ Fourier Transform Infrared Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2361-2369.	3.1	34
108	Colloidal Zeolites as Host Matrix for Copper Nanoclusters. <i>Chemistry of Materials</i> , 2006, 18, 3373-3380.	6.7	33

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109	Complex H-bonded silanol network in zeolites revealed by IR and NMR spectroscopy combined with DFT calculations. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27347-27352.	10.3	33
110	Ionothermal approach for synthesizing AlPO-5 with hexagonal thin-plate morphology influenced by various parameters at ambient pressure. <i>Solid State Sciences</i> , 2013, 25, 63-69.	3.2	32
111	Sodalite cages of EMT zeolite confined neutral molecular-like silver clusters. <i>Microporous and Mesoporous Materials</i> , 2017, 244, 74-82.	4.4	32
112	K-F zeolite nanocrystals synthesized from organic-template-free precursor mixture. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 105-110.	4.4	32
113	Elucidation of Pt Clusters in the Micropores of Zeolite Nanoparticles Assembled in Thin Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20974-20982.	3.1	31
114	Cold plasma as environmentally benign approach for activation of zeolite nanocrystals. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 148-154.	4.4	31
115	Beta-MCM-41 micro-mesoporous catalysts in the hydroisomerization of n-heptane: Definition of an indexed isomerization factor as a performance descriptor. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 17-28.	4.4	31
116	Flexible Template-Free RHO Nanosized Zeolite for Selective CO <sub>2</sub> Adsorption. <i>Chemistry of Materials</i> , 2020, 32, 5985-5993.	6.7	31
117	Cross-Linking between Sodalite Nanoparticles and Graphene Oxide in Composite Membranes to Trigger High Gas Permeance, Selectivity, and Stability in Hydrogen Separation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6284-6288.	13.8	31
118	Silicalite-1/polymer films with low-k dielectric constants. <i>Applied Surface Science</i> , 2004, 226, 155-160.	6.1	30
119	The Mosaic Structure of Zeolite Crystals. <i>Angewandte Chemie</i> , 2016, 128, 15273-15276.	2.0	30
120	Probing the Brønsted Acidity of the External Surface of Faujasite-Type Zeolites. <i>ChemPhysChem</i> , 2020, 21, 1873-1881.	2.1	30
121	Perovskite-Type LaCoO <sub>3</sub> as an Efficient and Green Catalyst for Sustainable Partial Oxidation of Cyclohexane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 21322-21332.	3.7	29
122	The challenge of silanol species characterization in zeolites. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1125-1133.	6.0	29
123	Label-free electrochemical immunosensor based on conductive Ag contained EMT-style nano-zeolites and the application for $\alpha$ -fetoprotein detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2919-2926.	7.8	28
124	Zeolite nanoparticles as effective antioxidant additive for the preservation of palm oil-based lubricant. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 58, 565-571.	5.3	27
125	Spray-dispersion of ultra-small EMT zeolite crystals in thin-film composite membrane for high-permeability nanofiltration process. <i>Journal of Membrane Science</i> , 2021, 622, 119045.	8.2	27
126	Self-processing photopolymer materials for versatile design and fabrication of holographic sensors and interactive holograms. <i>Applied Optics</i> , 2018, 57, E173.	1.8	26



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127	Unraveling the Diffusion Properties of Zeolite-Based Multicomponent Catalyst by Combined Gravimetric Analysis and IR Spectroscopy (AGIR). ACS Catalysis, 2020, 10, 6822-6830.	11.2	26
128	Investigation of the ion-exchanged forms of the microporous titanosilicate K <sub>2</sub> TiSi <sub>3</sub> O <sub>9</sub> ·H <sub>2</sub> O. Microporous and Mesoporous Materials, 1999, 32, 287-296.	4.4	25
129	Synthesis of colloidal AlPO <sub>4</sub> -18 crystals and their use for supported film growth. Journal of Materials Chemistry, 2003, 13, 1526.	6.7	25
130	Advanced applications of zeolites. Studies in Surface Science and Catalysis, 2005, , 263-288.	1.5	25
131	<title>Holographic recording in nanoparticle-doped photopolymer</title>. , 2006, , .		25
132	Beads Comprising a Hierarchical Porous Core and a Microporous Shell. Journal of Physical Chemistry C, 2007, 111, 4535-4542.	3.1	25
133	Formation of colloidal molecular sieves: influence of silica precursor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 217, 153-157.	4.7	24
134	Nanosized Zeolites Templated by Metal-amine Complexes. Chemistry of Materials, 2007, 19, 1203-1205.	6.7	24
135	High-Silica Zeolite-12: From Stable Colloidal Suspensions to Thin Films. Journal of Physical Chemistry C, 2008, 112, 14274-14280.	3.1	24
136	Optical properties of photopolymerizable nanocomposites containing nanosized molecular sieves. Journal of Optics (United Kingdom), 2011, 13, 044019.	2.2	24
137	Comparison of physicochemical properties of zorite and ETS-4. Materials Research Bulletin, 1996, 31, 163-169.	5.2	23
138	Nanozeolites doped photopolymer layers with reduced shrinkage. Optics Express, 2011, 19, 25786.	3.4	23
139	Self-assembled titanosilicate TS-1 nanocrystals in hierarchical structures. Catalysis Today, 2011, 168, 112-117.	4.4	23
140	Green Hydrogen Separation from Nitrogen by Mixed-matrix Membranes Consisting of Nanosized Sodalite Crystals. ChemSusChem, 2019, 12, 4529-4537.	6.8	23
141	Understanding the Fundamentals of Microporosity Upgrading in Zeolites: Increasing Diffusion and Catalytic Performances. Advanced Science, 2021, 8, e2100001.	11.2	23
142	Preparation of HKUST-1/PEI mixed-matrix membranes: Adsorption-diffusion coupling control of small gas molecules. Journal of Membrane Science, 2022, 643, 120070.	8.2	23
143	Stable Mesostructured Silicate Films Containing Nanosized Zeolite. Chemistry of Materials, 2003, 15, 2240-2246.	6.7	22
144	Micro/Mesoporous Composites. Studies in Surface Science and Catalysis, 2007, 168, 301-VI.	1.5	22

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145	Ethanol Recovery from Water Using Silicalite-1 Membrane: An Operando Infrared Spectroscopic Study. ChemPlusChem, 2012, 77, 437-444.	2.8	22
146	3D Study of the Morphology and Dynamics of Zeolite Nucleation. Chemistry - A European Journal, 2015, 21, 18316-18327.	3.3	22
147	Control of Na-EMT Zeolite Synthesis by Organic Additives. Crystal Growth and Design, 2015, 15, 1898-1906.	3.0	22
148	Synthesis of Cs-ABW nanozeolite in organotemplate-free system. Microporous and Mesoporous Materials, 2019, 277, 78-83.	4.4	22
149	Alkali Metal Cations Influence the CO <sub>2</sub> Adsorption Capacity of Nanosized Chabazite: Modeling vs Experiment. ACS Applied Nano Materials, 2022, 5, 5578-5588.	5.0	22
150	Characterization of water in microporous titanium silicates. Journal of Materials Science Letters, 1997, 16, 1303-1304.	0.5	21
151	Nanoscale crystal orientation in silicalite-1 films studied by grazing incidence X-ray diffraction. Microporous and Mesoporous Materials, 2001, 43, 191-200.	4.4	21
152	Crystallization of nanosized MEL-type zeolite from colloidal precursors. Materials Science and Engineering C, 2002, 19, 111-114.	7.3	21
153	Nanosized Molecular Sieves. Collection of Czechoslovak Chemical Communications, 2003, 68, 2032-2054.	1.0	21
154	Molecular interaction of fibrinogen with zeolite nanoparticles. Scientific Reports, 2019, 9, 1558.	3.3	21
155	Emphasis on the Properties of Metal-Containing Zeolites Operating Outside the Comfort Zone of Current Heterogeneous Catalytic Reactions. Angewandte Chemie - International Edition, 2020, 59, 19414-19432.	13.8	21
156	Highly active Pd containing EMT zeolite catalyst for indirect oxidative carbonylation of methanol to dimethyl carbonate. Journal of Energy Chemistry, 2021, 52, 191-201.	12.9	21
157	The inner heterogeneity of ZSM-5 zeolite crystals. Journal of Materials Chemistry A, 2021, 9, 4203-4212.	10.3	21
158	Functionalized cubic mesostructured silica films. Materials Science and Engineering C, 2003, 23, 827-831.	7.3	20
159	Nondestructive Identification of Colloidal Molecular Sieves Stabilized in Water. Journal of Physical Chemistry B, 2005, 109, 17060-17065.	2.6	20
160	High-yield nanosized (Si)AlPO-41 using ethanol polarity equalization and co-templating synthesis approach. Nanoscale, 2015, 7, 5787-5793.	5.6	20
161	Thermal resonant zeolite-based gas sensor. Sensors and Actuators B: Chemical, 2017, 245, 179-182.	7.8	20
162	Synergy between a sulfur-tolerant Pt/Al <sub>2</sub> O <sub>3</sub> @sodalite core-shell catalyst and a CoMo/Al <sub>2</sub> O <sub>3</sub> catalyst. Journal of Catalysis, 2018, 368, 89-97.	6.2	20

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163	Strategy towards enhanced performance of zeolite catalysts: Raising effective diffusion coefficient versus reducing diffusion length. Chemical Engineering Journal, 2020, 385, 123800.	12.7	20
164	AlPO <sub>4</sub> -18 synthesized from colloidal precursors and its use for the preparation of thin films. Applied Surface Science, 2004, 226, 1-6.	6.1	19
165	High-Density Energetic Material Hosted in Pure Silica MFI-Type Zeolite Nanocrystals. Advanced Materials, 2006, 18, 2440-2443.	21.0	19
166	Investigation of the light induced redistribution of zeolite Beta nanoparticles in an acrylamide-based photopolymer. Journal of Optics, 2009, 11, 024016.	1.5	19
167	Zeolite films as building blocks for antireflective coatings and vapor responsive Bragg stacks. Dalton Transactions, 2014, 43, 8868-8876.	3.3	19
168	Microwave-green synthesis of AlPO <sub>n</sub> and SAPO <sub>n</sub> (n = 5 and 18) nanosized crystals and their assembly in layers. Microporous and Mesoporous Materials, 2019, 280, 256-263.	4.4	19
169	Influence of reactive radicals in cellulose fibres on the formation of zeolite coatings. Journal of the Chemical Society Chemical Communications, 1994, , 2087.	2.0	18
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