

Svetlana Mintova

List of Publications by Year in descending order

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papers

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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.	6.0	593
2	Gas sensing using porous materials for automotive applications. <i>Chemical Society Reviews</i> , 2015, 44, 4290-4321.	18.7	406
3	Nanoporous materials with enhanced hydrophilicity and high water sorption capacity. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 1-26.	2.2	388
4	Tailored crystalline microporous materials by post-synthesis modification. <i>Chemical Society Reviews</i> , 2013, 42, 263-290.	18.7	388
5	Template-free nanosized faujasite-type zeolites. <i>Nature Materials</i> , 2015, 14, 447-451.	13.3	360
6	Perspectives of Micro/Mesoporous Composites in Catalysis. <i>Catalysis Reviews - Science and Engineering</i> , 2007, 49, 457-509.	5.7	350
7	Advances in nanosized zeolites. <i>Nanoscale</i> , 2013, 5, 6693.	2.8	337
8	Nanosized microporous crystals: emerging applications. <i>Chemical Society Reviews</i> , 2015, 44, 7207-7233.	18.7	291
9	Capturing Ultrasmall EMT Zeolite from Template-Free Systems. <i>Science</i> , 2012, 335, 70-73.	6.0	260
10	Seed-Induced Crystallization of Nanosized Na-ZSM-5 Crystals. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7084-7091.	1.8	225
11	Electron Microscopy Reveals the Nucleation Mechanism of Zeolite Y from Precursor Colloids. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3201-3204.	7.2	213
12	Hydrogen positions in single nanocrystals revealed by electron diffraction. <i>Science</i> , 2017, 355, 166-169.	6.0	203
13	Variation of the Si/Al ratio in nanosized zeolite Beta crystals. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 237-245.	2.2	197
14	Mechanism of zeolites crystal growth: new findings and open questions. <i>CrystEngComm</i> , 2016, 18, 650-664.	1.3	168
15	Al-Rich Zeolite Beta by Seeding in the Absence of Organic Template. <i>Chemistry of Materials</i> , 2009, 21, 4184-4191.	3.2	167
16	Microporous Films Prepared by Spin-Coating Stable Colloidal Suspensions of Zeolites. <i>Advanced Materials</i> , 2001, 13, 1880.	11.1	160
17	Nanosized zeolite films for vapor-sensing applications. <i>Microporous and Mesoporous Materials</i> , 2001, 50, 159-166.	2.2	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.	2.2	143

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19	Progress in zeolite synthesis promotes advanced applications. <i>Microporous and Mesoporous Materials</i> , 2014, 189, 11-21.	2.2	142
20	Controlling the preferred orientation in silicalite-1 films synthesized by seeding. <i>Microporous and Mesoporous Materials</i> , 1999, 28, 185-194.	2.2	140
21	Humidity Sensing with Ultrathin LTA-Type Molecular Sieve Films Grown on Piezoelectric Devices. <i>Chemistry of Materials</i> , 2001, 13, 901-905.	3.2	137
22	One-pot synthesis of silanol-free nanosized MFI Zeolite. <i>Nature Materials</i> , 2017, 16, 1010-1015.	13.3	135
23	Nanosized AlPO ₄ -5 Molecular Sieves and Ultrathin Films Prepared by Microwave Synthesis. <i>Chemistry of Materials</i> , 1998, 10, 4030-4036.	3.2	131
24	Layer-by-layer preparation of zeolite coatings of nanosized crystals. <i>Microporous and Mesoporous Materials</i> , 2001, 43, 41-49.	2.2	130
25	Nanosized SAPO-34 Synthesized from Colloidal Solutions. <i>Chemistry of Materials</i> , 2008, 20, 2956-2963.	3.2	127
26	Opening the Cages of Faujasite-Type Zeolite. <i>Journal of the American Chemical Society</i> , 2017, 139, 17273-17276.	6.6	125
27	Mechanism of the Transformation of Silica Precursor Solutions into Si-MFI Zeolite. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2558-2561.	7.2	120
28	Effect of the silica source on the formation of nanosized silicalite-1: an in situ dynamic light scattering study. <i>Microporous and Mesoporous Materials</i> , 2002, 55, 171-179.	2.2	113
29	Diffusion and catalyst efficiency in hierarchical zeolite catalysts. <i>National Science Review</i> , 2020, 7, 1726-1742.	4.6	104
30	Silanol defect engineering and healing in zeolites: opportunities to fine-tune their properties and performances. <i>Chemical Society Reviews</i> , 2021, 50, 11156-11179.	18.7	100
31	Preparation and characterization of hollow fibers of silicalite-1. <i>Zeolites</i> , 1996, 17, 408-415.	0.9	99
32	Environmental syntheses of nanosized zeolites with high yield and monomodal particle size distribution. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 405-412.	2.2	89
33	The Mosaic Structure of Zeolite Crystals. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15049-15052.	7.2	88
34	Nanosized zeolites: Quo Vadis?. <i>Comptes Rendus Chimie</i> , 2016, 19, 183-191.	0.2	86
35	Zeolite Beta nanosized assemblies. <i>Microporous and Mesoporous Materials</i> , 2005, 80, 227-235.	2.2	85
36	Fluid catalytic cracking technology: current status and recent discoveries on catalyst contamination. <i>Catalysis Reviews - Science and Engineering</i> , 2019, 61, 333-405.	5.7	84

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37	Photochemical Preparation of Silver Nanoparticles Supported on Zeolite Crystals. <i>Langmuir</i> , 2014, 30, 6250-6256.	1.6	78
38	EMT-type zeolite nanocrystals synthesized from rice husk. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 204-209.	2.2	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.	11.1	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.	0.9	70
43	Vibrational spectra of ETS-4 and ETS-10. <i>Zeolites</i> , 1996, 16, 22-24.	0.9	70
44	Catalytic activity of micro/mesoporous composites in toluene alkylation with propylene. <i>Applied Catalysis A: General</i> , 2005, 281, 85-91.	2.2	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.	3.2	68
46	Kinetics of water adsorption in microporous aluminophosphate layers for regenerative heat exchangers. <i>Applied Thermal Engineering</i> , 2009, 29, 1514-1522.	3.0	65
47	Title is missing!. <i>Journal of Porous Materials</i> , 2001, 8, 13-22.	1.3	64
48	Red mud as aluminium source for the synthesis of magnetic zeolite. <i>Microporous and Mesoporous Materials</i> , 2018, 270, 24-29.	2.2	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.	7.2	61
50	Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO ₂ Capture. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23491-23495.	7.2	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.	3.1	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.	7.2	58
53	Co ₃ (HCOO) ₆ Microporous Metal-Organic Framework Membrane for Separation of CO ₂ /CH ₄ Mixtures. <i>Chemistry - A European Journal</i> , 2011, 17, 12076-12083.	1.7	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.	6.6	57

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55	Highly stable phosphine modified VO _x /Al ₂ O ₃ catalyst in propane dehydrogenation. Applied Catalysis B: Environmental, 2020, 274, 119089.	10.8	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.	0.9	55
58	Deposition of zeolite A on vegetal fibers. Zeolites, 1996, 16, 31-34.	0.9	54
59	Continuous films of zeolite ZSM-5 on modified gold surfaces. Chemical Communications, 1997, , 15-16.	2.2	54
60	Ordered Micro/Mesoporous Composite Prepared as Thin Films. Journal of Physical Chemistry B, 2005, 109, 4485-4491.	1.2	54
61	Synthesis of titanium silicate ETS-10: The effect of tetramethylammonium on the crystallization kinetics. Zeolites, 1994, 14, 697-700.	0.9	53
62	Colloidal Nanocrystals of Zeolite β Stabilized in Alumina Matrix. Chemistry of Materials, 1999, 11, 2030-2037.	3.2	53
63	Interlayer stacking disorder in zeolite beta family: a Raman spectroscopic study. Physical Chemistry Chemical Physics, 2005, 7, 2756.	1.3	52
64	Defect-engineered zeolite porosity and accessibility. Journal of Materials Chemistry A, 2020, 8, 3621-3631.	5.2	52
65	Pure silica BETA colloidal zeolite assembled in thin films. Chemical Communications, 2003, , 326-327.	2.2	50
66	Closely Packed Zeolite Nanocrystals Obtained via Transformation of Porous Amorphous Silica. Chemistry of Materials, 2004, 16, 5452-5459.	3.2	50
67	Zeolite Nanoparticles for Selective Sorption of Plasma Proteins. Scientific Reports, 2015, 5, 17259.	1.6	50
68	Highly sensitive and selective acetone sensor based on three-dimensional ordered WO ₃ /Au nanocomposite with enhanced performance. Sensors and Actuators B: Chemical, 2020, 320, 128405.	4.0	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.	2.2	49
71	Silver confined within zeolite EMT nanoparticles: preparation and antibacterial properties. Nanoscale, 2014, 6, 10859-10864.	2.8	49
72	Structure-Directing Agent Governs the Location of Silanol Defects in Zeolites. Chemistry of Materials, 2015, 27, 7577-7579.	3.2	49

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73	Crystallization kinetics of zeolite ZSM-5. <i>Zeolites</i> , 1992, 12, 210-215.	0.9	48
74	Preparation of nanosized micro/mesoporous composites. <i>Materials Science and Engineering C</i> , 2003, 23, 1001-1005.	3.8	48
75	Synthesis of nanosized FAU-type zeolite. <i>Studies in Surface Science and Catalysis</i> , 1999, 125, 141-148.	1.5	47
76	Zeolite Nanoparticles Inhibit Al^{2+} Fibrinogen Interaction and Formation of a Consequent Abnormal Structural Clot. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30768-30779.	4.0	47
77	Scalable crystalline porous membranes: current state and perspectives. <i>Chemical Society Reviews</i> , 2021, 50, 1913-1944.	18.7	47
78	Facile and fast determination of Si/Al ratio of zeolites using FTIR spectroscopy technique. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110683.	2.2	47
79	ALPO-18 nanocrystals synthesized under microwave irradiation. <i>Journal of Materials Chemistry</i> , 2006, 16, 514-518.	6.7	46
80	Transformation of amorphous silica colloids to nanosized MEL zeolite. <i>Microporous and Mesoporous Materials</i> , 2001, 50, 121-128.	2.2	44
81	Quantitative moisture measurements in lubricating oils by FTIR spectroscopy combined with solvent extraction approach. <i>Microchemical Journal</i> , 2011, 98, 177-185.	2.3	44
82	Zeolites in a good shape: Catalyst forming by extrusion modifies their performances. <i>Microporous and Mesoporous Materials</i> , 2020, 299, 110114.	2.2	44
83	Photochemistry of 2-(2-Hydroxyphenyl)benzothiazole Encapsulated in Nanosized Zeolites. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10640-10648.	1.1	43
84	A powerful structure-directing agent for the synthesis of nanosized Al- and high-silica zeolite Beta in alkaline medium. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 17-25.	2.2	42
85	Hierarchical zeolites. <i>MRS Bulletin</i> , 2016, 41, 689-693.	1.7	42
86	Adhesivity of molecular sieve films on metal substrates. <i>Zeolites</i> , 1996, 17, 462-465.	0.9	41
87	Confined Detection of High-Energy-Density Materials. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6694-6699.	1.5	41
88	Environmentally benign synthesis of nanosized aluminophosphate enhanced by microwave heating. <i>Green Chemistry</i> , 2008, 10, 1043.	4.6	41
89	Discrete MnALPO-5 nanocrystals synthesized by an ionothermal approach. <i>Chemical Communications</i> , 2009, , 1661.	2.2	41
90	Reactive oxygen species mediated DNA damage in human lung alveolar epithelial (A549) cells from exposure to non-cytotoxic MFI-type zeolite nanoparticles. <i>Toxicology Letters</i> , 2012, 215, 151-160.	0.4	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.	0.9	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.	1.3	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.	2.0	40
94	Tribochemical activation of seeds for rapid crystallization of zeolite Y. <i>Zeolites</i> , 1995, 15, 193-197.	0.9	39
95	Influence of metal substrate properties on the kinetics of zeolite film formation. <i>Zeolites</i> , 1995, 15, 679-683.	0.9	39
96	Nanosized molecular sieves utilized as an environmentally friendly alternative to antioxidants for lubricant oils. <i>Green Chemistry</i> , 2011, 13, 2435.	4.6	39
97	In Situ Incorporation of 2-(2-Hydroxyphenyl)benzothiazole within FAU Colloidal Crystals. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1611-1614.	7.2	38
98	Nanosized Gismondine Grown in Colloidal Precursor Solutions. <i>Langmuir</i> , 2004, 20, 5271-5276.	1.6	38
99	Optical Properties of Photopolymer Layers Doped with Aluminophosphate Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16767-16775.	1.5	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.	2.1	38
101	AlPO ₄ -18 Seed Layers and Films by Secondary Growth. <i>Chemistry of Materials</i> , 2008, 20, 5721-5726.	3.2	37
102	Micro- to Macroscopic Observations of MnAlPO ₅ Nanocrystal Growth in Ionic Liquid Media. <i>Chemistry - A European Journal</i> , 2010, 16, 12890-12897.	1.7	37
103	Nanoparticle Alloy Formation by Radiolysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12573-12588.	1.5	37
104	Design of an intercalated Nano-MoS ₂ hydrophobic catalyst with high rim sites to improve the hydrogenation selectivity in hydrodesulfurization reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119907.	10.8	37
105	Selective Capture of Water Using Microporous Adsorbents To Increase the Lifetime of Lubricants. <i>ChemSusChem</i> , 2009, 2, 255-260.	3.6	34
106	Hybrid Sensors Fabricated by Inkjet Printing and Holographic Patterning. <i>Chemistry of Materials</i> , 2015, 27, 6097-6101.	3.2	34
107	CO ₂ 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.	1.5	34
108	Colloidal Zeolites as Host Matrix for Copper Nanoclusters. <i>Chemistry of Materials</i> , 2006, 18, 3373-3380.	3.2	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.	5.2	33
110	lonothermal 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.	1.5	32
111	Sodalite cages of EMT zeolite confined neutral molecular-like silver clusters. <i>Microporous and Mesoporous Materials</i> , 2017, 244, 74-82.	2.2	32
112	K-F zeolite nanocrystals synthesized from organic-template-free precursor mixture. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 105-110.	2.2	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.	1.5	31
114	Cold plasma as environmentally benign approach for activation of zeolite nanocrystals. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 148-154.	2.2	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.	2.2	31
116	Flexible Template-Free RHO Nanosized Zeolite for Selective CO ₂ Adsorption. <i>Chemistry of Materials</i> , 2020, 32, 5985-5993.	3.2	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.	7.2	31
118	Silicalite-1/polymer films with low-k dielectric constants. <i>Applied Surface Science</i> , 2004, 226, 155-160.	3.1	30
119	The Mosaic Structure of Zeolite Crystals. <i>Angewandte Chemie</i> , 2016, 128, 15273-15276.	1.6	30
120	Probing the Brønsted Acidity of the External Surface of Faujasite-Type Zeolites. <i>ChemPhysChem</i> , 2020, 21, 1873-1881.	1.0	30
121	Perovskite-Type LaCoO ₃ as an Efficient and Green Catalyst for Sustainable Partial Oxidation of Cyclohexane. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21322-21332.	1.8	29
122	The challenge of silanol species characterization in zeolites. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1125-1133.	3.0	29
123	Label-free electrochemical immunosensor based on conductive Ag contained EMT-style nano-zeolites and the application for α -fetoprotein detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2919-2926.	4.0	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.	2.7	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.	4.1	27
126	Self-processing photopolymer materials for versatile design and fabrication of holographic sensors and interactive holograms. <i>Applied Optics</i> , 2018, 57, E173.	0.9	26

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127	Unraveling the Diffusion Properties of Zeolite-Based Multicomponent Catalyst by Combined Gravimetric Analysis and IR Spectroscopy (AGIR). <i>ACS Catalysis</i> , 2020, 10, 6822-6830.	5.5	26
128	Investigation of the ion-exchanged forms of the microporous titanosilicate K ₂ TiSi ₃ O ₉ ·H ₂ O. <i>Microporous and Mesoporous Materials</i> , 1999, 32, 287-296.	2.2	25
129	Synthesis of colloidal AlPO ₄ -18 crystals and their use for supported film growth. <i>Journal of Materials Chemistry</i> , 2003, 13, 1526.	6.7	25
130	Advanced applications of zeolites. <i>Studies in Surface Science and Catalysis</i> , 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. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4535-4542.	1.5	25
133	Formation of colloidal molecular sieves: influence of silica precursor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 217, 153-157.	2.3	24
134	Nanosized Zeolites Templated by Metal–Amine Complexes. <i>Chemistry of Materials</i> , 2007, 19, 1203-1205.	3.2	24
135	High-Silica Zeolite- β : From Stable Colloidal Suspensions to Thin Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14274-14280.	1.5	24
136	Optical properties of photopolymerizable nanocomposites containing nanosized molecular sieves. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044019.	1.0	24
137	Comparison of physicochemical properties of zorite and ETS-4. <i>Materials Research Bulletin</i> , 1996, 31, 163-169.	2.7	23
138	Nanozeolites doped photopolymer layers with reduced shrinkage. <i>Optics Express</i> , 2011, 19, 25786.	1.7	23
139	Self-assembled titanosilicate TS-1 nanocrystals in hierarchical structures. <i>Catalysis Today</i> , 2011, 168, 112-117.	2.2	23
140	Green Hydrogen Separation from Nitrogen by Mixed–Matrix Membranes Consisting of Nanosized Sodalite Crystals. <i>ChemSusChem</i> , 2019, 12, 4529-4537.	3.6	23
141	Understanding the Fundamentals of Microporosity Upgrading in Zeolites: Increasing Diffusion and Catalytic Performances. <i>Advanced Science</i> , 2021, 8, e2100001.	5.6	23
142	Preparation of HKUST-1/PEI mixed-matrix membranes: Adsorption-diffusion coupling control of small gas molecules. <i>Journal of Membrane Science</i> , 2022, 643, 120070.	4.1	23
143	Stable Mesostructured Silicate Films Containing Nanosized Zeolite. <i>Chemistry of Materials</i> , 2003, 15, 2240-2246.	3.2	22
144	Micro/Mesoporous Composites. <i>Studies in Surface Science and Catalysis</i> , 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. <i>ChemPlusChem</i> , 2012, 77, 437-444.	1.3	22
146	3D Study of the Morphology and Dynamics of Zeolite Nucleation. <i>Chemistry - A European Journal</i> , 2015, 21, 18316-18327.	1.7	22
147	Control of Na-EMT Zeolite Synthesis by Organic Additives. <i>Crystal Growth and Design</i> , 2015, 15, 1898-1906.	1.4	22
148	Synthesis of Cs-ABW nanozeolite in organotemplate-free system. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 78-83.	2.2	22
149	Alkali Metal Cations Influence the CO ₂ Adsorption Capacity of Nanosized Chabazite: Modeling vs Experiment. <i>ACS Applied Nano Materials</i> , 2022, 5, 5578-5588.	2.4	22
150	Characterization of water in microporous titanium silicates. <i>Journal of Materials Science Letters</i> , 1997, 16, 1303-1304.	0.5	21
151	Nanoscale crystal orientation in silicalite-1 films studied by grazing incidence X-ray diffraction. <i>Microporous and Mesoporous Materials</i> , 2001, 43, 191-200.	2.2	21
152	Crystallization of nanosized MEL-type zeolite from colloidal precursors. <i>Materials Science and Engineering C</i> , 2002, 19, 111-114.	3.8	21
153	Nanosized Molecular Sieves. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 2032-2054.	1.0	21
154	Molecular interaction of fibrinogen with zeolite nanoparticles. <i>Scientific Reports</i> , 2019, 9, 1558.	1.6	21
155	Emphasis on the Properties of Metal-Containing Zeolites Operating Outside the Comfort Zone of Current Heterogeneous Catalytic Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19414-19432.	7.2	21
156	Highly active Pd containing EMT zeolite catalyst for indirect oxidative carbonylation of methanol to dimethyl carbonate. <i>Journal of Energy Chemistry</i> , 2021, 52, 191-201.	7.1	21
157	The inner heterogeneity of ZSM-5 zeolite crystals. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4203-4212.	5.2	21
158	Functionalized cubic mesostructured silica films. <i>Materials Science and Engineering C</i> , 2003, 23, 827-831.	3.8	20
159	Nondestructive Identification of Colloidal Molecular Sieves Stabilized in Water. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17060-17065.	1.2	20
160	High-yield nanosized (Si)AlPO-41 using ethanol polarity equalization and co-templating synthesis approach. <i>Nanoscale</i> , 2015, 7, 5787-5793.	2.8	20
161	Thermal resonant zeolite-based gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 179-182.	4.0	20
162	Synergy between a sulfur-tolerant Pt/Al ₂ O ₃ @sodalite core-shell catalyst and a CoMo/Al ₂ O ₃ catalyst. <i>Journal of Catalysis</i> , 2018, 368, 89-97.	3.1	20

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