

Tatsuya Okubo

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261
papers

7,716
citations

46
h-index

75
g-index

272
ext. papers

8,555
ext. citations

6
avg. IF

6
L-index

#	Paper	IF	Citations
261	Periodic arrangement of silica nanospheres assisted by amino acids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13664-5	16.4	358
260	Densification of nanostructured titania assisted by a phase transformation. <i>Nature</i> , 1992 , 358, 48-51	50.4	292
259	A working hypothesis for broadening framework types of zeolites in seed-assisted synthesis without organic structure-directing agent. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11542-9	16.4	226
258	Crystallization Behavior of Zeolite Beta in OSDA-Free, Seed-Assisted Synthesis. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 744-750	3.8	153
257	Mechanism of Formation of Uniform-Sized Silica Nanospheres Catalyzed by Basic Amino Acids. <i>Chemistry of Materials</i> , 2009 , 21, 3719-3729	9.6	145
256	Critical factors in the seed-assisted synthesis of zeolite beta and "green beta" from OSDA-free Na ⁺ -aluminosilicate gels. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 2182-91	4.5	141
255	High Efficiency Near-IR Emission of Nd(III) Based on Low-Vibrational Environment in Cages of Nanosized Zeolites. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8583-8584	16.4	136
254	Progress in seed-assisted synthesis of zeolites without using organic structure-directing agents. <i>Microporous and Mesoporous Materials</i> , 2014 , 189, 22-30	5.3	131
253	Mesoporous Silica Nanoparticles with Remarkable Stability and Dispersibility for Antireflective Coatings. <i>Chemistry of Materials</i> , 2010 , 22, 12-14	9.6	128
252	Morphology and chemical state of Co/Mo catalysts for growth of single-walled carbon nanotubes vertically aligned on quartz substrates. <i>Journal of Catalysis</i> , 2004 , 225, 230-239	7.3	124
251	Aluminosilicate Species in the Hydrogel Phase Formed during the Aging Process for the Crystallization of FAU Zeolite. <i>Chemistry of Materials</i> , 2003 , 15, 2661-2667	9.6	118
250	Overview of Nanoparticle Array Formation by Wet Coating. <i>Journal of Nanoparticle Research</i> , 2003 , 5, 5-15	2.3	116
249	Formation of hierarchically organized zeolites by sequential intergrowth. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3355-9	16.4	112
248	Structure-Directing Behaviors of Tetraethylammonium Cations toward Zeolite Beta Revealed by the Evolution of Aluminosilicate Species Formed during the Crystallization Process. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14533-44	16.4	111
247	Preparation of Supported Mesoporous Silica Layers in a Continuous Flow Cell. <i>Chemistry of Materials</i> , 1997 , 9, 1505-1507	9.6	110
246	Porous siloxane-organic hybrid with ultrahigh surface area through simultaneous polymerization-destruction of functionalized cubic siloxane cages. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13832-5	16.4	105
245	Organic-inorganic mesoporous nanocarriers integrated with biogenic ligands. <i>Small</i> , 2007 , 3, 1740-4	11	104

244	Widening Synthesis Bottlenecks: Realization of Ultrafast and Continuous-Flow Synthesis of High-Silica Zeolite SSZ-13 for NO _x Removal. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5683-7	16.4	96
243	Seed-assisted, OSDA-free synthesis of MTW-type zeolite and Green MTW from sodium aluminosilicate gel systems. <i>Microporous and Mesoporous Materials</i> , 2012 , 147, 149-156	5.3	90
242	Photoinduced Bending of Self-Assembled Azobenzene-Siloxane Hybrid. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15434-40	16.4	88
241	Silica sodalite without occluded organic matters by topotactic conversion of lamellar precursor. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15780-1	16.4	88
240	Hybrid porous materials with high surface area derived from bromophenylethenyl-functionalized cubic siloxane-based building units. <i>Chemistry - A European Journal</i> , 2010 , 16, 6006-14	4.8	87
239	Two-phase synthesis of monodisperse silica nanospheres with amines or ammonia catalyst and their controlled self-assembly. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1538-44	9.5	86
238	ZrO ₂ promoted with sulfate, iron and manganese: a solid superacid catalyst capable of low temperature n-butane isomerization. <i>Catalysis Letters</i> , 1994 , 25, 21-28	2.8	86
237	A new approach to the determination of atomic-architecture of amorphous zeolite precursors by high-energy X-ray diffraction technique. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 224-7	3.6	81
236	In situ Small-Angle and Wide-Angle X-ray Scattering Investigation on Nucleation and Crystal Growth of Nanosized Zeolite A. <i>Chemistry of Materials</i> , 2007 , 19, 1906-1917	9.6	80
235	Microporous Hybrid Polymer with a Certain Crystallinity Built from Functionalized Cubic Siloxane Cages as a Singular Building Unit. <i>Chemistry of Materials</i> , 2010 , 22, 4841-4843	9.6	77
234	Gas sensing with zeolite-coated quartz crystal microbalances principal component analysis approach. <i>Sensors and Actuators B: Chemical</i> , 2002 , 86, 26-33	8.5	66
233	Synthesis of MTW-type Zeolites in the Absence of Organic Structure-directing Agent. <i>Chemistry Letters</i> , 2010 , 39, 730-731	1.7	61
232	Hydrothermal Synthesis and Characterization of Zeolites. <i>Chemistry Letters</i> , 2005 , 34, 276-281	1.7	60
231	Effective Fabrication of Catalysts from Large-Pore, Multidimensional Zeolites Synthesized without Using Organic Structure-Directing Agents. <i>Chemistry of Materials</i> , 2014 , 26, 1250-1259	9.6	59
230	OSDA-free synthesis of MTW-type zeolite from sodium aluminosilicate gels with zeolite beta seeds. <i>Microporous and Mesoporous Materials</i> , 2012 , 163, 282-290	5.3	59
229	Energy Analysis of Aluminosilicate Zeolites with Comprehensive Ranges of Framework Topologies, Chemical Compositions, and Aluminum Distributions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6184-93	16.4	58
228	TPA+-Mediated Conversion of Silicon Wafer into Preferentially-Oriented MFI Zeolite Film under Steaming. <i>Chemistry of Materials</i> , 2007 , 19, 4120-4122	9.6	55
227	Single gas permeation through porous glass modified with tetraethoxysilane. <i>AIChE Journal</i> , 1989 , 35, 845-848	3.6	54

226	A comparative study of zeolites SSZ-33 and MCM-68 for hydrocarbon trap applications. <i>Microporous and Mesoporous Materials</i> , 2006 , 96, 210-215	5.3	53
225	Phase selection of FAU and LTA zeolites by controlling synthesis parameters. <i>Microporous and Mesoporous Materials</i> , 2006 , 89, 227-234	5.3	53
224	SSZ-33: A Promising Material for Use as a Hydrocarbon Trap. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13059-13061	3.4	52
223	Morphology Control of Mesoporous Silica Particles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11168-11173	3.3	51
222	Investigation on the drying induced phase transformation of mesoporous silica; a comprehensive understanding toward mesophase determination. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10937-44	16.4	51
221	One-minute synthesis of crystalline microporous aluminophosphate (AlPO ₄ -5) by combining fast heating with a seed-assisted method. <i>Chemical Communications</i> , 2014 , 50, 2526-8	5.8	50
220	The Photocurrent of Dye-Sensitized Solar Cells Enhanced by the Surface Plasmon Resonance. <i>Journal of Chemical Engineering of Japan</i> , 2004 , 37, 645-649	0.8	48
219	Heteroepitaxial Growth of a Zeolite T.W. and T.O. are grateful to H. Tsunakawa of the High Voltage Electron Microscope Laboratory, University of Tokyo (UT), and Prof. Y. Ikuhara, Engineering Research Institute, UT, for the 400-kV SAED experiments and their analyses, respectively. H. Shiga, T. Hayashi and T. Shiraki are acknowledged for preliminary experiments. This work was supported	16.4	48
218	Crystal growth of faujasite observed by atomic force microscopy. <i>Microporous and Mesoporous Materials</i> , 2004 , 70, 7-13 <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1069-1071	5.3	47
217	Single-walled carbon nanotubes catalytically grown from mesoporous silica thin film. <i>Chemical Physics Letters</i> , 2003 , 375, 393-398	2.5	47
216	Photoluminescence sidebands of carbon nanotubes below the bright singlet excitonic levels. <i>Physical Review B</i> , 2009 , 79,	3.3	46
215	Heteroepitaxial growth of a zeolite film with a patterned surface-texture. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12388-9	16.4	46
214	Direct hydrothermal synthesis of hierarchically porous siliceous zeolite by using alkoxysilylated nonionic surfactant. <i>Langmuir</i> , 2010 , 26, 2731-5	4	45
213	Positive Temperature Coefficient of Resistivity in Ba _{1-x} Sr _x Pb _{1+y} O ₃₋₈ Ceramics. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2053-2058	3.8	45
212	Continuous flow synthesis of ZSM-5 zeolite on the order of seconds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14267-14271	11.5	45
211	Ultrafast Continuous-Flow Synthesis of Crystalline Microporous Aluminophosphate AlPO ₄ -5. <i>Chemistry of Materials</i> , 2014 , 26, 2327-2331	9.6	44
210	Ultrafast synthesis of zeolites: breakthrough, progress and perspective. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 14-31	6.8	43
209	Synthesis of Hydrophobic Molecular Sieves by Hydrothermal Treatment with Acetic Acid. <i>Chemistry of Materials</i> , 2001 , 13, 1041-1050	9.6	43

208	Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q (nAl) Si Speciation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13366-13371	16.4	42
207	Linking synthesis and structure descriptors from a large collection of synthetic records of zeolite materials. <i>Nature Communications</i> , 2019 , 10, 4459	17.4	41
206	Effect of interfacial interactions on the initial growth of Cu on clean SiO ₂ and 3-mercaptopropyltrimethoxysilane-modified SiO ₂ substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 589-596	2.9	41
205	Spectroscopic study on strongly luminescent Nd(III) exchanged zeolite: TMA ⁺ -containing FAU type zeolite as a suitable host for ship-in-bottle synthesis. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1748-1753		40
204	A top-down methodology for ultrafast tuning of nanosized zeolites. <i>Chemical Communications</i> , 2015 , 51, 12567-70	5.8	39
203	Formation of Hierarchically Organized Zeolites by Sequential Intergrowth. <i>Angewandte Chemie</i> , 2013 , 125, 3439-3443	3.6	38
202	Microwave-induced synthesis of highly dispersed gold nanoparticles within the pore channels of mesoporous silica. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 957-963	3.3	37
201	Location of Alkali Ions and their Relevance to Crystallization of Low Silica X Zeolite. <i>Crystal Growth and Design</i> , 2010 , 10, 3471-3479	3.5	36
200	Intrazeolite Nanostructure of Nd(III) Complex Giving Strong Near-Infrared Luminescence. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11302-11306	3.4	35
199	Correlation between nucleation site density and residual diamond dust density in diamond film deposition. <i>Applied Physics Letters</i> , 1994 , 65, 1192-1194	3.4	35
198	Preparation of nanosized SSZ-13 zeolite with enhanced hydrothermal stability by a two-stage synthetic method. <i>Microporous and Mesoporous Materials</i> , 2018 , 255, 192-199	5.3	34
197	Incorporation process of Ti species into the framework of MFI type zeolite. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 202-210	5.3	34
196	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3742-3746	16.4	33
195	Factors Governing the Formation of Hierarchically and Sequentially Intergrown MFI Zeolites by Using Simple Diquaternary Ammonium Structure-Directing Agents. <i>Chemistry of Materials</i> , 2016 , 28, 8997-9007	9.6	33
194	Ultrafast synthesis of silicalite-1 using a tubular reactor with a feature of rapid heating. <i>Microporous and Mesoporous Materials</i> , 2016 , 223, 140-144	5.3	32
193	Seed-assisted, one-pot synthesis of hollow zeolite beta without using organic structure-directing agents. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1419-27	4.5	32
192	Cooperative Effect of Sodium and Potassium Cations on Synthesis of Ferrierite. <i>Topics in Catalysis</i> , 2009 , 52, 67-74	2.3	32
191	Evolution of Pore Structure in Microporous Silica Membranes: Sol-Gel Procedures and Strategies. <i>Advanced Materials</i> , 1998 , 10, 249-252	24	32

190	Gas permeation of porous organic/inorganic hybrid membranes. <i>Journal of Sol-Gel Science and Technology</i> , 1995 , 5, 127-134	2.3	32
189	Continuous flow synthesis of ordered porous materials: from zeolites to metal-organic frameworks and mesoporous silica. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1699-1720	4.9	30
188	A new synthesis of well-dispersed, core-shell Ag@SiO ₂ mesoporous nanoparticles using amino acids and sugars. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2451-2454	7.3	30
187	Studies on mesoporous silica films synthesized using F127, a triblock co-polymer. <i>Microporous and Mesoporous Materials</i> , 2004 , 75, 51-59	5.3	30
186	Self-Assembling Process of Colloidal Particles into Two-Dimensional Arrays Induced by Capillary Immersion Force: A Simulation Study With Discrete Element Method. <i>Journal of Nanoparticle Research</i> , 2003 , 5, 103-110	2.3	30
185	An organic functional group introduced to Si(1 1 1) via silicon-carbon bond: a liquid-phase approach. <i>Applied Surface Science</i> , 2001 , 171, 252-256	6.7	30
184	A Collective Case Screening of the Zeolites made in Japan for High Performance NH ₃ -SCR of NO _x . <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 355-361	5.1	29
183	Early stages of MFI film formation. <i>Microporous and Mesoporous Materials</i> , 1998 , 21, 325-332	5.3	29
182	Effect of Lithium Doping into MIL-53(Al) through Thermal Decomposition of Anion Species on Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10260-10265	3.8	28
181	In situ observation of homogeneous nucleation of nanosized zeolite A. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 1335-9	3.6	28
180	Multiscale Simulation of Two-Dimensional Self-Organization of Nanoparticles in Liquid Film. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 4434-4442	1.4	28
179	Crystallization behavior of zeolite beta with balanced incorporation of silicon and aluminum synthesized from alkali metal cation-free mixture. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 188-195	5.3	27
178	Synthesis and Structure of Ultrafine Zeolite KL (LTL) Crystallites and their Use for Thin Film Zeolite Processing. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 371, 21		27
177	Antibacterial Activity of Silver-Loaded Green Zeolites. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3398-3402	2.3	26
176	Ultrafast, OSDA-free synthesis of mordenite zeolite. <i>CrystEngComm</i> , 2017 , 19, 632-640	3.3	25
175	Biphasic synthesis of colloidal mesoporous silica nanoparticles using primary amine catalysts. <i>Journal of Colloid and Interface Science</i> , 2012 , 385, 41-7	9.3	25
174	Alkali Carbonate Stabilized on Aluminosilicate via Solid Ion Exchange as a Catalyst for Diesel Soot Combustion. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14892-14898	3.8	25
173	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19669-19674	16.4	24

172	Carbonate-Promoted Catalytic Activity of Potassium Cations for Soot Combustion by Gaseous Oxygen. <i>ChemCatChem</i> , 2014 , 6, 479-484	5.2	24
171	Extremely Stable Zeolites Developed via Designed Liquid-Mediated Treatment. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3931-3938	16.4	23
170	Mesoporogen-free synthesis of hierarchically porous ZSM-5 below 100 °C. <i>Microporous and Mesoporous Materials</i> , 2016 , 226, 344-352	5.3	23
169	Seed-directed, rapid synthesis of MAZ-type zeolites without using organic structure-directing agent. <i>Microporous and Mesoporous Materials</i> , 2014 , 186, 21-28	5.3	23
168	Downsizing AFX Zeolite Crystals to Nanoscale by a Postmilling Recrystallization Method. <i>Crystal Growth and Design</i> , 2016 , 16, 3389-3394	3.5	23
167	Comparative Study on the Different Interaction Pathways between Amorphous Aluminosilicate Species and Organic Structure-Directing Agents Yielding Different Zeolite Phases. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24324-24334	3.8	22
166	Ultratrace Measurement of Acetone from Skin Using Zeolite: Toward Development of a Wearable Monitor of Fat Metabolism. <i>Analytical Chemistry</i> , 2015 , 87, 7588-94	7.8	22
165	Stabilization of bare divalent Fe(II) cations in Al-rich beta zeolites for superior NO adsorption. <i>Journal of Catalysis</i> , 2014 , 315, 1-5	7.3	22
164	Sn-Beta Zeolite Catalysts with High Sn Contents Prepared from SnBi Mixed Oxide Composites. <i>ChemNanoMat</i> , 2015 , 1, 155-158	3.5	22
163	Widening Synthesis Bottlenecks: Realization of Ultrafast and Continuous-Flow Synthesis of High-Silica Zeolite SSZ-13 for NO _x Removal. <i>Angewandte Chemie</i> , 2015 , 127, 5775-5779	3.6	22
162	Synthesis of a three-dimensional cubic mesoporous silica monolith employing an organic additive through an evaporation-induced self-assembly process. <i>Langmuir</i> , 2006 , 22, 6391-7	4	22
161	Phase and orientation control of mesoporous silica thin film via phase transformation. <i>Thin Solid Films</i> , 2006 , 495, 11-17	2.2	22
160	Seed-Assisted Synthesis of MWW-Type Zeolite with Organic Structure-Directing Agent-Free Na-Aluminosilicate Gel System. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 530-542	4.5	21
159	Ultrafast and Continuous Flow Synthesis of Silicoaluminophosphates. <i>Chemistry of Materials</i> , 2016 , 28, 4840-4847	9.6	21
158	Tracking the rearrangement of atomic configurations during the conversion of zeolite to zeolite. <i>Chemical Science</i> , 2019 , 10, 8533-8540	9.4	21
157	Diol-linked microporous networks of cubic siloxane cages. <i>Chemistry - A European Journal</i> , 2013 , 19, 1700-5	4.5	21
156	Hydrocarbon Reformer Trap by Use of Transition Metal Oxide-Incorporated Beta Zeolites. <i>Catalysis Letters</i> , 2007 , 118, 72-78	2.8	21
155	Spontaneous formation of large-area monolayers of well-ordered nanoparticles via a wet-coating process. <i>Journal of Nanoparticle Research</i> , 2004 , 6, 479-487	2.3	21

- 154 Ionic conductivity of single-crystal ferrierite. *Microporous and Mesoporous Materials*, **2000**, 40, 283-288 5.3 21
- 153 Improvement of surface transport property by surface modification. *AIChE Journal*, **1988**, 34, 1031-1033 3.6 21
- 152 Porous inorganic-organic hybrid polymers derived from cyclic siloxane building blocks: Effects of substituting groups on mesoporous structures. *Microporous and Mesoporous Materials*, **2019**, 278, 212-218 5.3 21
- 151 Fabrication of hierarchical Lewis acid Sn-BEA with tunable hydrophobicity for cellulosic sugar isomerization. *Microporous and Mesoporous Materials*, **2019**, 278, 387-396 5.3 21
- 150 Ultrafast synthesis of high-silica erionite zeolites with improved hydrothermal stability. *Chemical Communications*, **2017**, 53, 6796-6799 5.8 20
- 149 Broadening the Applicable Scope of Seed-Directed, Organic Structure-Directing Agent-Free Synthesis of Zeolite to Zincosilicate Components: A Case of VET-Type Zincosilicate Zeolites. *Chemistry of Materials*, **2014**, 26, 1957-1966 9.6 20
- 148 Synthesis of zeolites using highly amphiphilic cations as organic structure-directing agents by hydrothermal treatment of a dense silicate gel. *Chemical Communications*, **2014**, 50, 1330-3 5.8 20
- 147 Synthesis of hydrophobic siliceous ferrierite by using pyridine and sodium fluoride. *Microporous and Mesoporous Materials*, **2013**, 181, 154-159 5.3 20
- 146 Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q4(nAl) Si Speciation. *Angewandte Chemie*, **2017**, 129, 13551-13556 3.6 20
- 145 High-temperature catalyst supports and ceramic membranes: Metastability and particle packing. *AIChE Journal*, **1997**, 43, 2710-2714 3.6 20
- 144 Crystal Phases of TiO₂ Ultrafine Particles Prepared by Laser Ablation of Solid Rods. *Journal of Nanoparticle Research*, **2002**, 4, 215-219 2.3 20
- 143 Cu-Erionite Zeolite Achieves High Yield in Direct Oxidation of Methane to Methanol by Isothermal Chemical Looping. *Chemistry of Materials*, **2020**, 32, 1448-1453 9.6 19
- 142 Ultrafast synthesis of *BEA zeolite without the aid of aging pretreatment. *Microporous and Mesoporous Materials*, **2018**, 268, 1-8 5.3 19
- 141 Effect of organic groups on hydrogen adsorption properties of periodic mesoporous organosilicas. *Microporous and Mesoporous Materials*, **2012**, 147, 194-199 5.3 19
- 140 Synthesis of ordered photoresponsive azobenzene-siloxane hybrids by self-assembly. *Journal of Materials Chemistry C*, **2013**, 1, 6989 7.1 19
- 139 Effects of silicon sources on the formation of nanosized LTA: An in situ small angle X-ray scattering and wide angle X-ray scattering study. *Microporous and Mesoporous Materials*, **2007**, 101, 134-141 5.3 19
- 138 Structural and morphological control of nanosized Cu islands on SiO₂ using a Ti underlayer. *Journal of Applied Physics*, **2003**, 94, 3492-3497 2.5 19
- 137 Mechanistic Study on the Synthesis of a Porous Zincosilicate VPI-7 Containing Three-Membered Rings. *Journal of Physical Chemistry C*, **2011**, 115, 443-446 3.8 18

136	Preparation of silica/carbon composites with uniform and well-ordered mesopores by esterification method. <i>Microporous and Mesoporous Materials</i> , 2009 , 124, 123-130	5.3	18
135	Changes in the medium-range order during crystallization of aluminosilicate zeolites characterized by high-energy X-ray diffraction technique. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 277-282	1	18
134	GUS-1: a mordenite-like molecular sieve with the 12-ring channel of ZSM-12. <i>Chemical Communications</i> , 2000 , 2363-2364	5.8	18
133	Preparation and characterization of Silicalite-1 zeolites with high manganese contents from mechanochemically pretreated reactants. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6215-6222	13	17
132	Plate-like precursors formed in crystallization process of ferrierite from (Na, K)-aluminosilicate system. <i>Microporous and Mesoporous Materials</i> , 2012 , 158, 204-208	5.3	17
131	Preparation of core-shell mesoporous silica nanoparticles with bimodal pore structures by regrowth method. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 57-64	9.3	17
130	Zeolite Surface As a Catalyst Support Material for Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24231-24237	3.8	17
129	A novel layered bimetallic phosphite intercalating with organic amines: Synthesis and characterization of $\text{Co}(\text{H}_2\text{O})_4\text{Zn}_4(\text{HPO}_3)_6 \cdot 2\text{N}_2\text{H}_{10}$. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 723-728 ^{3.3}	3.3	17
128	Hydrothermal synthesis and structure of ASU-14 topological framework by using ethylenediamine as a structure-directing agent. <i>Microporous and Mesoporous Materials</i> , 2004 , 70, 1-6	5.3	17
127	Surface diffusion on modified surface of porous glass.. <i>Journal of Chemical Engineering of Japan</i> , 1987 , 20, 590-597	0.8	17
126	Remarkable enhancement of catalytic activity and selectivity of MSE-type zeolite by post-synthetic modification. <i>Catalysis Today</i> , 2015 , 243, 85-91	5.3	16
125	Tailoring the Subnano Silica Structure via Fluorine Doping for Development of Highly Permeable CO ₂ Separation Membranes. <i>ChemNanoMat</i> , 2016 , 2, 264-267	3.5	16
124	Structural Evolution of Amorphous Precursors toward Crystalline Zeolites Visualized by an in Situ X-ray Pair Distribution Function Approach. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28419-28426	3.8	16
123	Versatile fabrication of distorted cubic mesoporous silica film using CTAB together with a hydrophobic organic additive. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9751-4	3.4	16
122	Synthesis of Mesoporous Silica Thin Film with Three-dimensional Accessible Pore Structure. <i>Chemistry Letters</i> , 2004 , 33, 1078-1079	1.7	16
121	Ultrafast post-synthesis treatment to prepare ZSM-5@Silicalite-1 as a core-shell structured zeolite catalyst. <i>Microporous and Mesoporous Materials</i> , 2019 , 277, 197-202	5.3	16
120	Organic structure-directing agent-free synthesis of NES-type zeolites using EU-1 seed crystals. <i>Microporous and Mesoporous Materials</i> , 2015 , 215, 191-198	5.3	15
119	Photoelectric properties of nano-ZnO fabricated in mesoporous silica film. <i>Materials Letters</i> , 2007 , 61, 3179-3184	3.3	15

- 118 Synthesis and characterization of aluminium containing CIT-1 and their structure-property relationship to hydrocarbon trap performance. *Microporous and Mesoporous Materials*, **2010**, 129, 126-135 5.3 14
- 117 The Hydrothermal Synthesis and Crystal Structure of (H₂O)[Ge₅O₁₀] and [(CH₃)₄N][Ge₁₀O₂₀OH], Two Novel Porous Germanates. *Chemistry Letters*, **2004**, 33, 74-75 1.7 14
- 116 Millimeter-sized sodalite single crystals grown under high-temperature, high-pressure hydrothermal conditions. *Microporous and Mesoporous Materials*, **2001**, 42, 229-234 5.3 14
- 115 Testing the limits of zeolite structural flexibility: ultrafast introduction of mesoporosity in zeolites. *Journal of Materials Chemistry A*, **2020**, 8, 735-742 13 14
- 114 From Charge Density Mismatch to a Simplified, More Efficient Seed-Assisted Synthesis of UZM-4. *Chemistry of Materials*, **2013**, 25, 2603-2609 9.6 13
- 113 Synthesis of a new molecular sieve using DABCO-based structure-directing agent. *Catalysis Today*, **2002**, 74, 271-279 5.3 13
- 112 Self-assembly of water-dispersed gold nanoparticles stabilized by a thiolated glycol derivative. *Journal of Nanoparticle Research*, **2005**, 7, 187-193 2.3 13
- 111 Nanoparticle Vesicles with Controllable Surface Topographies through Block Copolymer-Mediated Self-Assembly of Silica Nanospheres. *Langmuir*, **2015**, 31, 13214-20 4 12
- 110 Water-Dispersible Triplet-Triplet Annihilation Photon Upconversion Particle: Molecules Integrated in Hydrophobized Two-Dimensional Interlayer Space of Montmorillonite and Their Application for Photocatalysis in the Aqueous Phase. *ACS Applied Materials & Interfaces*, **2020**, 12, 7021-7029 9.5 12
- 109 Azobenzene-siloxane hybrids with lamellar structures from bridge-type alkoxy-silyl precursors. *RSC Advances*, **2014**, 4, 25319-25325 3.7 12
- 108 Organic-free synthesis of zincoaluminosilicate zeolites from homogeneous gels prepared by a co-precipitation method. *Dalton Transactions*, **2017**, 46, 10837-10846 4.3 12
- 107 Multi-objective molecular design of organic structure-directing agents for zeolites using nature-inspired ant colony optimization. *Chemical Science*, **2020**, 11, 8214-8223 9.4 12
- 106 Recent progress in the improvement of hydrothermal stability of zeolites. *Chemical Science*, **2021**, 12, 7677-7695 9.4 12
- 105 Rational seed-directed synthesis of MSE-type zeolites using a simple organic structure-directing agent by extending the composite building unit hypothesis. *Microporous and Mesoporous Materials*, **2017**, 245, 1-7 5.3 11
- 104 Comparative study of aluminosilicate glass and zeolite precursors in terms of Na environment and network structure. *Microporous and Mesoporous Materials*, **2018**, 271, 33-40 5.3 11
- 103 Zeolite Crystallization Triggered by Intermediate Stirring. *Journal of Physical Chemistry C*, **2019**, 123, 20304-20313 3.8 11
- 102 Crystallinity of large single crystals of FAU-type zeolites with a wide range of Si/Al ratios. *Journal of Porous Materials*, **2011**, 18, 305-317 2.4 11
- 101 Tri(quaternary ammonium) Surfactant with a Benzene Core as a Novel Template for Synthesis of Ordered Porous Silica. *Chemistry Letters*, **2010**, 39, 236-237 1.7 11

100	Crystal Growth Behavior of Zeolites Elucidated by Atomic Force Microscopy. <i>Journal of Chemical Engineering of Japan</i> , 2004 , 37, 669-674	0.8	11
99	Understanding the high hydrothermal stability and NH ₃ -SCR activity of the fast-synthesized ERI zeolite. <i>Journal of Catalysis</i> , 2020 , 391, 346-356	7.3	11
98	Super Hydrocarbon Reformer Trap For the Complete Oxidation of Toluene Using Iron-Exchanged Zeolite with a Low Silicon/Aluminum Ratio. <i>ChemCatChem</i> , 2016 , 8, 2516-2524	5.2	11
97	Temperature-controlled, two-stage synthesis of ZSM-5 zeolite nanoparticles with Al atoms tetrahedrally coordinated in the framework. <i>Microporous and Mesoporous Materials</i> , 2018 , 270, 200-203	5.3	11
96	Reaction Kinetics Regulated Formation of Short-Range Order in an Amorphous Matrix during Zeolite Crystallization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10986-10997	16.4	11
95	Ultrafast synthesis of AFX-Type zeolite with enhanced activity in the selective catalytic reduction of NO _x and hydrothermal stability.. <i>RSC Advances</i> , 2019 , 9, 16790-16796	3.7	10
94	Resolving the Framework Position of Organic Structure-Directing Agents in Hierarchical Zeolites via Polarized Stimulated Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1778-1782	6.4	10
93	Surfactant-free synthesis of hollow mesoporous organosilica nanoparticles with controllable particle sizes and diversified organic moieties. <i>RSC Advances</i> , 2016 , 6, 90435-90445	3.7	10
92	Pioneering In Situ Recrystallization during Bead Milling: A Top-down Approach to Prepare Zeolite A Nanocrystals. <i>Scientific Reports</i> , 2016 , 6, 29210	4.9	10
91	Downsizing the K-CHA zeolite by a postmilling-recrystallization method for enhanced base-catalytic performance. <i>New Journal of Chemistry</i> , 2016 , 40, 492-496	3.6	10
90	Facile synthesis of hydroxy-modified MOF-5 for improving the adsorption capacity of hydrogen by lithium doping. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2801-6	4.5	10
89	Preparation and Gas Permeation Properties of Fluorine-Silica Membranes with Controlled Amorphous Silica Structures: Effect of Fluorine Source and Calcination Temperature on Network Size. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24625-24633	9.5	10
88	Facile Synthesis of Well-dispersed Hollow Mesoporous Silica Nanoparticles Using Iron Oxide Nanoparticles as Template. <i>Chemistry Letters</i> , 2013 , 42, 316-317	1.7	10
87	Supported and Free-Standing Sulfonic Acid Functionalized Mesostructured Silica Films with High Proton Conductivity. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3993-3999	2.3	10
86	Characterization of ESR active species on lithium chloride-modified mesoporous silica. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8574-9	3.4	10
85	Heteroepitaxial Growth of a Zeolite. <i>Angewandte Chemie</i> , 2001 , 113, 1103-1105	3.6	10
84	Hydrothermal growth of millimeter-sized aluminosilicate sodalite single crystals in noble metal capsules. <i>Journal of Materials Research</i> , 1998 , 13, 891-895	2.5	10
83	Formation of a dense non-crystalline layer on the surface of zeolite Y crystals under high-temperature steaming conditions. <i>Microporous and Mesoporous Materials</i> , 2018 , 268, 77-83	5.3	9

82	Ring assembly of silica nanospheres mediated by amphiphilic block copolymers with oxyethylene moieties. <i>Polymer Journal</i> , 2015 , 47, 128-135	2.7	9
81	[Ge ₉ O ₁₄ (OH) ₁₂](C ₆ N ₂ H ₁₆) ₂ ·2H ₂ O: A Novel Germanate with Ge ^{IV} Helical Chains Formed by Hydrothermal Synthesis that Can Separate trans and cis Isomers in Situ. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 4547-4549	2.3	9
80	Synthesis of New Microporous Zincosilicates with CHA Zeolite Topology as Efficient Platforms for Ion-Exchange of Divalent Cations. <i>Chemistry - A European Journal</i> , 2018 , 24, 808-812	4.8	9
79	Insights into the ion-exchange properties of Zn(II)-incorporated MOR zeolites for the capture of multivalent cations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4015-4021	3.6	8
78	Unique crystallization behavior in zeolite synthesis under external high pressures. <i>Chemical Communications</i> , 2020 , 56, 2811-2814	5.8	8
77	Hierarchical porous silica via solid-phase hydrolysis/polycondensation of cubic siloxane-based molecular units. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 671-676	1.3	8
76	A combined top-down and bottom-up approach to fabricate silica films with bimodal porosity. <i>Materials Letters</i> , 2011 , 65, 828-831	3.3	8
75	Investigation on specific adsorption of hydrogen on lithium-doped mesoporous silica. <i>Adsorption</i> , 2011 , 17, 211-218	2.6	8
74	Crystal structures and spectroscopic properties of a new zinc phosphite cluster and an unexpected chainlike zinc phosphate obtained by hydrothermal reactions. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 981-987	3.3	8
73	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents. <i>Angewandte Chemie</i> , 2018 , 130, 3804-3808	3.6	8
72	Understanding the Nucleation and Crystal Growth of Zeolites: A Case Study on the Crystallization of ZSM-5 from a Hydrogel System Under Ultrasonication. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11516-11524	3.8	7.4
71	Fast Synthesis of SSZ-24: A Pure Silica Zeolite with AFI Framework. <i>Chemistry Letters</i> , 2018 , 47, 654-656	1.7	7
70	Synthesis of string-bean-like anisotropic titania nanoparticles with basic amino acids. <i>RSC Advances</i> , 2014 , 4, 9233	3.7	7
69	Dendritic silica nanoparticles synthesized by a block copolymer-directed seed-regrowth approach. <i>Langmuir</i> , 2015 , 31, 1610-4	4	7
68	Alcohol washing as a way to stabilize the anatase phase of nanostructured titania through controlling particle packing. <i>Journal of Materials Science</i> , 2009 , 44, 5944-5948	4.3	7
67	Integrated modeling of agricultural and industrial processes within life cycle design for environment. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 1947-1952	0.6	7
66	A photoresponsive azobenzene-bridged cubic silsesquioxane network. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 79, 262-269	2.3	7
65	Addressing the viscosity challenge: ultrafast, stable-flow synthesis of zeolites with an emulsion method. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 844-848	4.9	7

64	Role of sodium cation during aging process in the synthesis of LEV-type zeolite. <i>Microporous and Mesoporous Materials</i> , 2019 , 284, 82-89	5.3	6
63	Zeolite and Zeolite-Like Materials 2017 , 97-119		6
62	Seed-directed Synthesis of CON-type Zeolite Using Tetraethylammonium Hydroxide as a Simple Organic Structure-directing Agent. <i>Chemistry Letters</i> , 2017 , 46, 1419-1421	1.7	6
61	Synthesis of ALPO-5 at Low Temperature by Controlling the Kinetics of Conversion of Aluminophosphate Phases. <i>Chemistry Letters</i> , 2012 , 41, 889-891	1.7	6
60	Fabrication of Mesoporous Silica Films via a Novel Route Providing a Wide Processing Time Window. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 4156-4160	3.9	6
59	Determination of Silica Mesophases by Controlling Silicate Condensation in Liquid Phase. <i>Chemistry Letters</i> , 2004 , 33, 734-735	1.7	6
58	Effects of Particle Size on the Monolayer Structure of Nanoparticles Formed via a Wet-Coating Process. <i>Journal of Chemical Engineering of Japan</i> , 2005 , 38, 564-570	0.8	6
57	Implementation Analysis of Bagasse Power Plants Considering Technology Options on Sugarcane Cultivars and Power Plants. <i>Kagaku Kogaku Ronbunshu</i> , 2018 , 44, 113-122	0.4	5
56	Nepheline Synthesized from Sodalite as Diesel-Soot Combustion Catalyst: Structure-Property Relationship Study for an Enhanced Water Tolerance. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 527-532	5.1	5
55	Synthesis of pure-silica ZSM-48 zeolite under mild hydrothermal condition with conventional amphiphilic cation by tuning the reactant gel composition. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 575-577	1	5
54	Evidence of ²⁹ Si NMR paramagnetic shifts in rare-earth zeolite LSX. <i>Chemical Communications</i> , 2001 , 2112-3	5.8	5
53	Activity and Data Models of Planning Processes for Industrial Symbiosis in Rural Areas. <i>Kagaku Kogaku Ronbunshu</i> , 2017 , 43, 347-357	0.4	5
52	Comparative study of direct methylation of benzene with methane on cobalt-exchanged ZSM-5 and ZSM-11 zeolites. <i>Applied Catalysis A: General</i> , 2020 , 601, 117661	5.1	5
51	Toward Efficient Synthesis of Chiral Zeolites: A Rational Strategy for Fluoride-Free Synthesis of STW-Type Zeolite. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20099-20103	16.4	5
50	Ultrafast surfactant-templating of *BEA zeolite: An efficient catalyst for the cracking of polyethylene pyrolysis vapours. <i>Chemical Engineering Journal</i> , 2021 , 412, 128566	14.7	5
49	Synthetic and natural MOR zeolites as high-capacity adsorbents for the removal of nitrous oxide. <i>Chemical Communications</i> , 2021 , 57, 1312-1315	5.8	5
48	Increasing the ion-exchange capacity of MFI zeolites by introducing Zn to aluminosilicate frameworks. <i>Dalton Transactions</i> , 2018 , 47, 9546-9553	4.3	5
47	Seed-directed synthesis of zincoaluminosilicate MSE-type zeolites using co-precipitated gels with tetraethylammonium hydroxide as a simple organic structure directing agent. <i>Microporous and Mesoporous Materials</i> , 2018 , 257, 272-280	5.3	4

46	Crucial Factors for Seed-Directed Synthesis of CON-type Aluminoborosilicate Zeolites Using Tetraethylammonium. <i>Crystal Growth and Design</i> , 2019 , 19, 5283-5291	3.5	4
45	Bridging the Gap between Structurally Distinct 2D Lamellar Zeolitic Precursors through a 3D Germanosilicate Intermediate. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14529-14533	16.4	4
44	Bioinspired Approach to Silica Nanoparticle Synthesis Using Amine-Containing Block Copoly(vinyl ethers): Realizing Controlled Anisotropy. <i>Langmuir</i> , 2019 , 35, 10846-10854	4	4
43	Crosslinking-assisted Stabilization of Beaded Nanofibers from Elastin-like Double Hydrophobic Polypeptides. <i>Chemistry Letters</i> , 2015 , 44, 530-532	1.7	4
42	Formation process of three-dimensional arrays from silica spheres. <i>AIChE Journal</i> , 2003 , 49, 1293-1299	3.6	4
41	Spectral narrowing of the emission from rhodamine 6G infiltrated in synthetic opals enhanced by the surface plasmon resonance. <i>Applied Physics Letters</i> , 2003 , 83, 2536-2538	3.4	4
40	Crystallization of a Novel Germanosilicate ECNU-16 Provides Insights into the Space-Filling Effect on Zeolite Crystal Symmetry. <i>Chemistry - A European Journal</i> , 2018 , 24, 9247-9253	4.8	4
39	Two-Stage Crystallization of Meso- and Macroporous MFI and MEL Zeolites Using Tributylamine-Derived Diquaternary Ammonium Cations as Organic Structure-Directing Agents. <i>Bulletin of the Chemical Society of Japan</i> , 2017 , 90, 586-594	5.1	3
38	Highly nanoporous silicas with pore apertures near the boundary between micro- and mesopores through an orthogonal self-assembly approach. <i>Chemical Communications</i> , 2015 , 51, 10718-21	5.8	3
37	Synthesis of MCM-41 with High Manganese Content by Mechanochemical Pretreatment of the Starting Materials. <i>Chemistry Letters</i> , 2014 , 43, 1346-1348	1.7	3
36	Simulation-based analysis for operational decision support on scheduling in sugar crystallization considering quality of molasses and syrup. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1807-1812	0.6	3
35	Structural Control of Phenylene-bridged Periodic Mesoporous Organosilica with Organic Additives. <i>Chemistry Letters</i> , 2009 , 38, 1026-1027	1.7	3
34	Optimized ultrafast flow synthesis of CON-type zeolite and improvement of its catalytic properties. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 2260-2266	4.9	3
33	Amino Acid-assisted One-dimensional Assembly of Semiconducting Metal Oxide Nanoparticles in Aqueous Alcohol Media. <i>Chemistry Letters</i> , 2014 , 43, 934-935	1.7	2
32	Cryogenic Hydrogen Adsorption onto H-, Li-, Na-Exchanged Zeolites with Various Si/Al Ratios. <i>Adsorption Science and Technology</i> , 2014 , 32, 413-423	3.6	2
31	Effect of Base Molecules on One-dimensional Assembly of Silica Nanospheres Mediated by a Block Copolymer. <i>Chemistry Letters</i> , 2013 , 42, 481-482	1.7	2
30	Phase transformation in mesoporous silica films induced by the degradation of organic moiety. <i>Journal of Porous Materials</i> , 2006 , 13, 303-306	2.4	2
29	Zeolite Sensor for Nitrogen Monoxide Detection at High Temperature. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 454, 297		2

28	Rapid Synthesis of Hydrothermally Stable ZSM-5 in the Presence of 1-Butanol. <i>Chemistry Letters</i> , 2020 , 49, 1006-1008	1.7	2
27	Dense Integration of Stable Aromatic Radicals within the Two-Dimensional Interlayer Space of Clay Minerals via Clay-Catalyzed Deamination of Arylammoniums. <i>Chemistry of Materials</i> , 2020 , 32, 9008-9015	9.6	2
26	Ultrafast and continuous-flow synthesis of AFX zeolite via interzeolite conversion of FAU zeolite. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 74-81	4.9	2
25	Tracking the crystallization behavior of high-silica FAU during AEI-type zeolite synthesis using acid treated FAU-type zeolite.. <i>RSC Advances</i> , 2021 , 11, 23082-23089	3.7	2
24	Superior Ion-exchange Property of Amorphous Aluminosilicates Prepared by a Co-precipitation Method. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2029-2034	4.5	1
23	Bridging the Gap between Structurally Distinct 2D Lamellar Zeolitic Precursors through a 3D Germanosilicate Intermediate. <i>Angewandte Chemie</i> , 2019 , 131, 14671-14675	3.6	1
22	Synthesis of Ultrafine .BETA.-SiC Particles from SiO _x (x=0,1,2) Powders and C ₂ H ₂ .. <i>Journal of Chemical Engineering of Japan</i> , 1997 , 30, 662-668	0.8	1
21	Synthesis of SiC(β) Ultrafine particles from Si, SiO, or SiO ₂ powder and CH ₄ . <i>AIChE Journal</i> , 1997 , 43, 2650-2656	3.6	1
20	Synthesis and Characterization of a New Three-dimensional Organically Templated Nickel-Zinc Phosphate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 465-468	1.3	1
19	Multiscale Simulation Method for Self-Organization of Colloidal Nanoparticles during Drying. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 2004 , 70, 2258-2264		1
18	Broadening synthetic scope of SSZ-39 zeolite for NH ₃ -SCR: A fast and direct route from amorphous starting materials. <i>Microporous and Mesoporous Materials</i> , 2022 , 330, 111583	5.3	1
17	Synthesis of molecular sieves as environment conscious materials.. <i>Journal of Advanced Science</i> , 2001 , 13, 363-366	0	1
16	No more trial and error for zeolites. <i>Science</i> , 2021 , 374, 257-258	33.3	1
15	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 19837-19842	3.6	1
14	Rational Manipulation of Stacking Arrangements in Three-Dimensional Zeolites Built from Two-Dimensional Zeolitic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19934-19939	16.4	1
13	Synthesis of (Silico)aluminophosphate Molecular Sieves Using an Alkanolamine as a Novel Organic Structure-directing Agent. <i>Chemistry Letters</i> , 2015 , 44, 1300-1302	1.7	0
12	Reduction of crystal size of silicalite-1 synthesized in fluoride-containing media via multi-stage heating with intermediate stirring. <i>Journal of the Ceramic Society of Japan</i> , 2022 , 130, 187-194	1	0
11	Röntgenbild: Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q ₄ (nAl) Si Speciation (Angew. Chem. 43/2017). <i>Angewandte Chemie</i> , 2017 , 129, 13718-13718	3.6	

- 10 Innentitelbild: Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents (*Angew. Chem.* 14/2018). *Angewandte Chemie*, **2018**, 130, 3582-3582 3.6
- 9 Sodalite Layer as a Protective Barrier for Diesel Particulate Filters. *Bulletin of the Chemical Society of Japan*, **2013**, 86, 363-369 5.1
- 8 CONTROL OF NANOSTRUCTURE OF MATERIALS **2008**, 177-265
- 7 A New Microporous Silicate With 12-Ring Channels. *Materials Research Society Symposia Proceedings*, **2000**, 658, 6281
- 6 Cluster Formation by Laser Ablation of Zeolites. *Materials Research Society Symposia Proceedings*, **1996**, 457, 57
- 5 ??????????????. *Journal of the Japan Society of Colour Material*, **2010**, 83, 276-281 0
- 4 Rational Manipulation of Stacking Arrangements in Three-Dimensional Zeolites Built from Two-Dimensional Zeolitic Nanosheets. *Angewandte Chemie*, **2020**, 132, 20106-20111 3.6
- 3 Toward Efficient Synthesis of Chiral Zeolites: A Rational Strategy for Fluoride-Free Synthesis of STW-Type Zeolite. *Angewandte Chemie*, **2020**, 132, 20274-20278 3.6
- 2 Synthesis of Microporous Zincosilicate *BEA Molecular Sieves from Zincosilicate Gels Co-precipitated in the Presence of an Organic Structure-directing Agent. *Chemistry Letters*, **2018**, 47, 897-900 1.7
- 1 Aryl radical initiators accumulated within layered silicates realize polystyrene with directly and regioselectively bonded aryl-terminal groups. *Dalton Transactions*, **2021**, 50, 835-839 4.3