Tatsuya Okubo

List of Publications by Year in descending order

264 papers	9,352 citations	36271 51 h-index	58549 82 g-index
272 all docs	272 docs citations	272 times ranked	7581 citing authors

#	Article	IF	Citations
1	Periodic Arrangement of Silica Nanospheres Assisted by Amino Acids. Journal of the American Chemical Society, 2006, 128, 13664-13665.	6.6	406
2	Densification of nanostructured titania assisted by a phase transformation. Nature, 1992, 358, 48-51.	13.7	332
3	A Working Hypothesis for Broadening Framework Types of Zeolites in Seed-Assisted Synthesis without Organic Structure-Directing Agent. Journal of the American Chemical Society, 2012, 134, 11542-11549.	6.6	272
4	Crystallization Behavior of Zeolite Beta in OSDA-Free, Seed-Assisted Synthesis. Journal of Physical Chemistry C, 2011, 115, 744-750.	1.5	172
5	Mechanism of Formation of Uniform-Sized Silica Nanospheres Catalyzed by Basic Amino Acids. Chemistry of Materials, 2009, 21, 3719-3729.	3.2	169
6	Critical Factors in the Seedâ€Assisted Synthesis of Zeolite Beta and â€œGreen Betaâ€•from OSDAâ€Free Na⁺â€“Aluminosilicate Gels. Chemistry - an Asian Journal, 2010, 5, 2182-2191.	1.7	158
7	Progress in seed-assisted synthesis of zeolites without using organic structure-directing agents. Microporous and Mesoporous Materials, 2014, 189, 22-30.	2.2	156
8	High Efficiency Near-IR Emission of Nd(III) Based on Low-Vibrational Environment in Cages of Nanosized Zeolites. Journal of the American Chemical Society, 2000, 122, 8583-8584.	6.6	148
9	Structure-Directing Behaviors of Tetraethylammonium Cations toward Zeolite Beta Revealed by the Evolution of Aluminosilicate Species Formed during the Crystallization Process. Journal of the American Chemical Society, 2015, 137, 14533-14544.	6.6	140
10	Morphology and chemical state of Co?Mo catalysts for growth ofBsingle-walled carbon nanotubes vertically aligned on quartz substrates. Journal of Catalysis, 2004, 225, 230-239.	3.1	133
11	Mesoporous Silica Nanoparticles with Remarkable Stability and Dispersibility for Antireflective Coatings. Chemistry of Materials, 2010, 22, 12-14.	3.2	131
12	Overview of Nanoparticle Array Formation by Wet Coating. Journal of Nanoparticle Research, 2003, 5, 5-15.	0.8	129
13	Aluminosilicate Species in the Hydrogel Phase Formed during the Aging Process for the Crystallization of FAU Zeolite. Chemistry of Materials, 2003, 15, 2661-2667.	3.2	127
14	Formation of Hierarchically Organized Zeolites by Sequential Intergrowth. Angewandte Chemie - International Edition, 2013, 52, 3355-3359.	7.2	124
15	Widening Synthesis Bottlenecks: Realization of Ultrafast and Continuousâ€Flow Synthesis of Highâ€Silica Zeolite SSZâ€13 for NO_x Removal. Angewandte Chemie - International Edition, 2015, 54, 5683-5687.	7.2	121
16	Preparation of Supported Mesoporous Silica Layers in a Continuous Flow Cell. Chemistry of Materials, 1997, 9, 1505-1507.	3.2	119
17	Porous Siloxaneâ€“Organic Hybrid with Ultrahigh Surface Area through Simultaneous Polymerizationâ€“Destruction of Functionalized Cubic Siloxane Cages. Journal of the American Chemical Society, 2011, 133, 13832-13835.	6.6	115
18	Organicâ€“Inorganic Mesoporous Nanocarriers Integrated with Biogenic Ligands. Small, 2007, 3, 1740-1744.	5.2	114

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19	Two-Phase Synthesis of Monodisperse Silica Nanospheres with Amines or Ammonia Catalyst and Their Controlled Self-Assembly. ACS Applied Materials & Interfaces, 2011, 3, 1538-1544.	4.0	107
20	ZrO2 promoted with sulfate, iron and manganese: a solid superacid catalyst capable of low temperaturen-butane isomerization. Catalysis Letters, 1994, 25, 21-28.	1.4	102
21	Seed-assisted, OSDA-free synthesis of MTW-type zeolite and â€œGreen MTWâ€•from sodium aluminosilicate gel systems. Microporous and Mesoporous Materials, 2012, 147, 149-156.	2.2	102
22	Photoinduced Bending of Self-Assembled Azobenzeneâ€“Siloxane Hybrid. Journal of the American Chemical Society, 2015, 137, 15434-15440.	6.6	99
23	Silica Sodalite without Occluded Organic Matters by Topotactic Conversion of Lamellar Precursor. Journal of the American Chemical Society, 2008, 130, 15780-15781.	6.6	94
24	Hybrid Porous Materials with High Surface Area Derived from Bromophenylethenylâ€Functionalized Cubic Siloxaneâ€Based Building Units. Chemistry - A European Journal, 2010, 16, 6006-6014.	1.7	94
25	A new approach to the determination of atomic-architecture of amorphous zeolite precursors by high-energy X-ray diffraction technique. Physical Chemistry Chemical Physics, 2006, 8, 224-227.	1.3	88
26	Gas sensing with zeolite-coated quartz crystal microbalancesâ€”principal component analysis approach. Sensors and Actuators B: Chemical, 2002, 86, 26-33.	4.0	87
27	In situ Small-Angle and Wide-Angle X-ray Scattering Investigation on Nucleation and Crystal Growth of Nanosized Zeolite A. Chemistry of Materials, 2007, 19, 1906-1917.	3.2	87
28	Energy Analysis of Aluminosilicate Zeolites with Comprehensive Ranges of Framework Topologies, Chemical Compositions, and Aluminum Distributions. Journal of the American Chemical Society, 2016, 138, 6184-6193.	6.6	84
29	Microporous Hybrid Polymer with a Certain Crystallinity Built from Functionalized Cubic Siloxane Cages as a Singular Building Unit. Chemistry of Materials, 2010, 22, 4841-4843.	3.2	80
30	Linking synthesis and structure descriptors from a large collection of synthetic records of zeolite materials. Nature Communications, 2019, 10, 4459.	5.8	74
31	Effective Fabrication of Catalysts from Large-Pore, Multidimensional Zeolites Synthesized without Using Organic Structure-Directing Agents. Chemistry of Materials, 2014, 26, 1250-1259.	3.2	72
32	Ultrafast synthesis of zeolites: breakthrough, progress and perspective. Inorganic Chemistry Frontiers, 2019, 6, 14-31.	3.0	72
33	OSDA-free synthesis of MTW-type zeolite from sodium aluminosilicate gels with zeolite beta seeds. Microporous and Mesoporous Materials, 2012, 163, 282-290.	2.2	71
34	Hydrothermal Synthesis and Characterization of Zeolites. Chemistry Letters, 2005, 34, 276-281.	0.7	66
35	Single gas permeation through porous glass modified with tetraethoxysilane. AICHE Journal, 1989, 35, 845-848.	1.8	64
36	Synthesis of MTW-type Zeolites in the Absence of Organic Structure-directing Agent. Chemistry Letters, 2010, 39, 730-731.	0.7	64

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37	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19669-19674.	7.2	63
38	Organicâ€Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q⁴(nAl) Si Speciation. Angewandte Chemie - International Edition, 2017, 56, 13366-13371.	7.2	62
39	Phase selection of FAU and LTA zeolites by controlling synthesis parameters. Microporous and Mesoporous Materials, 2006, 89, 227-234.	2.2	60
40	Positive Temperature Coefficient of Resistivity in Ba1-xSrxPb1+yO3-8 Ceramics. Journal of the American Ceramic Society, 1993, 76, 2053-2058.	1.9	59
41	Continuous flow synthesis of ZSM-5 zeolite on the order of seconds. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14267-14271.	3.3	59
42	TPA⁺-Mediated Conversion of Silicon Wafer into Preferentially-Oriented MFI Zeolite Film under Steaming. Chemistry of Materials, 2007, 19, 4120-4122.	3.2	58
43	Single-walled carbon nanotubes catalytically grown from mesoporous silica thin film. Chemical Physics Letters, 2003, 375, 393-398.	1.2	56
44	Crystal growth of faujasite observed by atomic force microscopy. Microporous and Mesoporous Materials, 2004, 70, 7-13.	2.2	56
45	SSZ-33:Â A Promising Material for Use as a Hydrocarbon Trap. Journal of Physical Chemistry B, 2004, 108, 13059-13061.	1.2	56
46	A comparative study of zeolites SSZ-33 and MCM-68 for hydrocarbon trap applications. Microporous and Mesoporous Materials, 2006, 96, 210-215.	2.2	56
47	One-minute synthesis of crystalline microporous aluminophosphate (AlPO4-5) by combining fast heating with a seed-assisted method. Chemical Communications, 2014, 50, 2526.	2.2	56
48	Morphology Control of Mesoporous Silica Particles. Journal of Physical Chemistry C, 2007, 111, 11168-11173.	1.5	55
49	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structureâ€Directing Agents. Angewandte Chemie - International Edition, 2018, 57, 3742-3746.	7.2	55
50	Heteroepitaxial Growth of a Zeolite. Angewandte Chemie - International Edition, 2001, 40, 1069-1071.	7.2	53
51	The Photocurrent of Dye-Sensitized Solar Cells Enhanced by the Surface Plasmon Resonance. Journal of Chemical Engineering of Japan, 2004, 37, 645-649.	0.3	53
52	Direct Hydrothermal Synthesis of Hierarchically Porous Siliceous Zeolite by Using Alkoxysilylated Nonionic Surfactant. Langmuir, 2010, 26, 2731-2735.	1.6	52
53	Tracking the rearrangement of atomic configurations during the conversion of FAU zeolite to CHA zeolite. Chemical Science, 2019, 10, 8533-8540.	3.7	52
54	Investigation on the Drying Induced Phase Transformation of Mesoporous Silica; A Comprehensive Understanding toward Mesophase Determination. Journal of the American Chemical Society, 2004, 126, 10937-10944.	6.6	51

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55	Photoluminescence sidebands of carbon nanotubes below the bright singlet excitonic levels. Physical Review B, 2009, 79, .	1.1	51
56	Synthesis of Hydrophobic Molecular Sieves by Hydrothermal Treatment with Acetic Acid. Chemistry of Materials, 2001, 13, 1041-1050.	3.2	50
57	Heteroepitaxial Growth of a Zeolite Film with a Patterned Surface-Texture. Journal of the American Chemical Society, 2003, 125, 12388-12389.	6.6	49
58	A top-down methodology for ultrafast tuning of nanosized zeolites. Chemical Communications, 2015, 51, 12567-12570.	2.2	49
59	Recent progress in the improvement of hydrothermal stability of zeolites. Chemical Science, 2021, 12, 7677-7695.	3.7	49
60	Continuous flow synthesis of ordered porous materials: from zeolites to metalâ€“organic frameworks and mesoporous silica. Reaction Chemistry and Engineering, 2019, 4, 1699-1720.	1.9	48
61	Extremely Stable Zeolites Developed via Designed Liquid-Mediated Treatment. Journal of the American Chemical Society, 2020, 142, 3931-3938.	6.6	48
62	Location of Alkali Ions and their Relevance to Crystallization of Low Silica X Zeolite. Crystal Growth and Design, 2010, 10, 3471-3479.	1.4	46
63	Ultrafast Continuous-Flow Synthesis of Crystalline Microporous Aluminophosphate AlPO₄-5. Chemistry of Materials, 2014, 26, 2327-2331.	3.2	46
64	Porous inorganicâ€“organic hybrid polymers derived from cyclic siloxane building blocks: Effects of substituting groups on mesoporous structures. Microporous and Mesoporous Materials, 2019, 278, 212-218.	2.2	46
65	Preparation of nanosized SSZ-13 zeolite with enhanced hydrothermal stability by a two-stage synthetic method. Microporous and Mesoporous Materials, 2018, 255, 192-199.	2.2	45
66	Effect of interfacial interactions on the initial growth of Cu on clean SiO2 and 3-mercaptopropyltrimethoxysilane-modified SiO2 substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 589-596.	0.9	43
67	Incorporation process of Ti species into the framework of MFI type zeolite. Microporous and Mesoporous Materials, 2008, 112, 202-210.	2.2	42
68	Spectroscopic study on strongly luminescent Nd(iii) exchanged zeolite: TMA+-containing FAU type zeolite as a suitable host for ship-in-bottle synthesis. Journal of Materials Chemistry, 2002, 12, 1748-1753.	6.7	41
69	Factors Governing the Formation of Hierarchically and Sequentially Intergrown MFI Zeolites by Using Simple Diquaternary Ammonium Structure-Directing Agents. Chemistry of Materials, 2016, 28, 8997-9007.	3.2	41
70	Microwave-induced synthesis of highly dispersed gold nanoparticles within the pore channels of mesoporous silica. Journal of Solid State Chemistry, 2008, 181, 957-963.	1.4	40
71	Cooperative Effect of Sodium and Potassium Cations on Synthesis of Ferrierite. Topics in Catalysis, 2009, 52, 67-74.	1.3	39
72	Seedâ€Assisted, Oneâ€Pot Synthesis of Hollow Zeolite Beta without Using Organic Structureâ€Directing Agents. Chemistry - an Asian Journal, 2013, 8, 1419-1427.	1.7	39

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73	Correlation between nucleation site density and residual diamond dust density in diamond film deposition. Applied Physics Letters, 1994, 65, 1192-1194.	1.5	38
74	Self-Assembling Process of Colloidal Particles into Two-Dimensional Arrays Induced by Capillary Immersion Force: A Simulation Study With Discrete Element Method. Journal of Nanoparticle Research, 2003, 5, 103-110.	0.8	38
75	Synthesis and Structure of Ultrafine Zeolite KL (LTL) Crystallites and their Use for Thin Film Zeolite Processing. Materials Research Society Symposia Proceedings, 1994, 371, 21.	0.1	37
76	Evolution of Pore Structure in Microporous Silica Membranes: Sol-Gel Procedures and Strategies. Advanced Materials, 1998, 10, 249-252.	11.1	37
77	Intrazeolite Nanostructure of Nd(III) Complex Giving Strong Near-Infrared Luminescence. Journal of Physical Chemistry B, 2003, 107, 11302-11306.	1.2	37
78	Gas permeation of porous organic/inorganic hybrid membranes. Journal of Sol-Gel Science and Technology, 1995, 5, 127-134.	1.1	36
79	Ultrafast synthesis of silicalite-1 using a tubular reactor with a feature of rapid heating. Microporous and Mesoporous Materials, 2016, 223, 140-144.	2.2	36
80	A Collective Case Screening of the Zeolites made in Japan for High Performance NH3-SCR of NOx. Bulletin of the Chemical Society of Japan, 2018, 91, 355-361.	2.0	36
81	Early stages of MFI film formation. Microporous and Mesoporous Materials, 1998, 21, 325-332.	2.2	35
82	Multiscale Simulation of Two-Dimensional Self-Organization of Nanoparticles in Liquid Film. Japanese Journal of Applied Physics, 2004, 43, 4434-4442.	0.8	35
83	Ultrafast, OSDA-free synthesis of mordenite zeolite. CrystEngComm, 2017, 19, 632-640.	1.3	35
84	A new synthesis of well-dispersed, coreâ€“shell Ag@SiO2 mesoporous nanoparticles using amino acids and sugars. Journal of Materials Chemistry B, 2013, 1, 2451.	2.9	34
85	Mesoporogen-free synthesis of hierarchically porous ZSM-5 below 100ÂÂ°C. Microporous and Mesoporous Materials, 2016, 226, 344-352.	2.2	34
86	Crystallization behavior of zeolite beta with balanced incorporation of silicon and aluminum synthesized from alkali metal cation-free mixture. Microporous and Mesoporous Materials, 2008, 116, 188-195.	2.2	33
87	Cu-Erionite Zeolite Achieves High Yield in Direct Oxidation of Methane to Methanol by Isothermal Chemical Looping. Chemistry of Materials, 2020, 32, 1448-1453.	3.2	33
88	In situ observation of homogeneous nucleation of nanosized zeolite A. Physical Chemistry Chemical Physics, 2006, 8, 1335.	1.3	32
89	Effect of Lithium Doping into MIL-53(Al) through Thermal Decomposition of Anion Species on Hydrogen Adsorption. Journal of Physical Chemistry C, 2012, 116, 10260-10265.	1.5	32
90	Ultrafast and Continuous Flow Synthesis of Silicoaluminophosphates. Chemistry of Materials, 2016, 28, 4840-4847.	3.2	32

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91	Reaction Kinetics Regulated Formation of Short-Range Order in an Amorphous Matrix during Zeolite Crystallization. Journal of the American Chemical Society, 2021, 143, 10986-10997.	6.6	32
92	Studies on mesoporous silica films synthesized using F127, a triblock co-polymer. Microporous and Mesoporous Materials, 2004, 75, 51-59.	2.2	31
93	An organic functional group introduced to Si(1 1 1) via siliconî—¸carbon bond: a liquid-phase approach. Applied Surface Science, 2001, 171, 252-256.	3.1	30
94	Antibacterial Activity of Silverâ€Loaded â€œGreen Zeolitesâ€• European Journal of Inorganic Chemistry, 2012, 2012, 3398-3402.	1.0	30
95	Fabrication of hierarchical Lewis acid Sn-BEA with tunable hydrophobicity for cellulosic sugar isomerization. Microporous and Mesoporous Materials, 2019, 278, 387-396.	2.2	30
96	Alkali Carbonate Stabilized on Aluminosilicate via Solid Ion Exchange as a Catalyst for Diesel Soot Combustion. Journal of Physical Chemistry C, 2011, 115, 14892-14898.	1.5	29
97	Stabilization of bare divalent Fe(II) cations in Al-rich beta zeolites for superior NO adsorption. Journal of Catalysis, 2014, 315, 1-5.	3.1	29
98	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.	3.2	29
99	Ultratrace Measurement of Acetone from Skin Using Zeolite: Toward Development of a Wearable Monitor of Fat Metabolism. Analytical Chemistry, 2015, 87, 7588-7594.	3.2	29
100	Downsizing AFX Zeolite Crystals to Nanoscale by a Postmilling Recrystallization Method. Crystal Growth and Design, 2016, 16, 3389-3394.	1.4	29
101	Seed-directed, rapid synthesis of MAZ-type zeolites without using organic structure-directing agent. Microporous and Mesoporous Materials, 2014, 186, 21-28.	2.2	28
102	Snâ€Beta Zeolite Catalysts with High Sn Contents Prepared from Snâ€“Si Mixed Oxide Composites. ChemNanoMat, 2015, 1, 155-158.	1.5	28
103	Seedâ€Assisted Synthesis of MWWâ€Type Zeolite with Organic Structureâ€Directing Agentâ€Free Naâ€Aluminosilicate Gel System. Chemistry - an Asian Journal, 2017, 12, 530-542.	1.7	27
104	Organicâ€Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q 4 (n Al) Si Speciation. Angewandte Chemie, 2017, 129, 13551-13556.	1.6	27
105	Understanding the high hydrothermal stability and NH3-SCR activity of the fast-synthesized ERI zeolite. Journal of Catalysis, 2020, 391, 346-356.	3.1	27
106	Carbonateâ€Promoted Catalytic Activity of Potassium Cations for Soot Combustion by Gaseous Oxygen. ChemCatChem, 2014, 6, 479-484.	1.8	26
107	Comparative Study on the Different Interaction Pathways between Amorphous Aluminosilicate Species and Organic Structure-Directing Agents Yielding Different Zeolite Phases. Journal of Physical Chemistry C, 2017, 121, 24324-24334.	1.5	26
108	Improvement of surface transport property by surface modification. AICHE Journal, 1988, 34, 1031-1033.	1.8	25

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109	Biphasic synthesis of colloidal mesoporous silica nanoparticles using primary amine catalysts. Journal of Colloid and Interface Science, 2012, 385, 41-47.	5.0	25
110	High-temperature catalyst supports and ceramic membranes: Metastability and particle packing. AICHE Journal, 1997, 43, 2710-2714.	1.8	24
111	Ionic conductivity of single-crystal ferrierite. Microporous and Mesoporous Materials, 2000, 40, 283-288.	2.2	24
112	Spontaneous formation of large-area monolayers of well-ordered nanoparticles via a wet-coating process. Journal of Nanoparticle Research, 2004, 6, 479-487.	0.8	24
113	Hydrocarbon Reformer Trap by Use of Transition Metal Oxide-Incorporated Beta Zeolites. Catalysis Letters, 2007, 118, 72-78.	1.4	24
114	Synthesis of zeolites using highly amphiphilic cations as organic structure-directing agents by hydrothermal treatment of a dense silicate gel. Chemical Communications, 2014, 50, 1330-1333.	2.2	24
115	Tailoring the Subnano Silica Structure via Fluorine Doping for Development of Highly Permeable CO₂ Separation Membranes. ChemNanoMat, 2016, 2, 264-267.	1.5	24
116	Ultrafast synthesis of high-silica erionite zeolites with improved hydrothermal stability. Chemical Communications, 2017, 53, 6796-6799.	2.2	24
117	Ultrafast synthesis of *BEA zeolite without the aid of aging pretreatment. Microporous and Mesoporous Materials, 2018, 268, 1-8.	2.2	24
118	Testing the limits of zeolite structural flexibility: ultrafast introduction of mesoporosity in zeolites. Journal of Materials Chemistry A, 2020, 8, 735-742.	5.2	24
119	Synthesis of a Three-Dimensional Cubic Mesoporous Silica Monolith Employing an Organic Additive through an Evaporation-Induced Self-Assembly Process. Langmuir, 2006, 22, 6391-6397.	1.6	23
120	Phase and orientation control of mesoporous silica thin film via phase transformation. Thin Solid Films, 2006, 495, 11-17.	0.8	23
121	Diolâ€Linked Microporous Networks of Cubic Siloxane Cages. Chemistry - A European Journal, 2013, 19, 1700-1705.	1.7	23
122	Synthesis of ordered photoresponsive azobenzeneâ€“siloxane hybrids by self-assembly. Journal of Materials Chemistry C, 2013, 1, 6989.	2.7	23
123	Structural Evolution of Amorphous Precursors toward Crystalline Zeolites Visualized by an in Situ X-ray Pair Distribution Function Approach. Journal of Physical Chemistry C, 2019, 123, 28419-28426.	1.5	23
124	Surface diffusion on modified surface of porous glass.. Journal of Chemical Engineering of Japan, 1987, 20, 590-597.	0.3	22
125	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.	2.2	22
126	Synthesis of hydrophobic siliceous ferrierite by using pyridine and sodium fluoride. Microporous and Mesoporous Materials, 2013, 181, 154-159.	2.2	22

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127	Organic structure-directing agent-free synthesis of NES-type zeolites using EU-1 seed crystals. Microporous and Mesoporous Materials, 2015, 215, 191-198.	2.2	22
128	Ultrafast post-synthesis treatment to prepare ZSM-5@Silicalite-1 as a core-shell structured zeolite catalyst. Microporous and Mesoporous Materials, 2019, 277, 197-202.	2.2	22
129	Multi-objectivede novomolecular design of organic structure-directing agents for zeolites using nature-inspired ant colony optimization. Chemical Science, 2020, 11, 8214-8223.	3.7	22
130	Crystal Phases of TiO2 Ultrafine Particles Prepared by Laser Ablation of Solid Rods. Journal of Nanoparticle Research, 2002, 4, 215-219.	0.8	21
131	Structural and morphological control of nanosized Cu islands on SiO2 using a Ti underlayer. Journal of Applied Physics, 2003, 94, 3492-3497.	1.1	20
132	Changes in the medium-range order during crystallization of aluminosilicate zeolites characterized by high-energy X-ray diffraction technique. Journal of the Ceramic Society of Japan, 2009, 117, 277-282.	0.5	20
133	Preparation of silica/carbon composites with uniform and well-ordered mesopores by esterification method. Microporous and Mesoporous Materials, 2009, 124, 123-130.	2.2	19
134	Mechanistic Study on the Synthesis of a Porous Zincosilicate VPI-7 Containing Three-Membered Rings. Journal of Physical Chemistry C, 2011, 115, 443-446.	1.5	19
135	Zeolite Surface As a Catalyst Support Material for Synthesis of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 24231-24237.	1.5	19
136	Effect of organic groups on hydrogen adsorption properties of periodic mesoporous organosilicas. Microporous and Mesoporous Materials, 2012, 147, 194-199.	2.2	19
137	Preparation and characterization of Silicalite-1 zeolites with high manganese contents from mechanochemically pretreated reactants. Journal of Materials Chemistry A, 2015, 3, 6215-6222.	5.2	19
138	â€œSuper Hydrocarbon Reformer Trapâ€•for the Complete Oxidation of Toluene Using Ironâ€Exchanged Î²â€Zeolite with a Low Silicon/Aluminum Ratio. ChemCatChem, 2016, 8, 2516-2524.	1.8	19
139	Ultrafast synthesis of AFX-Type zeolite with enhanced activity in the selective catalytic reduction of NOx and hydrothermal stability. RSC Advances, 2019, 9, 16790-16796.	1.7	19
140	GUS-1: a mordenite-like molecular sieve with the 12-ring channel of ZSM-12. Chemical Communications, 2000, , 2363-2364.	2.2	18
141	Hydrothermal synthesis and structure of ASU-14 topological framework by using ethylenediamine as a structure-directing agent. Microporous and Mesoporous Materials, 2004, 70, 1-6.	2.2	18
142	A novel layered bimetallic phosphite intercalating with organic amines: Synthesis and characterization of Co(H2O)4Zn4(HPO3)6Â·C2N2H10. Journal of Solid State Chemistry, 2006, 179, 723-728.	1.4	18
143	Photoelectric properties of nano-ZnO fabricated in mesoporous silica film. Materials Letters, 2007, 61, 3179-3184.	1.3	18
144	Plate-like precursors formed in crystallization process of ferrierite from (Na, K)-aluminosilicate system. Microporous and Mesoporous Materials, 2012, 158, 204-208.	2.2	18

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145	Facile Synthesis of Hydroxyâ€Modified MOFâ€5 for Improving the Adsorption Capacity of Hydrogen by Lithium Doping. Chemistry - an Asian Journal, 2013, 8, 2801-2806.	1.7	18
146	Preparation of coreâ€“shell mesoporous silica nanoparticles with bimodal pore structures by regrowth method. Journal of Colloid and Interface Science, 2015, 448, 57-64.	5.0	18
147	Remarkable enhancement of catalytic activity and selectivity of MSE-type zeolite by post-synthetic modification. Catalysis Today, 2015, 243, 85-91.	2.2	18
148	Surfactant-free synthesis of hollow mesoporous organosilica nanoparticles with controllable particle sizes and diversified organic moieties. RSC Advances, 2016, 6, 90435-90445.	1.7	18
149	Preparation and Gas Permeation Properties of Fluorineâ€“Silica Membranes with Controlled Amorphous Silica Structures: Effect of Fluorine Source and Calcination Temperature on Network Size. ACS Applied Materials & Interfaces, 2017, 9, 24625-24633.	4.0	18
150	The Hydrothermal Synthesis and Crystal Structure of (H2O)[Ge5O10] and [(CH3)4N][Ge10O20OH], Two Novel Porous Germanates. Chemistry Letters, 2004, 33, 74-75.	0.7	17
151	Millimeter-sized sodalite single crystals grown under high-temperature, high-pressure hydrothermal conditions. Microporous and Mesoporous Materials, 2001, 42, 229-234.	2.2	16
152	Synthesis of Mesoporous Silica Thin Film with Three-dimensional Accessible Pore Structure. Chemistry Letters, 2004, 33, 1078-1079.	0.7	16
153	Versatile Fabrication of Distorted Cubic Mesoporous Silica Film Using CTAB Together with a Hydrophobic Organic Additive. Journal of Physical Chemistry B, 2006, 110, 9751-9754.	1.2	16
154	Synthesis and characterization of aluminium containing CIT-1 and their structureâ€“property relationship to hydrocarbon trap performance. Microporous and Mesoporous Materials, 2010, 129, 126-135.	2.2	16
155	Organic-free synthesis of zincoaluminosilicate zeolites from homogeneous gels prepared by a co-precipitation method. Dalton Transactions, 2017, 46, 10837-10846.	1.6	16
156	Temperature-controlled, two-stage synthesis of ZSM-5 zeolite nanoparticles with Al atoms tetrahedrally coordinated in the framework. Microporous and Mesoporous Materials, 2018, 270, 200-203.	2.2	16
157	Ultrafast surfactant-templating of *BEA zeolite: An efficient catalyst for the cracking of polyethylene pyrolysis vapours. Chemical Engineering Journal, 2021, 412, 128566.	6.6	16
158	Nanoparticle Vesicles with Controllable Surface Topographies through Block Copolymer-Mediated Self-Assembly of Silica Nanospheres. Langmuir, 2015, 31, 13214-13220.	1.6	15
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