Tatsuya Okubo

List of Publications by Year in Descending Order

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	Reduction of crystal size of silicalite-1 synthesized in fluoride-containing media via multi-stage heating with intermediate stirring. *Journal of the Ceramic Society of Japan*, **2022**, 130, 187-194	1	0
260	Broadening synthetic scope of SSZ-39 zeolite for NH3-SCR: A fast and direct route from amorphous starting materials. *Microporous and Mesoporous Materials*, **2022**, 330, 111583	5.3	1
259	No more trial and error for zeolites. *Science*, **2021**, 374, 257-258	33.3	1
258	Ultrafast surfactant-templating of *BEA zeolite: An efficient catalyst for the cracking of polyethylene pyrolysis vapours. *Chemical Engineering Journal*, **2021**, 412, 128566	14.7	5
257	Ultrafast and continuous-flow synthesis of AFX zeolite via interzeolite conversion of FAU zeolite. *Reaction Chemistry and Engineering*, **2021**, 6, 74-81	4.9	2
256	Synthetic and natural MOR zeolites as high-capacity adsorbents for the removal of nitrous oxide. *Chemical Communications*, **2021**, 57, 1312-1315	5.8	5
255	Tracking the crystallization behavior of high-silica FAU during AEI-type zeolite synthesis using acid treated FAU-type zeolite.. *RSC Advances*, **2021**, 11, 23082-23089	3.7	2
254	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	16.4	11
253	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	
252	Recent progress in the improvement of hydrothermal stability of zeolites. *Chemical Science*, **2021**, 12, 7677-7695	9.4	12
251	Understanding the Nucleation and Crystal Growth of Zeolites: A Case Study on the Crystallization of ZSM-5 from a Hydrogel System Under Ultrasonication. *Journal of Physical Chemistry C*, **2020**, 124, 11516-11524	3.8	7
250	Superior Ion-exchange Property of Amorphous Aluminosilicates Prepared by a Co-precipitation Method. *Chemistry - an Asian Journal*, **2020**, 15, 2029-2034	4.5	1
249	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	16.4	24
248	Extremely Stable Zeolites Developed via Designed Liquid-Mediated Treatment. *Journal of the American Chemical Society*, **2020**, 142, 3931-3938	16.4	23
247	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
246	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
245	Unique crystallization behavior in zeolite synthesis under external high pressures. *Chemical Communications*, **2020**, 56, 2811-2814	5.8	8

244	Rapid Synthesis of Hydrothermally Stable ZSM-5 in the Presence of 1-Butanol. *Chemistry Letters*, **2020**, 49, 1006-1008	1.7	2
243	Comparative study of direct methylation of benzene with methane on cobalt-exchanged ZSM-5 and ZSM-11 zeolites. *Applied Catalysis A: General*, **2020**, 601, 117661	5.1	5
242	Testing the limits of zeolite structural flexibility: ultrafast introduction of mesoporosity in zeolites. *Journal of Materials Chemistry A*, **2020**, 8, 735-742	13	14
241	Optimized ultrafast flow synthesis of CON-type zeolite and improvement of its catalytic properties. *Reaction Chemistry and Engineering*, **2020**, 5, 2260-2266	4.9	3
240	Understanding the high hydrothermal stability and NH3-SCR activity of the fast-synthesized ERI zeolite. *Journal of Catalysis*, **2020**, 391, 346-356	7.3	11
239	Dense Integration of Stable Aromatic Radicals within the Two-Dimensional Interlayer Space of Clay Minerals via Clay-Catalyzed Deamination of Arylammoniums. *Chemistry of Materials*, **2020**, 32, 9008-9015	9.6	2
238	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. *Angewandte Chemie*, **2020**, 132, 19837-19842	3.6	1
237	Toward Efficient Synthesis of Chiral Zeolites: A Rational Strategy for Fluoride-Free Synthesis of STW-Type Zeolite. *Angewandte Chemie - International Edition*, **2020**, 59, 20099-20103	16.4	5
236	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
235	Rational Manipulation of Stacking Arrangements in Three-Dimensional Zeolites Built from Two-Dimensional Zeolitic Nanosheets. *Angewandte Chemie*, **2020**, 132, 20106-20111	3.6	
234	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	
233	Rational Manipulation of Stacking Arrangements in Three-Dimensional Zeolites Built from Two-Dimensional Zeolitic Nanosheets. *Angewandte Chemie - International Edition*, **2020**, 59, 19934-19939	16.4	1
232	Linking synthesis and structure descriptors from a large collection of synthetic records of zeolite materials. *Nature Communications*, **2019**, 10, 4459	17.4	41
231	Insights into the ion-exchange properties of Zn(ii)-incorporated MOR zeolites for the capture of multivalent cations. *Physical Chemistry Chemical Physics*, **2019**, 21, 4015-4021	3.6	8
230	Continuous flow synthesis of ordered porous materials: from zeolites to metal–organic frameworks and mesoporous silica. *Reaction Chemistry and Engineering*, **2019**, 4, 1699-1720	4.9	30
229	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	3.7	10
228	Role of sodium cation during aging process in the synthesis of LEV-type zeolite. *Microporous and Mesoporous Materials*, **2019**, 284, 82-89	5.3	6
227	Tracking the rearrangement of atomic configurations during the conversion of zeolite to zeolite. *Chemical Science*, **2019**, 10, 8533-8540	9.4	21

226	Crucial Factors for Seed-Directed Synthesis of CON-type Aluminoborosilicate Zeolites Using Tetraethylammonium. *Crystal Growth and Design*, **2019**, 19, 5283-5291	3.5	4
225	Bridging the Gap between Structurally Distinct 2D Lamellar Zeolitic Precursors through a 3D Germanosilicate Intermediate. *Angewandte Chemie - International Edition*, **2019**, 58, 14529-14533	16.4	4
224	Zeolite Crystallization Triggered by Intermediate Stirring. *Journal of Physical Chemistry C*, **2019**, 123, 20304-20313	3.8	11
223	Bioinspired Approach to Silica Nanoparticle Synthesis Using Amine-Containing Block Copoly(vinyl ethers): Realizing Controlled Anisotropy. *Langmuir*, **2019**, 35, 10846-10854	4	4
222	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	3.8	16
221	Ultrafast synthesis of zeolites: breakthrough, progress and perspective. *Inorganic Chemistry Frontiers*, **2019**, 6, 14-31	6.8	43
220	Bridging the Gap between Structurally Distinct 2D Lamellar Zeolitic Precursors through a 3D Germanosilicate Intermediate. *Angewandte Chemie*, **2019**, 131, 14671-14675	3.6	1
219	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	5.3	16
218	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
217	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
216	Ultrafast synthesis of *BEA zeolite without the aid of aging pretreatment. *Microporous and Mesoporous Materials*, **2018**, 268, 1-8	5.3	19
215	Formation of a dense non-crystalline layer on the surface of zeolite Y crystals under high-temperature steaming conditions. *Microporous and Mesoporous Materials*, **2018**, 268, 77-83	5.3	9
214	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents. *Angewandte Chemie - International Edition*, **2018**, 57, 3742-3746	16.4	33
213	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	5.1	29
212	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	
211	Implementation Analysis of Bagasse Power Plants Considering Technology Options on Sugarcane Cultivars and Power Plants. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 113-122	0.4	5
210	Fast Synthesis of SSZ-24: A Pure Silica Zeolite with AFI Framework. *Chemistry Letters*, **2018**, 47, 654-656	1.7	7
209	Resolving the Framework Position of Organic Structure-Directing Agents in Hierarchical Zeolites via Polarized Stimulated Raman Scattering. *Journal of Physical Chemistry Letters*, **2018**, 9, 1778-1782	6.4	10

208	Preparation of nanosized SSZ-13 zeolite with enhanced hydrothermal stability by a two-stage synthetic method. *Microporous and Mesoporous Materials*, **2018**, 255, 192-199	5.3	34
207	Seed-directed synthesis of zincoaluminosilicate MSE-type zeolites using co-precipitated gels with tetraethylammonium hydroxide as a simple organic structure directing agent. *Microporous and Mesoporous Materials*, **2018**, 257, 272-280	5.3	4
206	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
205	Synthesis of New Microporous Zincosilicates with CHA Zeolite Topology as Efficient Platforms for Ion-Exchange of Divalent Cations. *Chemistry - A European Journal*, **2018**, 24, 808-812	4.8	9
204	Addressing the viscosity challenge: ultrafast, stable-flow synthesis of zeolites with an emulsion method. *Reaction Chemistry and Engineering*, **2018**, 3, 844-848	4.9	7
203	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	5.3	11
202	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents. *Angewandte Chemie*, **2018**, 130, 3804-3808	3.6	8
201	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	
200	Increasing the ion-exchange capacity of MFI zeolites by introducing Zn to aluminosilicate frameworks. *Dalton Transactions*, **2018**, 47, 9546-9553	4.3	5
199	Crystallization of a Novel Germanosilicate ECNU-16 Provides Insights into the Space-Filling Effect on Zeolite Crystal Symmetry. *Chemistry - A European Journal*, **2018**, 24, 9247-9253	4.8	4
198	Seed-Assisted Synthesis of MWW-Type Zeolite with Organic Structure-Directing Agent-Free Na-Aluminosilicate Gel System. *Chemistry - an Asian Journal*, **2017**, 12, 530-542	4.5	21
197	Two-Stage Crystallization of Meso- and Macroporous MFI and MEL Zeolites Using Tributylamine-Derived Diquaternary Ammonium Cations as Organic Structure-Directing Agents. *Bulletin of the Chemical Society of Japan*, **2017**, 90, 586-594	5.1	3
196	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
195	Ultrafast synthesis of high-silica erionite zeolites with improved hydrothermal stability. *Chemical Communications*, **2017**, 53, 6796-6799	5.8	20
194	Ultrafast, OSDA-free synthesis of mordenite zeolite. *CrystEngComm*, **2017**, 19, 632-640	3.3	25
193	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	3.8	22
192	R□ktitelbild: Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q4(nAl) Si Speciation (Angew. Chem. 43/2017). *Angewandte Chemie*, **2017**, 129, 13718-13718	3.6	
191	Zeolite and Zeolite-Like Materials **2017**, 97-119		6

190	Seed-directed Synthesis of CON-type Zeolite Using Tetraethylammonium Hydroxide as a Simple Organic Structure-directing Agent. *Chemistry Letters*, **2017**, 46, 1419-1421	1.7	6
189	Organic-free synthesis of zincoaluminosilicate zeolites from homogeneous gels prepared by a co-precipitation method. *Dalton Transactions*, **2017**, 46, 10837-10846	4.3	12
188	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
187	Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q (nAl) Si Speciation. *Angewandte Chemie - International Edition*, **2017**, 56, 13366-13371	16.4	42
186	Preparation and Gas Permeation Properties of Fluorine-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	9.5	10
185	Simulation-based analysis for operational decision support on scheduling in sugar crystallization considering quality of molasses and syrup. *Computer Aided Chemical Engineering*, **2017**, 40, 1807-1812	0.6	3
184	Activity and Data Models of Planning Processes for Industrial Symbiosis in Rural Areas. *Kagaku Kogaku Ronbunshu*, **2017**, 43, 347-357	0.4	5
183	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	9.6	33
182	Surfactant-free synthesis of hollow mesoporous organosilica nanoparticles with controllable particle sizes and diversified organic moieties. *RSC Advances*, **2016**, 6, 90435-90445	3.7	10
181	Pioneering In Situ Recrystallization during Bead Milling: A Top-down Approach to Prepare Zeolite A Nanocrystals. *Scientific Reports*, **2016**, 6, 29210	4.9	10
180	Ultrafast and Continuous Flow Synthesis of Silicoaluminophosphates. *Chemistry of Materials*, **2016**, 28, 4840-4847	9.6	21
179	Tailoring the Subnano Silica Structure via Fluorine Doping for Development of Highly Permeable CO2 Separation Membranes. *ChemNanoMat*, **2016**, 2, 264-267	3.5	16
178	Downsizing the K-CHA zeolite by a postmilling-recrystallization method for enhanced base-catalytic performance. *New Journal of Chemistry*, **2016**, 40, 492-496	3.6	10
177	Mesoporogen-free synthesis of hierarchically porous ZSM-5 below 100 °C. *Microporous and Mesoporous Materials*, **2016**, 226, 344-352	5.3	23
176	Ultrafast synthesis of silicalite-1 using a tubular reactor with a feature of rapid heating. *Microporous and Mesoporous Materials*, **2016**, 223, 140-144	5.3	32
175	Integrated modeling of agricultural and industrial processes within life cycle design for environment. *Computer Aided Chemical Engineering*, **2016**, 38, 1947-1952	0.6	7
174	Super Hydrocarbon Reformer Trap for the Complete Oxidation of Toluene Using Iron-Exchanged Zeolite with a Low Silicon/Aluminum Ratio. *ChemCatChem*, **2016**, 8, 2516-2524	5.2	11
173	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	11.5	45

172	A photoresponsive azobenzene-bridged cubic silsesquioxane network. *Journal of Sol-Gel Science and Technology*, **2016**, 79, 262-269	2.3	7
171	Downsizing AFX Zeolite Crystals to Nanoscale by a Postmilling Recrystallization Method. *Crystal Growth and Design*, **2016**, 16, 3389-3394	3.5	23
170	Energy Analysis of Aluminosilicate Zeolites with Comprehensive Ranges of Framework Topologies, Chemical Compositions, and Aluminum Distributions. *Journal of the American Chemical Society*, **2016**, 138, 6184-93	16.4	58
169	Highly nanoporous silicas with pore apertures near the boundary between micro- and mesopores through an orthogonal self-assembly approach. *Chemical Communications*, **2015**, 51, 10718-21	5.8	3
168	A top-down methodology for ultrafast tuning of nanosized zeolites. *Chemical Communications*, **2015**, 51, 12567-70	5.8	39
167	Ultratrace Measurement of Acetone from Skin Using Zeolite: Toward Development of a Wearable Monitor of Fat Metabolism. *Analytical Chemistry*, **2015**, 87, 7588-94	7.8	22
166	Preparation and characterization of Silicalite-1 zeolites with high manganese contents from mechanochemically pretreated reactants. *Journal of Materials Chemistry A*, **2015**, 3, 6215-6222	13	17
165	Widening Synthesis Bottlenecks: Realization of Ultrafast and Continuous-Flow Synthesis of High-Silica Zeolite SSZ-13 for NOx Removal. *Angewandte Chemie - International Edition*, **2015**, 54, 5683-7	16.4	96
164	Photoinduced Bending of Self-Assembled Azobenzene-Siloxane Hybrid. *Journal of the American Chemical Society*, **2015**, 137, 15434-40	16.4	88
163	Nanoparticle Vesicles with Controllable Surface Topographies through Block Copolymer-Mediated Self-Assembly of Silica Nanospheres. *Langmuir*, **2015**, 31, 13214-20	4	12
162	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, 14533-44	16.4	111
161	Remarkable enhancement of catalytic activity and selectivity of MSE-type zeolite by post-synthetic modification. *Catalysis Today*, **2015**, 243, 85-91	5.3	16
160	Synthesis of (Silico)aluminophosphate Molecular Sieves Using an Alkanolamine as a Novel Organic Structure-directing Agent. *Chemistry Letters*, **2015**, 44, 1300-1302	1.7	0
159	Crosslinking-assisted Stabilization of Beaded Nanofibers from Elastin-like Double Hydrophobic Polypeptides. *Chemistry Letters*, **2015**, 44, 530-532	1.7	4
158	Sn-Beta Zeolite Catalysts with High Sn Contents Prepared from Sn–Si Mixed Oxide Composites. *ChemNanoMat*, **2015**, 1, 155-158	3.5	22
157	Widening Synthesis Bottlenecks: Realization of Ultrafast and Continuous-Flow Synthesis of High-Silica Zeolite SSZ-13 for NOx Removal. *Angewandte Chemie*, **2015**, 127, 5775-5779	3.6	22
156	Organic structure-directing agent-free synthesis of NES-type zeolites using EU-1 seed crystals. *Microporous and Mesoporous Materials*, **2015**, 215, 191-198	5.3	15
155	Dendritic silica nanoparticles synthesized by a block copolymer-directed seed-regrowth approach. *Langmuir*, **2015**, 31, 1610-4	4	7

154	Ring assembly of silica nanospheres mediated by amphiphilic block copolymers with oxyethylene moieties. *Polymer Journal*, **2015**, 47, 128-135	2.7	9
153	Preparation of core-shell mesoporous silica nanoparticles with bimodal pore structures by regrowth method. *Journal of Colloid and Interface Science*, **2015**, 448, 57-64	9.3	17
152	Seed-directed, rapid synthesis of MAZ-type zeolites without using organic structure-directing agent. *Microporous and Mesoporous Materials*, **2014**, 186, 21-28	5.3	23
151	Stabilization of bare divalent Fe(II) cations in Al-rich beta zeolites for superior NO adsorption. *Journal of Catalysis*, **2014**, 315, 1-5	7.3	22
150	One-minute synthesis of crystalline microporous aluminophosphate (AlPO4-5) by combining fast heating with a seed-assisted method. *Chemical Communications*, **2014**, 50, 2526-8	5.8	50
149	Synthesis of string-bean-like anisotropic titania nanoparticles with basic amino acids. *RSC Advances*, **2014**, 4, 9233	3.7	7
148	Ultrafast Continuous-Flow Synthesis of Crystalline Microporous Aluminophosphate AlPO4-5. *Chemistry of Materials*, **2014**, 26, 2327-2331	9.6	44
147	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
146	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
145	Effective Fabrication of Catalysts from Large-Pore, Multidimensional Zeolites Synthesized without Using Organic Structure-Directing Agents. *Chemistry of Materials*, **2014**, 26, 1250-1259	9.6	59
144	Azobenzene–siloxane hybrids with lamellar structures from bridge-type alkoxysilyl precursors. *RSC Advances*, **2014**, 4, 25319-25325	3.7	12
143	Synthesis of MCM-41 with High Manganese Content by Mechanochemical Pretreatment of the Starting Materials. *Chemistry Letters*, **2014**, 43, 1346-1348	1.7	3
142	Amino Acid-assisted One-dimensional Assembly of Semiconducting Metal Oxide Nanoparticles in Aqueous Alcohol Media. *Chemistry Letters*, **2014**, 43, 934-935	1.7	2
141	Carbonate-Promoted Catalytic Activity of Potassium Cations for Soot Combustion by Gaseous Oxygen. *ChemCatChem*, **2014**, 6, 479-484	5.2	24
140	Cryogenic Hydrogen Adsorption onto H-, Li-, Na-Exchanged Zeolites with Various Si/Al Ratios. *Adsorption Science and Technology*, **2014**, 32, 413-423	3.6	2
139	Progress in seed-assisted synthesis of zeolites without using organic structure-directing agents. *Microporous and Mesoporous Materials*, **2014**, 189, 22-30	5.3	131
138	Formation of Hierarchically Organized Zeolites by Sequential Intergrowth. *Angewandte Chemie*, **2013**, 125, 3439-3443	3.6	38
137	Synthesis of hydrophobic siliceous ferrierite by using pyridine and sodium fluoride. *Microporous and Mesoporous Materials*, **2013**, 181, 154-159	5.3	20

136	Facile synthesis of hydroxy-modified MOF-5 for improving the adsorption capacity of hydrogen by lithium doping. *Chemistry - an Asian Journal*, **2013**, 8, 2801-6	4.5	10
135	Hierarchical porous silica via solid-phase hydrolysis/polycondensation of cubic siloxane-based molecular units. *Journal of Materials Chemistry A*, **2013**, 1, 671-676	13	8
134	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
133	A new synthesis of well-dispersed, core-shell Ag@SiO mesoporous nanoparticles using amino acids and sugars. *Journal of Materials Chemistry B*, **2013**, 1, 2451-2454	7.3	30
132	Formation of hierarchically organized zeolites by sequential intergrowth. *Angewandte Chemie - International Edition*, **2013**, 52, 3355-9	16.4	112
131	Diol-linked microporous networks of cubic siloxane cages. *Chemistry - A European Journal*, **2013**, 19, 1700-5	4.5	21
130	Seed-assisted, one-pot synthesis of hollow zeolite beta without using organic structure-directing agents. *Chemistry - an Asian Journal*, **2013**, 8, 1419-27	4.5	32
129	Synthesis of ordered photoresponsive azobenzene–siloxane hybrids by self-assembly. *Journal of Materials Chemistry C*, **2013**, 1, 6989	7.1	19
128	Facile Synthesis of Well-dispersed Hollow Mesoporous Silica Nanoparticles Using Iron Oxide Nanoparticles as Template. *Chemistry Letters*, **2013**, 42, 316-317	1.7	10
127	Sodalite Layer as a Protective Barrier for Diesel Particulate Filters. *Bulletin of the Chemical Society of Japan*, **2013**, 86, 363-369	5.1	
126	Effect of Base Molecules on One-dimensional Assembly of Silica Nanospheres Mediated by a Block Copolymer. *Chemistry Letters*, **2013**, 42, 481-482	1.7	2
125	Synthesis of pure-silica ZSM-48 zeolite under mild hydrothermal condition with conventional amphiphilic cation by tuning the reactant gel composition. *Journal of the Ceramic Society of Japan*, **2013**, 121, 575-577	1	5
124	Seed-assisted, OSDA-free synthesis of MTW-type zeolite and Green MTW from sodium aluminosilicate gel systems. *Microporous and Mesoporous Materials*, **2012**, 147, 149-156	5.3	90
123	Effect of organic groups on hydrogen adsorption properties of periodic mesoporous organosilicas. *Microporous and Mesoporous Materials*, **2012**, 147, 194-199	5.3	19
122	Plate-like precursors formed in crystallization process of ferrierite from (Na, K)-aluminosilicate system. *Microporous and Mesoporous Materials*, **2012**, 158, 204-208	5.3	17
121	Nepheline Synthesized from Sodalite as Diesel-Soot Combustion Catalyst: Structure–Property Relationship Study for an Enhanced Water Tolerance. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 527-532	5.1	5
120	Synthesis of AlPO-5 at Low Temperature by Controlling the Kinetics of Conversion of Aluminophosphate Phases. *Chemistry Letters*, **2012**, 41, 889-891	1.7	6
119	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	3.8	28

118	Biphasic synthesis of colloidal mesoporous silica nanoparticles using primary amine catalysts. *Journal of Colloid and Interface Science*, **2012**, 385, 41-7	9.3	25
117	OSDA-free synthesis of MTW-type zeolite from sodium aluminosilicate gels with zeolite beta seeds. *Microporous and Mesoporous Materials*, **2012**, 163, 282-290	5.3	59
116	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, 11542-9	16.4	226
115	Antibacterial Activity of Silver-Loaded Green Zeolites *European Journal of Inorganic Chemistry*, **2012**, 2012, 3398-3402	2.3	26
114	Porous siloxane-organic hybrid with ultrahigh surface area through simultaneous polymerization-destruction of functionalized cubic siloxane cages. *Journal of the American Chemical Society*, **2011**, 133, 13832-5	16.4	105
113	Two-phase synthesis of monodisperse silica nanospheres with amines or ammonia catalyst and their controlled self-assembly. *ACS Applied Materials & Interfaces*, **2011**, 3, 1538-44	9.5	86
112	A combined top-down and bottom-up approach to fabricate silica films with bimodal porosity. *Materials Letters*, **2011**, 65, 828-831	3.3	8
111	Crystallization Behavior of Zeolite Beta in OSDA-Free, Seed-Assisted Synthesis. *Journal of Physical Chemistry C*, **2011**, 115, 744-750	3.8	153
110	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
109	Investigation on specific adsorption of hydrogen on lithium-doped mesoporous silica. *Adsorption*, **2011**, 17, 211-218	2.6	8
108	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
107	Zeolite Surface As a Catalyst Support Material for Synthesis of Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2011**, 115, 24231-24237	3.8	17
106	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	3.8	25
105	Location of Alkali Ions and their Relevance to Crystallization of Low Silica X Zeolite. *Crystal Growth and Design*, **2010**, 10, 3471-3479	3.5	36
104	Mesoporous Silica Nanoparticles with Remarkable Stability and Dispersibility for Antireflective Coatings. *Chemistry of Materials*, **2010**, 22, 12-14	9.6	128
103	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	9.6	77
102	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
101	Synthesis of MTW-type Zeolites in the Absence of Organic Structure-directing Agent. *Chemistry Letters*, **2010**, 39, 730-731	1.7	61

100	Direct hydrothermal synthesis of hierarchically porous siliceous zeolite by using alkoxysilylated nonionic surfactant. *Langmuir*, **2010**, 26, 2731-5	4	45
99	Critical factors in the seed-assisted synthesis of zeolite beta and "green beta" from OSDA-free Na+-aluminosilicate gels. *Chemistry - an Asian Journal*, **2010**, 5, 2182-91	4.5	141
98	Supported and Free-Standing Sulfonic Acid Functionalized Mesostructured Silica Films with High Proton Conductivity. *European Journal of Inorganic Chemistry*, **2010**, 2010, 3993-3999	2.3	10
97	Hybrid porous materials with high surface area derived from bromophenylethenyl-functionalized cubic siloxane-based building units. *Chemistry - A European Journal*, **2010**, 16, 6006-14	4.8	87
96	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	3.3	14
95	??????????????. *Journal of the Japan Society of Colour Material*, **2010**, 83, 276-281	0	
94	Alcohol washing as a way to stabilize the anatase phase of nanostructured titania through controlling particle packing. *Journal of Materials Science*, **2009**, 44, 5944-5948	4.3	7
93	Cooperative Effect of Sodium and Potassium Cations on Synthesis of Ferrierite. *Topics in Catalysis*, **2009**, 52, 67-74	2.3	32
92	Preparation of silica/carbon composites with uniform and well-ordered mesopores by esterification method. *Microporous and Mesoporous Materials*, **2009**, 124, 123-130	5.3	18
91	Photoluminescence sidebands of carbon nanotubes below the bright singlet excitonic levels. *Physical Review B*, **2009**, 79,	3.3	46
90	Mechanism of Formation of Uniform-Sized Silica Nanospheres Catalyzed by Basic Amino Acids. *Chemistry of Materials*, **2009**, 21, 3719-3729	9.6	145
89	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	1	18
88	Structural Control of Phenylene-bridged Periodic Mesoporous Organosilica with Organic Additives. *Chemistry Letters*, **2009**, 38, 1026-1027	1.7	3
87	Silica sodalite without occluded organic matters by topotactic conversion of lamellar precursor. *Journal of the American Chemical Society*, **2008**, 130, 15780-1	16.4	88
86	Microwave-induced synthesis of highly dispersed gold nanoparticles within the pore channels of mesoporous silica. *Journal of Solid State Chemistry*, **2008**, 181, 957-963	3.3	37
85	Incorporation process of Ti species into the framework of MFI type zeolite. *Microporous and Mesoporous Materials*, **2008**, 112, 202-210	5.3	34
84	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	5.3	27
83	CONTROL OF NANOSTRUCTURE OF MATERIALS **2008**, 177-265		

82	TPA+-Mediated Conversion of Silicon Wafer into Preferentially-Oriented MFI Zeolite Film under Steaming. *Chemistry of Materials*, **2007**, 19, 4120-4122	9.6	55
81	Morphology Control of Mesoporous Silica Particles. *Journal of Physical Chemistry C*, **2007**, 111, 11168-11173	3.3	51
80	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	9.6	80
79	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
78	Crystal structures and spectroscopic properties of a new zinc phosphite cluster and an unexpected chainlike zinc phosphate obtained by hydrothermal reactions. *Journal of Solid State Chemistry*, **2007** , 180, 981-987	3.3	8
77	Organic-inorganic mesoporous nanocarriers integrated with biogenic ligands. *Small*, **2007**, 3, 1740-4	11	104
76	Photoelectric properties of nano-ZnO fabricated in mesoporous silica film. *Materials Letters*, **2007**, 61, 3179-3184	3.3	15
75	Hydrocarbon Reformer Trap by Use of Transition Metal Oxide-Incorporated Beta Zeolites. *Catalysis Letters*, **2007**, 118, 72-78	2.8	21
74	Synthesis of a three-dimensional cubic mesoporous silica monolith employing an organic additive through an evaporation-induced self-assembly process. *Langmuir*, **2006**, 22, 6391-7	4	22
73	Versatile fabrication of distorted cubic mesoporous silica film using CTAB together with a hydrophobic organic additive. *Journal of Physical Chemistry B*, **2006**, 110, 9751-4	3.4	16
72	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, 224-7	3.6	81
71	In situ observation of homogeneous nucleation of nanosized zeolite A. *Physical Chemistry Chemical Physics*, **2006**, 8, 1335-9	3.6	28
70	Periodic arrangement of silica nanospheres assisted by amino acids. *Journal of the American Chemical Society*, **2006**, 128, 13664-5	16.4	358
69	Synthesis and Characterization of a New Three-dimensional Organically Templated Nickel-Zinc Phosphate. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2006**, 632, 465-468	1.3	1
68	A comparative study of zeolites SSZ-33 and MCM-68 for hydrocarbon trap applications. *Microporous and Mesoporous Materials*, **2006**, 96, 210-215	5.3	53
67	A novel layered bimetallic phosphite intercalating with organic amines: Synthesis and characterization of Co(H2O)4Zn4(HPO3)6□C2N2H10. *Journal of Solid State Chemistry*, **2006**, 179, 723-728	3.3	17
66	Phase selection of FAU and LTA zeolites by controlling synthesis parameters. *Microporous and Mesoporous Materials*, **2006**, 89, 227-234	5.3	53
65	Phase and orientation control of mesoporous silica thin film via phase transformation. *Thin Solid Films*, **2006**, 495, 11-17	2.2	22

64	Phase transformation in mesoporous silica films induced by the degradation of organic moiety. *Journal of Porous Materials*, **2006**, 13, 303-306	2.4	2
63	Fabrication of Mesoporous Silica Films via a Novel Route Providing a Wide Processing Time Window. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4156-4160	3.9	6
62	Characterization of ESR active species on lithium chloride-modified mesoporous silica. *Journal of Physical Chemistry B*, **2005**, 109, 8574-9	3.4	10
61	Effects of Particle Size on the Monolayer Structure of Nanoparticles Formed via a Wet-Coating Process. *Journal of Chemical Engineering of Japan*, **2005**, 38, 564-570	0.8	6
60	Hydrothermal Synthesis and Characterization of Zeolites. *Chemistry Letters*, **2005**, 34, 276-281	1.7	60
59	Self-assembly of water-dispersed gold nanoparticles stabilized by a thiolated glycol derivative. *Journal of Nanoparticle Research*, **2005**, 7, 187-193	2.3	13
58	Crystal Growth Behavior of Zeolites Elucidated by Atomic Force Microscopy. *Journal of Chemical Engineering of Japan*, **2004**, 37, 669-674	0.8	11
57	Multiscale Simulation of Two-Dimensional Self-Organization of Nanoparticles in Liquid Film. *Japanese Journal of Applied Physics*, **2004**, 43, 4434-4442	1.4	28
56	Spontaneous formation of large-area monolayers of well-ordered nanoparticles via a wet-coating process. *Journal of Nanoparticle Research*, **2004**, 6, 479-487	2.3	21
55	[Ge9O14(OH)12](C6N2H16)2□H2O: A Novel Germanate with GeO Helical Chains Formed by Hydrothermal Synthesis that Can Separate trans and cis Isomers in Situ. *European Journal of Inorganic Chemistry*, **2004**, 2004, 4547-4549	2.3	9
54	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	5.3	17
53	Studies on mesoporous silica films synthesized using F127, a triblock co-polymer. *Microporous and Mesoporous Materials*, **2004**, 75, 51-59	5.3	30
52	Morphology and chemical state of Co-Mo catalysts for growth of single-walled carbon nanotubes vertically aligned on quartz substrates. *Journal of Catalysis*, **2004**, 225, 230-239	7.3	124
51	Crystal growth of faujasite observed by atomic force microscopy. *Microporous and Mesoporous Materials*, **2004**, 70, 7-13	5.3	47
50	SSZ-33: A Promising Material for Use as a Hydrocarbon Trap. *Journal of Physical Chemistry B*, **2004**, 108, 13059-13061	3.4	52
49	Investigation on the drying induced phase transformation of mesoporous silica; a comprehensive understanding toward mesophase determination. *Journal of the American Chemical Society*, **2004**, 126, 10937-44	16.4	51
48	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
47	Synthesis of Mesoporous Silica Thin Film with Three-dimensional Accessible Pore Structure. *Chemistry Letters*, **2004**, 33, 1078-1079	1.7	16

46	Determination of Silica Mesophases by Controlling Silicate Condensation in Liquid Phase. *Chemistry Letters*, **2004**, 33, 734-735	1.7	6
45	The Photocurrent of Dye-Sensitized Solar Cells Enhanced by the Surface Plasmon Resonance. *Journal of Chemical Engineering of Japan*, **2004**, 37, 645-649	0.8	48
44	Multiscale Simulation Method for Self-Organization of Colloidal Nanoparticles during Drying. *880-02 Nihon Kikai Gakkai Ronbunsh Transactions of the Japan Society of Mechanical Engineers Series B B-hen*, **2004**, 70, 2258-2264		1
43	Overview of Nanoparticle Array Formation by Wet Coating. *Journal of Nanoparticle Research*, **2003**, 5, 5-15	2.3	116
42	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	2.3	30
41	Formation process of three-dimensional arrays from silica spheres. *AICHE Journal*, **2003**, 49, 1293-1299	3.6	4
40	Single-walled carbon nanotubes catalytically grown from mesoporous silica thin film. *Chemical Physics Letters*, **2003**, 375, 393-398	2.5	47
39	Aluminosilicate Species in the Hydrogel Phase Formed during the Aging Process for the Crystallization of FAU Zeolite. *Chemistry of Materials*, **2003**, 15, 2661-2667	9.6	118
38	Intrazeolite Nanostructure of Nd(III) Complex Giving Strong Near-Infrared Luminescence. *Journal of Physical Chemistry B*, **2003**, 107, 11302-11306	3.4	35
37	Heteroepitaxial growth of a zeolite film with a patterned surface-texture. *Journal of the American Chemical Society*, **2003**, 125, 12388-9	16.4	46
36	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
35	Spectral narrowing of the emission from rhodamine 6G infiltrated in synthetic opals enhanced by the surface plasmon resonance. *Applied Physics Letters*, **2003**, 83, 2536-2538	3.4	4
34	Synthesis of a new molecular sieve using DABCO-based structure-directing agent. *Catalysis Today*, **2002**, 74, 271-279	5.3	13
33	Gas sensing with zeolite-coated quartz crystal microbalances principal component analysis approach. *Sensors and Actuators B: Chemical*, **2002**, 86, 26-33	8.5	66
32	Crystal Phases of TiO2 Ultrafine Particles Prepared by Laser Ablation of Solid Rods. *Journal of Nanoparticle Research*, **2002**, 4, 215-219	2.3	20
31	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		40
30	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	2.9	41
29	An organic functional group introduced to Si(1 1 1) via silicon?carbon bond: a liquid-phase approach. *Applied Surface Science*, **2001**, 171, 252-256	6.7	30

28	Millimeter-sized sodalite single crystals grown under high-temperature, high-pressure hydrothermal conditions. *Microporous and Mesoporous Materials*, **2001**, 42, 229-234	5.3	14
27	Heteroepitaxial Growth of a Zeolite. *Angewandte Chemie*, **2001**, 113, 1103-1105	3.6	10
26	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
25	Synthesis of Hydrophobic Molecular Sieves by Hydrothermal Treatment with Acetic Acid. *Chemistry of Materials*, **2001**, 13, 1041-1050	9.6	43
24	Evidence of 29Si NMR paramagnetic shifts in rare-earth zeolite LSX. *Chemical Communications*, **2001**, 2112-3	5.8	5
23	Synthesis of molecular sieves as environment conscious materials.. *Journal of Advanced Science*, **2001**, 13, 363-366	0	1
22	A New Microporous Silicate With 12-Ring Channels. *Materials Research Society Symposia Proceedings*, **2000**, 658, 6281		
21	Ionic conductivity of single-crystal ferrierite. *Microporous and Mesoporous Materials*, **2000**, 40, 283-288	5.3	21
20	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	16.4	136
19	GUS-1: a mordenite-like molecular sieve with the 12-ring channel of ZSM-12. *Chemical Communications*, **2000**, 2363-2364	5.8	18
18	Evolution of Pore Structure in Microporous Silica Membranes: Sol-Gel Procedures and Strategies. *Advanced Materials*, **1998**, 10, 249-252	24	32
17	Early stages of MFI film formation. *Microporous and Mesoporous Materials*, **1998**, 21, 325-332	5.3	29
16	Hydrothermal growth of millimeter-sized aluminosilicate sodalite single crystals in noble metal capsules. *Journal of Materials Research*, **1998**, 13, 891-895	2.5	10
15	Synthesis of Ultrafine .BETA.-SiC Particles from SiOx (x=0,1,2) Powders and C2H2.. *Journal of Chemical Engineering of Japan*, **1997**, 30, 662-668	0.8	1
14	Preparation of Supported Mesoporous Silica Layers in a Continuous Flow Cell. *Chemistry of Materials*, **1997**, 9, 1505-1507	9.6	110
13	Synthesis of SIC() ultrafine particles from Si, SiO, or SiO2 powder and CH4. *AICHE Journal*, **1997**, 43, 2650-2656	3.6	1
12	High-temperature catalyst supports and ceramic membranes: Metastability and particle packing. *AICHE Journal*, **1997**, 43, 2710-2714	3.6	20
11	Zeolite Sensor for Nitrogen Monoxide Detection at High Temperature. *Materials Research Society Symposia Proceedings*, **1996**, 454, 297		2

10	Cluster Formation by Laser Ablation of Zeolites. *Materials Research Society Symposia Proceedings*, **1996**, 457, 57		
9	Gas permeation of porous organic/inorganic hybrid membranes. *Journal of Sol-Gel Science and Technology*, **1995**, 5, 127-134	2.3	32
8	ZrO2 promoted with sulfate, iron and manganese: a solid superacid catalyst capable of low temperaturen-butane isomerization. *Catalysis Letters*, **1994**, 25, 21-28	2.8	86
7	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		27
6	Correlation between nucleation site density and residual diamond dust density in diamond film deposition. *Applied Physics Letters*, **1994**, 65, 1192-1194	3.4	35
5	Positive Temperature Coefficient of Resistivity in Ba1-xSrxPb1+yO3-8 Ceramics. *Journal of the American Ceramic Society*, **1993**, 76, 2053-2058	3.8	45
4	Densification of nanostructured titania assisted by a phase transformation. *Nature*, **1992**, 358, 48-51	50.4	292
3	Single gas permeation through porous glass modified with tetraethoxysilane. *AICHE Journal*, **1989**, 35, 845-848	3.6	54
2	Improvement of surface transport property by surface modification. *AICHE Journal*, **1988**, 34, 1031-1033	3.6	21
1	Surface diffusion on modified surface of porous glass.. *Journal of Chemical Engineering of Japan*, **1987**, 20, 590-597	0.8	17