Yasunori Oumi

List of Publications by Year in descending order

191 papers	4,734 citations	87888 38 h-index	144013 57 g-index
194 all docs	194 docs citations	194 times ranked	4505 citing authors

#	Article	IF	Citations
1	The Topotactic Conversion of a Novel Layered Silicate into a New Framework Zeolite. Angewandte Chemie - International Edition, 2004, 43, 4892-4896.	13.8	174
2	Nanoacorns:â€‰Anisotropically Phase-Segregated CoPd Sulfide Nanoparticles. Journal of the American Chemical Society, 2004, 126, 9914-9915.	13.7	171
3	Mesoporous materials prepared using coal fly ash as the silicon and aluminium source. Journal of Materials Chemistry, 2001, 11, 3285-3290.	6.7	150
4	Self-regenerative activity of Ni/Mg(Al)O catalysts with trace Ru during daily start-up and shut-down operation of CH4 steam reforming. Journal of Catalysis, 2007, 250, 299-312.	6.2	108
5	A DFT Study on Peroxo-Complex in Titanosilicate Catalyst:Â Hydrogen Peroxide Activation on Titanosilicalite-1 Catalyst and Reaction Mechanisms for Catalytic Olefin Epoxidation and for Hydroxylamine Formation from Ammonia. Journal of Physical Chemistry B, 2001, 105, 3493-3501.	2.6	101
6	Synthesis of LEV zeolite by interzeolite conversion method and its catalytic performance in ethanol to olefins reaction. Microporous and Mesoporous Materials, 2009, 122, 149-154.	4.4	101
7	Effects of noble metal-doping on Cu/ZnO/Al2O3 catalysts for waterâ€“gas shift reaction. Applied Catalysis A: General, 2008, 337, 48-57.	4.3	94
8	Hydrothermal conversion of FAU into âˆ—BEA zeolites. Microporous and Mesoporous Materials, 2006, 96, 72-78.	4.4	88
9	Conversion of ethanol to propylene over HZSM-5 type zeolites containing alkaline earth metals. Applied Catalysis A: General, 2010, 383, 89-95.	4.3	81
10	Synthesis of High-silica CHA Zeolite from FAU Zeolite in the Presence of Benzyltrimethylammonium Hydroxide. Chemistry Letters, 2008, 37, 908-909.	1.3	77
11	Characterization of AlSBA-15 prepared by post-synthesis alumination with trimethylaluminium. Journal of Materials Chemistry, 2001, 11, 1111-1115.	6.7	75
12	An Insight into the Process Involved in Hydrothermal Conversion of FAU toâ€‰*BEA Zeolite. Chemistry of Materials, 2008, 20, 4135-4141.	6.7	73
13	Promoting effect of Rh, Pd and Pt noble metals to the Ni/Mg(Al)O catalysts for the DSS-like operation in CH4 steam reforming. Applied Catalysis A: General, 2006, 310, 97-104.	4.3	71
14	Catalytic behavior of ternary Cu/ZnO/Al2O3 systems prepared by homogeneous precipitation in water-gas shift reaction. Journal of Molecular Catalysis A, 2007, 275, 130-138.	4.8	70
15	Self-activation and self-regenerative activity of trace Rh-doped Ni/Mg(Al)O catalysts in steam reforming of methane. Applied Catalysis A: General, 2007, 332, 98-109.	4.3	69
16	Synthesis of large mordenite crystals in the presence of aliphatic alcohol. Microporous and Mesoporous Materials, 2001, 46, 67-74.	4.4	65
17	Formation of Low-Symmetric 2D Superlattices of Gold Nanoparticles through Surface Modification by Acidâ”Base Interaction. Journal of the American Chemical Society, 2003, 125, 8708-8709.	13.7	62
18	Novel Synthesis of FePt Nanoparticles and Magnetic Properties of Their Self-assembled Superlattices. Chemistry Letters, 2004, 33, 130-131.	1.3	59

#	Article	IF	Citations
19	Direct synthesis of high-silica mordenite using seed crystals. Microporous and Mesoporous Materials, 2004, 76, 1-7.	4.4	56
20	In situ solvothermal growth of highly oriented Zr-based metal organic framework UiO-66 film with monocrystalline layer. CrystEngComm, 2015, 17, 3422-3425.	2.6	55
21	An Organoselective Zirconiumâ€Based Metalâ€“Organicâ€Framework UiOâ€66 Membrane for Pervaporation. European Journal of Inorganic Chemistry, 2017, 2017, 2094-2099.	2.0	53
22	Molecular dynamics simulation of enhanced oxygen ion diffusion in strained yttria-stabilized zirconia. Applied Physics Letters, 1998, 73, 1502-1504.	3.3	52
23	Amino acid containing amorphous calcium phosphates and the rapid transformation into apatite. Journal of Materials Chemistry, 2009, 19, 4906.	6.7	51
24	Hydrothermal conversion of FAU zeolite into RUT zeolite in TMAOH system. Microporous and Mesoporous Materials, 2008, 113, 56-63.	4.4	50
25	Surface modification of soft-templated ordered mesoporous carbon for electrochemical supercapacitors. Microporous and Mesoporous Materials, 2015, 217, 141-149.	4.4	50
26	Preparation and crystal structure of RUB-18 modified for synthesis of zeolite RWR by topotactic conversion. Microporous and Mesoporous Materials, 2008, 110, 488-500.	4.4	49
27	Atomic control of layer-by-layer epitaxial growth onSrTiO3(001):Molecular-dynamics simulations. Physical Review B, 1997, 56, 13535-13542.	3.2	48
28	Molecular dynamics simulation of iso- and n-butane permeations through a ZSM-5 type silicalite membrane. Journal of Membrane Science, 1997, 134, 127-139.	8.2	48
29	Promoting effect of Ru on Ni/Mg(Al)O catalysts in DSS-like operation of CH4 steam reforming. Catalysis Communications, 2007, 8, 447-451.	3.3	46
30	Diabetes Mellitus Aggravates Hemorrhagic Transformation after Ischemic Stroke via Mitochondrial Defects Leading to Endothelial Apoptosis. PLoS ONE, 2014, 9, e103818.	2.5	46
31	Synthesis and thermal stability of beta zeolite using ammonium fluoride. Microporous and Mesoporous Materials, 2006, 89, 88-95.	4.4	45
32	Structure Analysis of Si-Atom Pillared Lamellar Silicates Having Micropore Structure by Powder X-ray Diffraction. Journal of Physical Chemistry C, 2010, 114, 3466-3476.	3.1	45
33	Effect of pore size, aminosilane density and aminosilane molecular length on CO 2 adsorption performance in aminosilane modified mesoporous silica. Microporous and Mesoporous Materials, 2017, 246, 158-165.	4.4	43
34	Homoepitaxial growth mechanism of ZnO(0001): Molecular-dynamics simulations. Physical Review B, 2000, 61, 16187-16192.	3.2	42
35	Synthesis of high-silica offretite by the interzeolite conversion method. Materials Research Bulletin, 2010, 45, 646-650.	5.2	42
36	Partial oxidation of propane to synthesis gas over noble metals-promoted Ni/Mg(Al)O catalystsâ€”High activity of Ruâ€“Ni/Mg(Al)O catalyst. Applied Catalysis A: General, 2007, 318, 143-154.	4.3	41

#	Article	IF	Citations
37	Superior catalytic behavior of trace Pt-doped Ni/Mg(Al)O in methane reforming under daily start-up and shut-down operation. Applied Catalysis A: General, 2008, 350, 225-236.	4.3	41
38	The distribution of framework aluminum atoms and extraframework exchanged cations in faujasite as studied by molecular dynamics, NMR simulation, neutron diffraction simulation and computer graphics. Microporous Materials, 1996, 7, 235-242.	1.6	39
39	Partial oxidation of propane over Ru promoted Ni/Mg(Al)O catalysts. Applied Catalysis A: General, 2007, 321, 155-164.	4.3	39
40	Selective T-site substitution as a cause of the anisotropy of lattice expansion in titanosilicate-1 investigated by molecular dynamics and computer graphics. Microporous Materials, 1995, 4, 53-57.	1.6	38
41	para-Selectivity of silicalite-1 coated MFI type galloaluminosilicate in aromatization of light alkanes. Journal of Porous Materials, 2015, 22, 769-778.	2.6	38
42	High-performance silicalite-1 membranes on porous tubular silica supports for separation of ethanol/water mixtures. Separation and Purification Technology, 2017, 187, 343-354.	7.9	38
43	Convenient conversion of crystalline layered silicate octosilicate into RWR-type zeolite by acetic acid intercalation. New Journal of Chemistry, 2007, 31, 593.	2.8	37
44	Hydrothermal conversion of FAU zeolite into aluminous MTN zeolite. Journal of Porous Materials, 2009, 16, 465-471.	2.6	37
45	Combinatorial computational chemistry approach to the design of deNOx catalysts. Applied Catalysis A: General, 2000, 194-195, 183-191.	4.3	36
46	Direct hydrothermal synthesis and stabilization of high-silica mordenite (Siâˆ¶Al = 25) using tetraethylammonium and fluoride ions. Journal of Materials Chemistry, 2003, 13, 1173-1179.	6.7	36
47	Effect of Aluminum Source on Hydrothermal Synthesis of High-Silica Mordenite in Fluoride Medium, and It's Thermal Stability. Chemistry of Materials, 2004, 16, 286-291.	6.7	34
48	Synthesis and Crystal Structure of a Layered Silicate HUS-1 with a Halved Sodalite-Cage Topology. Inorganic Chemistry, 2011, 50, 2294-2301.	4.0	34
49	Preparation and characterization of polypropylene/mesoporous silica nanocomposites with confined polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3324-3332.	2.1	33
50	Effect of basicity of metal doped ZrO2 supports on hydrogen production reactions. International Journal of Hydrogen Energy, 2018, 43, 730-738.	7.1	33
51	Effective MgO surface doping of Cu/Zn/Al oxides as waterâ€“gas shift catalysts. Applied Clay Science, 2009, 44, 211-217.	5.2	32
52	Î“-point density functional calculations on the adsorption of rhodium and palladium particles on MgO(001) surface and their reactivity. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1175-1178.	1.7	31
53	Reversibility of dealuminationâ€“realumination process of BEA zeolite. Microporous and Mesoporous Materials, 2001, 49, 103-109.	4.4	31
54	Bromine addition and successive amine substitution of mesoporous ethylenesilica: Reaction, characterizations and arsenate adsorption. Microporous and Mesoporous Materials, 2007, 100, 328-339.	4.4	31

#	Article	IF	Citations
55	Solvent/OSDA-free interzeolite transformation of FAU into CHA zeolite with quantitative yield. Microporous and Mesoporous Materials, 2019, 278, 219-224.	4.4	31
56	Structural Properties of LixMn2O4as Investigated by Molecular Dynamics and Density Functional Theory. Japanese Journal of Applied Physics, 2000, 39, 4318-4322.	1.5	30
57	Influences of aliphatic alcohols on crystallization of large mordenite crystals and their sorption properties. Journal of Materials Chemistry, 2003, 13, 181-185.	6.7	30
58	Synthesis of aluminophosphate molecular sieves with AFI topology substituted by alkaline earth metal and their application to solid acid catalysis. Microporous and Mesoporous Materials, 2005, 81, 289-303.	4.4	29
59	Novel post-synthesis alumination method for MCM-41 using trimethylaluminum. Microporous and Mesoporous Materials, 2001, 44-45, 267-274.	4.4	28
60	Molecular dynamics calculations of CO2/N2 mixture through the NaY type zeolite membrane. Journal of Membrane Science, 2001, 188, 21-28.	8.2	27
61	Photocatalytic decomposition of 2-propanol in air by mechanical mixtures of TiO2 crystalline particles and silicalite adsorbent: The complete conversion of organic molecules strongly adsorbed within zeolitic channels. Microporous and Mesoporous Materials, 2009, 117, 350-355.	4.4	27
62	Sustainable Ru-doped Ni catalyst derived from hydrotalcite in propane reforming. Applied Clay Science, 2009, 43, 49-56.	5.2	27
63	Palladium on Carbonâ€Catalyzed Câ^'H Amination for Synthesis of Carbazoles and its Mechanistic Study. Advanced Synthesis and Catalysis, 2016, 358, 3145-3151.	4.3	27
64	Binary mixture adsorption of water and ethanol on silicalite. Studies in Surface Science and Catalysis, 2002, 142, 1595-1602.	1.5	26
65	Dependence of the diffusion coefficients of methane in silicalite on diffusion distance as investigated by 1H PFG NMR. Chemical Physics Letters, 2004, 393, 87-91.	2.6	26
66	High Water Tolerance of a Coreâ€“Shellâ€Structured Zeolite for CO₂ Adsorptive Separation under Wet Conditions. ChemSusChem, 2018, 11, 1756-1760.	6.8	26
67	Effect of the framework structure on the dealuminationâ€“realumination behavior of zeolite. Materials Chemistry and Physics, 2003, 78, 551-557.	4.0	25
68	Facile preparation of SBA-15-supported niobic acid (Nb2O5Â·nH2O) catalyst and its catalytic activity. Applied Catalysis A: General, 2009, 365, 261-267.	4.3	24
69	Layer-by-layer homoepitaxial growth process of MgO(001) as investigated by molecular dynamics, density functional theory, and computer graphics. Journal of Chemical Physics, 1997, 107, 4416-4422.	3.0	23
70	Estimation of spacing between 3-bromopropyl functions grafted on mesoporous silica surfaces by a substitution reaction using diamine probe molecules. Journal of Materials Chemistry, 2007, 17, 3901.	6.7	23
71	Preparation of Ti incorporated Y zeolites by a post-synthesis method under acidic conditions and their catalytic properties. Applied Catalysis A: General, 2010, 388, 256-261.	4.3	23
72	A simple secondary growth method for the preparation of silicalite-1 membrane on a tubular silica support via gel-free steam-assisted conversion. Journal of Membrane Science, 2017, 542, 150-158.	8.2	23

#	Article	IF	Citations
73	Dehydrogenation of propane over high silica *BEA type gallosilicate (Ga-Beta). Catalysis Science and Technology, 2019, 9, 6234-6239.	4.1	23
74	Mesoporous silica as nanoreactor for olefin polymerization. Catalysis Surveys From Asia, 2004, 8, 295-304.	2.6	22
75	Effect of ammonium salts on hydrothermal synthesis of high-silica mordenite. Microporous and Mesoporous Materials, 2005, 81, 365-374.	4.4	22
76	Polymerisation of aminopropyltrialkoxysilane in the presence of carboxylate: a new layered organosilica mesocomposite built up using intermolecular interactions with LB film-type self-assembly. Journal of Materials Chemistry, 2007, 17, 1372.	6.7	22
77	Effect of core-shell structuring of chabazite zeolite with a siliceous zeolite thin layer on the separation of acetone-butanol-ethanol vapor in humid vapor conditions. Chemical Engineering Journal, 2019, 363, 292-299.	12.7	22
78	Application of porous inorganic materials to adsorptive separation of methylalumoxane used as co-catalyst in olefin polymerization. Microporous and Mesoporous Materials, 2001, 44-45, 557-564.	4.4	21
79	Synthesis of lamellar mesostructured calcium phosphates using n-alkylamines as structure-directing agents in alcohol/water mixed solvent systems. Journal of Materials Science, 2008, 43, 4198-4207.	3.7	21
80	Preparation of â€œintelligentâ€•Pt/Ni/Mg(Al)O catalysts starting from commercial Mgâ€“Al LDHs for daily start-up and shut-down steam reforming of methane. Applied Clay Science, 2009, 45, 147-154.	5.2	21
81	Effect of deposition seed crystal amount on the Î±-Al2O3 support and separation performance of silicalite-1 membranes for acetic acid/water mixtures. Separation and Purification Technology, 2017, 174, 57-65.	7.9	21
82	Influences of methylaluminoxane separated by porous inorganic materials on the isospecific polymerization of propylene. Macromolecular Rapid Communications, 2000, 21, 1191-1195.	3.9	20
83	Influence of metal cation doping on Ru/CeO2/Al2O3 catalyst for steam reforming of desulfurized kerosene. International Journal of Hydrogen Energy, 2015, 40, 2657-2662.	7.1	20
84	Design of Microporous Material HUS-10 with Tunable Hydrophilicity, Molecular Sieving, and CO₂ Adsorption Ability Derived from Interlayer Silylation of Layered Silicate HUS-2. ACS Applied Materials & Interfaces, 2015, 7, 24360-24369.	8.0	20
85	Fabrication of high-performance silicalite-1 membrane by a novel seeding method using zeolite-dispersed polymer film. Microporous and Mesoporous Materials, 2018, 261, 58-62.	4.4	20
86	Control of crystal size of high-silica mordenite by quenching in the course of crystallization process. Microporous and Mesoporous Materials, 2006, 95, 141-145.	4.4	19
87	Structural and physico-chemical properties of high-silica mordenite. Microporous and Mesoporous Materials, 2007, 101, 127-133.	4.4	19
88	Templating Route for Mesostructured Calcium Phosphates with Carboxylic Acid- and Amine-Type Surfactants. Langmuir, 2008, 24, 13113-13120.	3.5	19
89	Characterization and Catalytic Activities of Faujasites Synthesized by Using Coal Fly Ash.. Journal of the Ceramic Society of Japan, 2001, 109, 968-973.	1.3	18
90	Convenient synthesis of large mordenite crystals. Journal of Crystal Growth, 2006, 291, 521-526.	1.5	18

#	Article	IF	Citations
91	â€œGreenâ€•preparation of â€œintelligentâ€•Pt-doped Ni/Mg(Al)O catalysts for daily start-up and shut-down CH4 steam reforming. Applied Catalysis A: General, 2009, 363, 169-179.	4.3	18
92	Effects of seed crystal type on the growth and microstructures of silicalite-1 membranes on tubular silica supports via gel-free steam-assisted conversion. Microporous and Mesoporous Materials, 2019, 289, 109645.	4.4	18
93	Role of ammonium fluoride in crystallization process of beta zeolite. Journal of Crystal Growth, 2007, 307, 177-184.	1.5	17
94	Aluminum distribution in high-silica mordenite. Journal of Porous Materials, 2007, 14, 89-96.	2.6	17
95	Effect of Si/Al ratio and amount of deposited MFI-type seed crystals on the separation performance of silicalite-1 membranes for ethanol/water mixtures in the presence of succinic acid. Microporous and Mesoporous Materials, 2018, 267, 1-8.	4.4	17
96	Density functional calculation on the adsorption of nitrogen oxides and water on ion exchanged ZSM-5. Applied Surface Science, 1998, 130-132, 561-565.	6.1	16
97	Effective activation of metallocene catalyst with AlMCM-41 in propylene polymerization. Catalysis Letters, 2001, 71, 105-110.	2.6	16
98	Standardization of catalyst preparation using reference catalyst: ion exchange of mordenite type zeolite. Applied Catalysis A: General, 2005, 283, 63-74.	4.3	16
99	Standardization of catalyst preparation using reference catalyst: ion exchange of mordenite type zeolite. Applied Catalysis A: General, 2005, 283, 75-84.	4.3	16
100	Nanoporous ZSM-5 Crystals Coated with Silicalite-1 for Enhanced p-Xylene Separation. ACS Applied Nano Materials, 2019, 2, 2642-2650.	5.0	16
101	Layer-by-layer heteroepitaxial growth process of a BaO layer on SrTiO3(001) as investigated by molecular dynamics. Journal of Chemical Physics, 1998, 109, 9148-9154.	3.0	15
102	Unique Chemoselective Hydrogenation using a Palladium Catalyst Immobilized on Ceramic. ChemCatChem, 2015, 7, 2155-2160.	3.7	15
103	Effects of structural characteristics of zeolites on the properties of their bridging and terminal hydroxyl groups. Applied Surface Science, 1998, 130-132, 555-560.	6.1	14
104	Citrate or hydrotalcite?. Applied Catalysis A: General, 2009, 356, 231-242.	4.3	14
105	Effects of Silica-Particle Coating on a Silica Support for the Fabrication of High-Performance Silicalite-1 Membranes by Gel-Free Steam-Assisted Conversion. Membranes, 2019, 9, 46.	3.0	14
106	Co-incorporation of Al and Ga into BEA zeolite by the pH control method. Microporous and Mesoporous Materials, 2003, 66, 109-116.	4.4	13
107	Synthesis and characterization of large beta zeolite crystals using ammonium fluoride. Journal of Materials Science, 2006, 41, 1861-1864.	3.7	13
108	Processing of ethanol fermentation broths by Candida krusei to separate bioethanol by pervaporation using silicone rubberâ€coated silicalite membranes. Journal of Chemical Technology and Biotechnology, 2009, 84, 1172-1177.	3.2	13

#	Article	IF	Citations
109	NO2 adsorption on ion exchanged ZSM-5: a density functional study. Applied Surface Science, 1997, 119, 103-106.	6.1	12
110	Molecular dynamics simulation on a layer-by-layer homoepitaxial growth process of SrTiO3(001). Journal of Chemical Physics, 1998, 109, 8601-8606.	3.0	12
111	Chemical Vapor Deposition Process on the ZSM-5(010) Surface as Investigated by Molecular Dynamics. Journal of Physical Chemistry B, 1999, 103, 1876-1880.	2.6	12
112	Syntheses of the Novel Acidic and Basic Ligands and Superlattice Formation from Gold Nanoparticles through Interparticle Acidâ€“Base Interaction. Bulletin of the Chemical Society of Japan, 2004, 77, 1589-1597.	3.2	12
113	CO2 methanation combined with NH3 decomposition by in situ H2 separation using a Pd membrane reactor. International Journal of Hydrogen Energy, 2014, 39, 10154-10160.	7.1	12
114	Ambient atomic force microscopy images of stilbite and their interpretation by molecular simulations. Applied Surface Science, 1997, 121-122, 543-547.	6.1	11
115	Molecular dynamics simulations on oxygen ion diffusion in strained YSZ/CeO2 superlattice. Applied Surface Science, 1998, 130-132, 545-548.	6.1	11
116	Periodic Boundary Quantum Chemical Study on ZnO Ultra-Violet Laser Emitting Materials. Japanese Journal of Applied Physics, 1999, 38, 2603-2605.	1.5	11
117	Dealumination behavior of ZSM-5 type zeolite containing alkaline earth metal. Studies in Surface Science and Catalysis, 2005, 158, 191-198.	1.5	11
118	Control of spacing between aminoalkyl functions by mesostructural transition in a polysilsesquioxane lamellar assembly. Journal of Materials Chemistry, 2010, 20, 2024.	6.7	11
119	Stable dehydroaromatization of ethane over Zn ion exchanged MFI type galloaluminosilicate zeolite. Fuel, 2021, 305, 121487.	6.4	11
120	The structure and electronic characteristics of metallosilicates with ZSM-5 structure. Catalysis Letters, 1997, 45, 21-26.	2.6	10
121	Solubility and Crystallization-controlled Synthesis of Lamellar Mesostructured Calcium Phosphate in the Ethanol/Water System. Chemistry Letters, 2006, 35, 948-949.	1.3	10
122	Realumination of zeolite Y under acidic conditions. Journal of Porous Materials, 2007, 14, 19-26.	2.6	10
123	Structural conversion of crystalline layered silicate magadiite to microporous material by acetic acid intercalation. Journal of Porous Materials, 2009, 16, 641-649.	2.6	10
124	Effect of adhesion of metals on deterioration of Pd and Pd alloy membranes. Journal of Alloys and Compounds, 2013, 577, 445-450.	5.5	10
125	Hydrophobic *BEA-Type Zeolite Membranes on Tubular Silica Supports for Alcohol/Water Separation by Pervaporation. Membranes, 2019, 9, 86.	3.0	10
126	Quantum chemical investigation of reactants in selective reduction of NOx on ion exchanged ZSM-5. Studies in Surface Science and Catalysis, 1997, , 1485-1492.	1.5	9

#	Article	IF	Citations
127	Computer-aided design of novel heterogeneous catalystsâ€"A combinatorial computational chemistry approach. Studies in Surface Science and Catalysis, 2000, , 401-406.	1.5	9
128	Unique surface property of surfactant-assisted mesoporous calcium phosphate. Microporous and Mesoporous Materials, 2011, 141, 56-60.	4.4	9
129	Fabrication of pure-silica *BEA-type zeolite membranes on tubular silica supports coated with dilute synthesis gel via steam-assisted conversion. Separation and Purification Technology, 2020, 247, 116934.	7.9	9
130	Combinatorial computational chemistry approach to the design of metal oxide electronics materials. , 2000, 3941, 2.		8
131	Mesoporous silicas containing carboxylic acid: Preparation, thermal degradation, and catalytic performance. Applied Catalysis A: General, 2010, 372, 82-89.	4.3	8
132	Atomic processes in the thermal destruction of zeolites as investigated by molecular dynamics and computer graphics. Catalysis Today, 1995, 23, 417-423.	4.4	7
133	Atomistic mechanism of the adsorption of CFCs in zeolite as investigated by Monte Carlo simulation. Studies in Surface Science and Catalysis, 1997, , 1811-1818.	1.5	7
134	Application of integrated computational chemistry system to the design of inorganic membranes. Catalysis Today, 1999, 50, 651-660.	4.4	7
135	The modeling of wall structure of siliceous MCM-41 based on the formation process. Studies in Surface Science and Catalysis, 2002, , 69-76.	1.5	7
136	Propylene polymerization using various metal-containing MCM-41 as cocatalyst. Studies in Surface Science and Catalysis, 2002, , 871-878.	1.5	7
137	Monte Carlo simulation of pyridine base adsorption on heulandite (0 1 0). Applied Surface Science, 2002, 188, 377-380.	6.1	7
138	Preparation and Characterization of Al-CDS-1 Zeolite. Journal of the Ceramic Society of Japan, 2005, 113, 424-428.	1.3	7
139	Development of Dual Ensemble Monte Carlo Program and its Application to the CO₂/N₂Separation. Molecular Simulation, 2000, 25, 187-196.	2.0	6
140	Mesoporous aluminosilicates from coal fly ash. Studies in Surface Science and Catalysis, 2002, 141, 159-166.	1.5	6
141	Structure of Lamellar Polysiloxane Induced by Interaction between Carboxylate (Alkanoate and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Chemical Society of Japan, 2009, 82, 1313-1321.	3.2	6
142	Synthesis of single phase Ca-Î±-SiAlON using Y-type zeolite. Journal of the European Ceramic Society, 2010, 30, 1537-1541.	5.7	6
143	Crystal structure, characterization and thermal stability of NH4+-exchanged â€"LIT-type zeolite. Microporous and Mesoporous Materials, 2012, 163, 42-50.	4.4	6
144	Molecular dynamics study of epitaxial growth and cluster formation on MgO(001). AIChE Journal, 1997, 43, 2765-2772.	3.6	5

#	Article	IF	Citations
145	Effects of structure-directing agents on hydrothermal conversion of FAU type zeolite. Studies in Surface Science and Catalysis, 2008, 174, 229-232.	1.5	5
146	Solid-Like Behavior of Concentrated Particulate Suspensions under Squeezing Flow. Nihon Reoroji Gakkaishi, 2005, 33, 29-36.	1.0	5
147	Molecular dynamics simulation of metal porphyrin complex encapsulated in zeolite. Applied Surface Science, 1997, 119, 346-350.	6.1	4
148	Direct synthesis of high-silica mordenite and its thermal stability. Studies in Surface Science and Catalysis, 2004, 154, 224-232.	1.5	4
149	Synthesis of a lamellar mesostructured calcium phosphate using hexadecylamine as a structure-directing agent in the ethanol/water solvent system. Studies in Surface Science and Catalysis, 2007, 165, 253-256.	1.5	4
150	Understanding of the Formation of Mesostructured Alkylammonium-Alkaline Earth Metal Phosphates Composed of Ionic Frameworks. Journal of Nanoscience and Nanotechnology, 2009, 9, 627-633.	0.9	4
151	Synthesis and crystal structures of a novel layered silicate SSA-1 and its microporous derivatives by topotactic transformation. Dalton Transactions, 2016, 45, 16335-16344.	3.3	4
152	Preparation of novel hydrophilic microporous material PML-1 membrane by topotactic transformation of layered silicate SSA-1 and applicability to the dehydration of aqueous acetic acid. Microporous and Mesoporous Materials, 2019, 285, 241-246.	4.4	4
153	The dynamics study of metallocene catalyst using molecular dynamics. Applied Surface Science, 1998, 130-132, 501-505.	6.1	3
154	Studies on catalytic epoxidation reaction cycle with titanium silicalite-1 (ts-1) cluster model: Ts-1 peroxide formation and epoxidation reaction. Studies in Surface Science and Catalysis, 1999, , 227-232.	1.5	3
155	Density Functional Study on the Transition State of Methane Activation over Ion-Exchanged ZSM-5. ACS Symposium Series, 1999, , 321-332.	0.5	3
156	Isospecific polymerization of propylene with Metal-MCM-41. Studies in Surface Science and Catalysis, 2003, 146, 753-756.	1.5	3
157	Novel Inorganicâ€“Organic Layered Composite Synthesized by Polycondensation of 3-Aminopropyltriethoxysilane Associated with the Self-assembly of Alkanoate. Chemistry Letters, 2006, 35, 1198-1199.	1.3	3
158	Application of integrated computer simulation approach to solid surfaces and interfaces. Catalysis Surveys From Asia, 1998, 2, 133-153.	1.2	2
159	Galliation of beta zeolite by the pH control method. Studies in Surface Science and Catalysis, 2002, 142, 1833-1840.	1.5	2
160	Propylene polymerization behavior of Ti-containing mesoporous silicas. Studies in Surface Science and Catalysis, 2005, , 1437-1444.	1.5	2
161	Novel high-silica zeolite CDS-1 converted from layered silicate PLS-1 by dehydration-condensation. Studies in Surface Science and Catalysis, 2005, , 223-230.	1.5	2
162	Characterization of high-silica mordenites synthesized by various direct hydrothermal synthesis methods. Studies in Surface Science and Catalysis, 2005, 158, 725-732.	1.5	2

#	Article	IF	Citations
163	Structural transformations of lamellar assembly of polysilsesquioxane nanosheets and arsenate adsorptions on transformed variants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 360, 159-166.	4.7	2
164	Selective Formation of <i>p</i>-Xylene in Aromatization of Propane over Silicalite-1-coated GaAlMFI. Journal of the Japan Petroleum Institute, 2011, 54, 275-276.	0.6	2
165	Incorporation of highly dispersed aluminum into inner surfaces of supermicroporous silica using anionic surfactant. Journal of Porous Materials, 2011, 18, 493-500.	2.6	2
166	Effects of Catalysts and Membranes on the Performance of Membrane Reactors in Steam Reforming of Ethanol at Moderate Temperature. Processes, 2016, 4, 18.	2.8	2
167	Effect of Co-products on Pd Membrane Performance in Membrane Reforming of Desulfurized Kerosene. Journal of Chemical Engineering of Japan, 2017, 50, 15-20.	0.6	2
168	Effect of Silicalite-1 Coating on Product Selectivity Over MFI Type Galloaluminosilicate in Aromatization of Light Alkenes. Advanced Porous Materials, 2016, 4, 102-109.	0.3	2
169	Integrated computational chemistry study for zeolite microporous materials. Research on Chemical Intermediates, 1998, 24, 169-181.	2.7	1
170	Synthesis and characterization of Al-MCM-48 type materials using coal fly ash. Studies in Surface Science and Catalysis, 2002, , 1229-1236.	1.5	1
171	Synthesis and Characterization of Mesoporous Silica Fibers. Journal of the Ceramic Society of Japan, 2003, 111, 502-508.	1.3	1
172	Effect of Aluminum Source on Hydrothermal Synthesis of High-Silica Mordenite in Fluoride Medium, and Its Thermal Stability.. ChemInform, 2004, 35, no.	0.0	1
173	Direct synthesis of Pt nanoparticles-containing MCM-41 using surfactant stabilized Pt nanoparticles. Studies in Surface Science and Catalysis, 2004, , 834-840.	1.5	1
174	Effect of NaF Addition on Hydrothermal Synthesis of High-Silica Mordenite. Journal of the Ceramic Society of Japan, 2004, 112, 332-337.	1.3	1
175	Effect of Electroosmotic Flow on the Electrophoretic Deposition of Zeolite Powder on a Porous Alumina Support. ECS Transactions, 2018, 82, 13-18.	0.5	1
176	Preparation of thin and dense electroless-plated Pd membrane by controlling Pd deposition behavior. Transactions of the Materials Research Society of Japan, 2011, 36, 229-232.	0.2	1
177	Synthesis of 1,4-Dioxan-2-one from 1,3-Dioxolane and Carbon Monoxide over Cation-exchange Resin Catalyst.. Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute), 2001, 44, 131-134.	0.1	1
178	A Novel Strategy to Enhance Acid Strength of Zeolites by Incorporating Ge into Zeolite Framework. ChemistrySelect, 2022, 7, .	1.5	1
179	Molecular Simulation of Thermal Destruction Processes in Aluminophosphates.. Kagaku Kogaku Ronbunshu, 1995, 21, 1140-1146.	0.3	0
180	Design methodology for analog high frequency ICs. , 0, , .		0

#	Article	IF	Citations
181	Is It Possible to Design Catalysts by Computational Chemistry!?. Kobunshi, 1999, 48, 328-331.	0.0	0
182	Influence of Silica Source on Zeolite Synthesis in the Presence of 1-Butanol.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 2000, 2000, 733-737.	0.1	0
183	Recent Developments in Transition Metal-Catalyzed Polymerization I. Polymerization Behavior of Propylene with Titanium Diamide Catalysts.. Kobunshi Ronbunshu, 2002, 59, 150-157.	0.2	0
184	Polymerization of 1,5-Hexadiene with (CH3)2Si(Fluorenyl)2ZrCl2-MAO Catalyst. Kobunshi Ronbunshu, 2003, 60, 365-368.	0.2	0
185	The Topotactic Conversion of a Novel Layered Silicate into a New Framework Zeolite.. ChemInform, 2004, 35, no.	0.0	0
186	Synthesis and Structure of Novel Zeolite Obtained by Topotactic Condensation Using Nano-precursors. Shinku/Journal of the Vacuum Society of Japan, 2006, 49, 219-224.	0.2	0
187	Synthesis of layered organosilica binding with selfassembled LB film. Studies in Surface Science and Catalysis, 2007, 165, 433-436.	1.5	0
188	Realumination of Y zeolite in ammonium salt solution. Studies in Surface Science and Catalysis, 2007, , 604-609.	1.5	0
189	Absorption of Cu(II) in layered diaminoalkyl- and monoaminoalkyl-polysilsesquioxane. Polymer, 2017, 132, 227-234.	3.8	0
190	A case of lung adenocarcinoma complicated by pulmonary talcosis occurring in a patient employed in the confectionery industry. Pathology International, 2019, 69, 229-234.	1.3	0
191	Crystal Structure Determination of a Novel Zeolite CDS-1 Using a Layered Silicate as a Topotactic Precursor. Nihon Kessho Gakkaishi, 2005, 47, 216-222.	0.0	0