Ryong Ryoo

List of Publications by Year
in descending order

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294 papers	38,653 citations	3531 90 h-index	2747 192 g-index
306 all docs	306 docs citations	306 times ranked	22195 citing authors

#	Article	IF	Citations
1	Ordered nanoporous arrays of carbon supporting high dispersions of platinum nanoparticles. Nature, 2001, 412, 169-172.	27.8	2,439
2	Synthesis of New, Nanoporous Carbon with Hexagonally Ordered Mesostructure. Journal of the American Chemical Society, 2000, 122, 10712-10713.	13.7	2,331
3	Synthesis of Highly Ordered Carbon Molecular Sieves via Template-Mediated Structural Transformation. Journal of Physical Chemistry B, 1999, 103, 7743-7746.	2.6	2,322
4	Stable single-unit-cell nanosheets of zeolite MFI as active and long-lived catalysts. Nature, 2009, 461, 246-249.	27.8	1,925
5	Cubic Ia3d large mesoporous silica: synthesis and replication to platinum nanowires, carbon nanorods and carbon nanotubesElectronic supplementary information (ESI) available: TEM images of mesoporous cubic silica and Pt networks, XRD patterns during formation of the cubic phase. See http://www.rsc.org/suppdata/cc/b3/b306504a/. Chemical Communications, 2003, , 2136.	4.1	1,286
6	Characterization of the Porous Structure of SBA-15. Chemistry of Materials, 2000, 12, 1961-1968.	6.7	1,280
7	Amphiphilic organosilane-directed synthesis of crystalline zeolite with tunable mesoporosity. Nature Materials, 2006, 5, 718-723.	27.5	1,079
8	Direct imaging of the pores and cages of three-dimensional mesoporous materials. Nature, 2000, 408, 449-453.	27.8	832
9	Directing Zeolite Structures into Hierarchically Nanoporous Architectures. Science, 2011, 333, 328-332.	12.6	750
10	MCM-48-like Large Mesoporous Silicas with Tailored Pore Structure:Â Facile Synthesis Domain in a Ternary Triblock Copolymerâ^'Butanolâ^'Water System. Journal of the American Chemical Society, 2005, 127, 7601-7610.	13.7	681
11	Block-Copolymer-Templated Ordered Mesoporous Silica:Â Array of Uniform Mesopores or Mesoporeâ^'Micropore Network?. Journal of Physical Chemistry B, 2000, 104, 11465-11471.	2.6	631
12	Effect of mesoporosity against the deactivation of MFI zeolite catalyst during the methanol-to-hydrocarbon conversion process. Journal of Catalysis, 2010, 269, 219-228.	6.2	560
13	Microporosity and connections between pores in SBA-15 mesostructured silicas as a function of the temperature of synthesis. New Journal of Chemistry, 2003, 27, 73-79.	2.8	497
14	Pillared MFI Zeolite Nanosheets of a Single-Unit-Cell Thickness. Journal of the American Chemical Society, 2010, 132, 4169-4177.	13.7	466
15	Disordered Molecular Sieve with Branched Mesoporous Channel Network. The Journal of Physical Chemistry, 1996, 100, 17718-17721.	2.9	451
16	Recent advances in the synthesis of hierarchically nanoporous zeolites. Microporous and Mesoporous Materials, 2013, 166, 3-19.	4.4	420
17	A Synthetic Route to Ordered Mesoporous Carbon Materials with Graphitic Pore Walls. Angewandte Chemie - International Edition, 2003, 42, 4375-4379.	13.8	366
18	Synthesis of Mesoporous Silicas of Controlled Pore Wall Thickness and Their Replication to Ordered Nanoporous Carbons with Various Pore Diameters. Journal of the American Chemical Society, 2002, 124, 1156-1157.	13.7	349

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19	Determination of Pore Size and Pore Wall Structure of MCM-41 by Using Nitrogen Adsorption, Transmission Electron Microscopy, and X-ray Diffraction. Journal of Physical Chemistry B, 2000, 104, 292-301.	2.6	342
20	Structural Study of Mesoporous MCM-48 and Carbon Networks Synthesized in the Spaces of MCM-48 by Electron Crystallography. Journal of Physical Chemistry B, 2002, 106, 1256-1266.	2.6	342
21	Characterization of Ordered Mesoporous Carbons Synthesized Using MCM-48 Silicas as Templates. Journal of Physical Chemistry B, 2000, 104, 7960-7968.	2.6	333
22	Tailoring the Pore Structure of SBA-16 Silica Molecular Sieve through the Use of Copolymer Blends and Control of Synthesis Temperature and Time. Journal of Physical Chemistry B, 2004, 108, 11480-11489.	2.6	333
23	Facile Synthesis of Monodispersed Mesoporous Silica Nanoparticles with Ultralarge Pores and Their Application in Gene Delivery. ACS Nano, 2011, 5, 3568-3576.	14.6	328
24	Ion Exchange and Thermal Stability of MCM-41. The Journal of Physical Chemistry, 1995, 99, 16742-16747.	2.9	307
25	Improvement of Hydrothermal Stability of MCM-41 Using Salt Effects during the Crystallization Process. Journal of Physical Chemistry B, 1997, 101, 317-320.	2.6	304
26	Amine-impregnated silica monolith with a hierarchical pore structure: enhancement of CO2 capture capacity. Chemical Communications, 2009, , 3627.	4.1	301
27	Facile synthesis of high quality mesoporous SBA-15 with enhanced control of the porous network connectivity and wall thickness. Chemical Communications, 2003, , 1340-1341.	4.1	297
28	Large Cage Face-Centered-CubicFm3mMesoporous Silica:Â Synthesis and Structure. Journal of Physical Chemistry B, 2003, 107, 14296-14300.	2.6	296
29	Mesoporous materials with zeolite framework: remarkable effect of the hierarchical structure for retardation of catalyst deactivation. Chemical Communications, 2006, , 4489.	4.1	282
30	Template Synthesis of Asymmetrically Mesostructured Platinum Networks. Journal of the American Chemical Society, 2001, 123, 1246-1247.	13.7	277
31	Controlled Polymerization in Mesoporous Silica toward the Design of Organicâ^'Inorganic Composite Nanoporous Materials. Journal of the American Chemical Society, 2005, 127, 1924-1932.	13.7	263
32	Highly valuable chemicals production from catalytic upgrading of radiata pine sawdust-derived pyrolytic vapors over mesoporous MFI zeolites. Applied Catalysis B: Environmental, 2010, 95, 365-373.	20.2	262
33	Lanthanum-catalysed synthesis of microporous 3D graphene-like carbons in a zeolite template. Nature, 2016, 535, 131-135.	27.8	253
34	Synthesis and Characterization of Hexagonally Ordered Carbon Nanopipes. Chemistry of Materials, 2003, 15, 2815-2823.	6.7	250
35	Rare-earthâ€“platinum alloy nanoparticles in mesoporous zeolite for catalysis. Nature, 2020, 585, 221-224.	27.8	233
36	Energetically Favored Formation of MCM-48 from Cationicâ^'Neutral Surfactant Mixtures. Journal of Physical Chemistry B, 1999, 103, 7435-7440.	2.6	227

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37	Structural order in MCM-41 controlled by shifting silicate polymerization equilibrium. Journal of the Chemical Society Chemical Communications, 1995, , 711.	2.0	220
38	Assessment of the mesopore wall catalytic activities of MFI zeolite with mesoporous/microporous hierarchical structures. Journal of Catalysis, 2008, 254, 296-303.	6.2	215
39	Synthesis of MCM-48 single crystals. Chemical Communications, 1998, , 259-260.	4.1	213
40	TEM Studies of Platinum Nanowires Fabricated in Mesoporous Silica MCM-41. Angewandte Chemie - International Edition, 2000, 39, 3107-3110.	13.8	213
41	Evidence for General Nature of Pore Interconnectivity in 2-Dimensional Hexagonal Mesoporous Silicas Prepared Using Block Copolymer Templates. Journal of Physical Chemistry B, 2002, 106, 4640-4646.	2.6	208
42	Direct observation of bond formation in solution with femtosecond X-ray scattering. Nature, 2015, 518, 385-389.	27.8	207
43	MFI Titanosilicate Nanosheets with Single-Unit-Cell Thickness as an Oxidation Catalyst Using Peroxides. ACS Catalysis, 2011, 1, 901-907.	11.2	206
44	Direct Observation of 3D Mesoporous Structure by Scanning Electron Microscopy (SEM): SBA-15 Silica and CMK-5 Carbon. Angewandte Chemie - International Edition, 2003, 42, 2182-2185.	13.8	196
45	Hierarchically Structure-Directing Effect of Multi-Ammonium Surfactants for the Generation of MFI Zeolite Nanosheets. Chemistry of Materials, 2011, 23, 5131-5137.	6.7	195
46	Generalised route to the preparation of mesoporous metallosilicates via post-synthetic metal implantation. Chemical Communications, 1997, , 2225-2226.	4.1	194
47	Generation of Mesoporosity in LTA Zeolites by Organosilane Surfactant for Rapid Molecular Transport in Catalytic Application. Chemistry of Materials, 2009, 21, 5664-5673.	6.7	193
48	Synthesis and Pore Size Control of Cubic Mesoporous Silica SBA-1. Chemistry of Materials, 1999, 11, 487-491.	6.7	192
49	Combined DRSâ€“RSâ€“EXAFSâ€“XANESâ€“TPR study of supported chromium catalysts. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3245-3253.	1.7	188
50	Characterization of Regular and Plugged SBA-15 Silicas by Using Adsorption and Inverse Carbon Replication and Explanation of the Plug Formation Mechanism. Journal of Physical Chemistry B, 2003, 107, 2205-2213.	2.6	184
51	Surface chemistry of ordered mesoporous carbons. Carbon, 2002, 40, 2673-2683.	10.3	181
52	Replication of Mesoporous Aluminosilicate Molecular Sieves (RMMs) with Zeolite Framework from Mesoporous Carbons (CMKs). Chemistry of Materials, 2004, 16, 3168-3175.	6.7	175
53	Modification of SBA-15 pore connectivity by high-temperature calcination investigated by carbon inverse replication. Chemical Communications, 2001, , 349-350.	4.1	170
54	Three-Dimensional Structure of Large-Pore Mesoporous Cubiclad Silica with Complementary Pores and Its Carbon Replica by Electron Crystallography. Angewandte Chemie - International Edition, 2004, 43, 5231-5234.	13.8	170

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55	Organosilane surfactant-directed synthesis of mesoporous aluminophosphates constructed with crystalline microporous frameworks. Chemical Communications, 2006, , 4380.	4.1	170
56	Ordered nanoporous polymerâ€“carbon composites. Nature Materials, 2003, 2, 473-476.	27.5	169
57	Benzoylthiourea-Modified Mesoporous Silica for Mercury(II) Removal. Langmuir, 2003, 19, 3031-3034.	3.5	165
58	Disordered Assembly of MFI Zeolite Nanosheets with a Large Volume of Intersheet Mesopores. Chemistry of Materials, 2011, 23, 1273-1279.	6.7	165
59	Synthesis of ordered mesoporous carbon molecular sieves CMK-1. Microporous and Mesoporous Materials, 2001, 44-45, 153-158.	4.4	164
60	Characterization of mesoporous carbons synthesized with SBA-16 silica template. Journal of Materials Chemistry, 2005, 15, 1560.	6.7	162
61	Improvement of Hydrothermal Stability of Mesoporous Silica Using Salts:â€‰ Reinvestigation for Time-Dependent Effects. Journal of Physical Chemistry B, 1999, 103, 6200-6205.	2.6	156
62	Efficient Functional Delivery of siRNA using Mesoporous Silica Nanoparticles with Ultralarge Pores. Small, 2012, 8, 1752-1761.	10.0	154
63	Characterization of the Surface Acidity of MFI Zeolite Nanosheets by ³¹P NMR of Adsorbed Phosphine Oxides and Catalytic Cracking of Decalin. ACS Catalysis, 2013, 3, 713-720.	11.2	153
64	Characterization of Highly Ordered MCM-41 Silicas Using X-ray Diffraction and Nitrogen Adsorption. Langmuir, 1999, 15, 5279-5284.	3.5	150
65	SBA-15-supported nickel phosphide hydrotreating catalysts. Journal of Catalysis, 2008, 253, 119-131.	6.2	148
66	High Catalytic Activity of Palladium(II)â€Exchanged Mesoporous Sodalite and NaA Zeolite for Bulky Aryl Coupling Reactions: Reusability under Aerobic Conditions. Angewandte Chemie - International Edition, 2009, 48, 3673-3676.	13.8	148
67	n-Heptane hydroisomerization over Pt/MFI zeolite nanosheets: Effects of zeolite crystal thickness and platinum location. Journal of Catalysis, 2013, 301, 187-197.	6.2	146
68	Phase Domain of the CubicIm3Ì„mMesoporous Silica in the EO106PO70EO106âˆ’Butanolâˆ’H2O System. Langmuir, 2006, 22, 440-445.	3.5	139
69	An HREM Study of Channel Structures in Mesoporous Silica SBA-15 and Platinum Wires Produced in the Channels. ChemPhysChem, 2001, 2, 229-231.	2.1	136
70	Spatial distribution, strength, and dealumination behavior of acid sites in nanocrystalline MFI zeolites and their catalytic consequences. Journal of Catalysis, 2012, 288, 115-123.	6.2	134
71	Molecular shape-selectivity of MFI zeolite nanosheets in n-decane isomerization and hydrocracking. Journal of Catalysis, 2013, 300, 70-80.	6.2	132
72	Mesoporous carbons with KOH activated framework and their hydrogen adsorption. Journal of Materials Chemistry, 2007, 17, 4204.	6.7	127

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73	Characterization of MCM-48 Silicas with Tailored Pore Sizes Synthesized via a Highly Efficient Procedure. Chemistry of Materials, 2000, 12, 1414-1421.	6.7	125
74	Synthesis of Ordered and Disordered Silicas with Uniform Pores on the Border between Micropore and Mesopore Regions Using Short Double-Chain Surfactants. Journal of the American Chemical Society, 2001, 123, 1650-1657.	13.7	119
75	Aluminum Impregnation into Mesoporous Silica Molecular Sieves for Catalytic Application to Friedelâ€“Crafts Alkylation. Journal of Catalysis, 2000, 195, 237-243.	6.2	112
76	Palladium acetate immobilized in a hierarchical MFI zeolite-supported ionic liquid: a highly active and recyclable catalyst for Suzuki reaction in water. Green Chemistry, 2009, 11, 309.	9.0	112
77	Production of phenolics and aromatics by pyrolysis of miscanthus. Fuel, 2012, 97, 379-384.	6.4	112
78	Microporous Aluminophosphate Nanosheets and Their Nanomorphic Zeolite Analogues Tailored by Hierarchical Structure-Directing Amines. Journal of the American Chemical Society, 2013, 135, 8806-8809.	13.7	111
79	External Surface Catalytic Sites of Surfactant-Tailored Nanomorphic Zeolites for Benzene Isopropylation to Cumene. ACS Catalysis, 2013, 3, 192-195.	11.2	110
80	Transformation of highly ordered large pore silica mesophases (Fm3m, Im3m and p6mm) in a ternary triblock copolymerâ€“butanolâ€“water system. Chemical Communications, 2004, , 1536-1537.	4.1	109
81	Adsorption Properties of Templated Mesoporous Carbon (CMK-1) for Nitrogen and Supercritical MethaneExperiment and GCMC Simulation. Journal of Physical Chemistry B, 2002, 106, 6523-6528.	2.6	107
82	Acidity and catalytic activity of mesoporous ZSM-5 in comparison with zeolite ZSM-5, Al-MCM-41 and silicaâ€“alumina. Catalysis Today, 2008, 132, 38-45.	4.4	106
83	Surfactant-Directed Zeolite Nanosheets: A High-Performance Catalyst for Gas-Phase Beckmann Rearrangement. ACS Catalysis, 2011, 1, 337-341.	11.2	105
84	Characterization of High-Quality MCM-48 and SBA-1 Mesoporous Silicas. Chemistry of Materials, 1999, 11, 2568-2572.	6.7	103
85	Synthesis of platinum networks with nanoscopic periodicity using mesoporous silica as template. Journal of Materials Chemistry, 2001, 11, 260-261.	6.7	101
86	Mesoporous MFI Zeolite Nanosponge Supporting Cobalt Nanoparticles as a Fischerâ€“Tropsch Catalyst with High Yield of Branched Hydrocarbons in the Gasoline Range. ACS Catalysis, 2014, 4, 3919-3927.	11.2	101
87	Synthesis of ordered mesoporous MFI zeolite using CMK carbon templates. Microporous and Mesoporous Materials, 2012, 151, 107-112.	4.4	100
88	Optically Transparent, Single-Crystal-Like Oriented Mesoporous Silica Films and Plates. Journal of Physical Chemistry B, 1997, 101, 10610-10613.	2.6	99
89	Surface and Pore Structures of CMK-5 Ordered Mesoporous Carbons by Adsorption and Surface Spectroscopy. Chemistry of Materials, 2003, 15, 3300-3307.	6.7	99
90	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. Nature Communications, 2019, 10, 1873.	12.8	93

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91	Adsorption and Structural Properties of Ordered Mesoporous Carbons Synthesized by Using Various Carbon Precursors and Ordered Siliceous P6mm and Ia3l„d Mesostructures as Templates. Journal of Physical Chemistry B, 2005, 109, 23263-23268.	2.6	92
92	Two-Minute Assembly of Pristine Large-Area Graphene Based Films. Nano Letters, 2014, 14, 1388-1393.	9.1	92
93	Highly Stable Pt/Ordered Graphitic Mesoporous Carbon Electrocatalysts for Oxygen Reduction. Journal of Physical Chemistry C, 2010, 114, 10796-10805.	3.1	90
94	Framework Characterization of Mesostructured Carbon CMK-1 by X-ray Powder Diffraction and Electron Microscopy. Journal of Physical Chemistry B, 2002, 106, 12198-12202.	2.6	89
95	Mesoporous sodalite: A novel, stable solid catalyst for base-catalyzed organic transformations. Journal of Catalysis, 2009, 264, 88-92.	6.2	87
96	Catalytic performance of sheet-like Fe/ZSM-5 zeolites for the selective oxidation of benzene with nitrous oxide. Journal of Catalysis, 2013, 299, 81-89.	6.2	87
97	Zeolite nanosheet of a single-pore thickness generated by a zeolite-structure-directing surfactant. Journal of Materials Chemistry, 2012, 22, 4637.	6.7	86
98	Imaging the Distribution of Framework Aluminum in Mesoporous Molecular Sieve MCM-41. Chemistry of Materials, 1997, 9, 1607-1613.	6.7	85
99	Expanded Heterogeneous Suzukiâ€“Miyaura Coupling Reactions of Aryl and Heteroaryl Chlorides under Mild Conditions. Advanced Synthesis and Catalysis, 2009, 351, 2912-2920.	4.3	85
100	Capping with Multivalent Surfactants for Zeolite Nanocrystal Synthesis. Angewandte Chemie - International Edition, 2013, 52, 10014-10017.	13.8	85
101	MFI zeolite nanosponges possessing uniform mesopores generated by bulk crystal seeding in the hierarchical surfactant-directed synthesis. Chemical Communications, 2014, 50, 4175-4177.	4.1	84
102	Zeolite Synthesis Using Hierarchical Structure-Directing Surfactants: Retaining Porous Structure of Initial Synthesis Gel and Precursors. Chemistry of Materials, 2012, 24, 2733-2738.	6.7	83
103	Application of the xenon-adsorption method for the study of metal cluster formation and growth on Y zeolite. Journal of the American Chemical Society, 1992, 114, 76-82.	13.7	81
104	High temperature treatment of ordered mesoporous carbons prepared by using various carbon precursors and ordered mesoporous silica templates. New Journal of Chemistry, 2008, 32, 981.	2.8	80
105	Boosting hot electron flux and catalytic activity at metalâ€“oxide interfaces of PtCo bimetallic nanoparticles. Nature Communications, 2018, 9, 2235.	12.8	80
106	Supporting Nickel To Replace Platinum on Zeolite Nanosponges for Catalytic Hydroisomerization of n-Dodecane. ACS Catalysis, 2018, 8, 10545-10554.	11.2	76
107	Detailed structure of the hexagonally packed mesostructured carbon material CMK-3. Carbon, 2002, 40, 2477-2481.	10.3	75
108	Comprehensive characterization of highly ordered MCM-41 silicas using nitrogen adsorption, thermogravimetry, X-ray diffraction and transmission electron microscopy. Microporous and Mesoporous Materials, 2001, 48, 127-134.	4.4	74

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109	The effect of MFI zeolite lamellar and related mesostructures on toluene disproportionation and alkylation. Catalysis Science and Technology, 2013, 3, 2119.	4.1	74
110	Mesoporous MFI Zeolite Nanosponge as a High-Performance Catalyst in the Pechmann Condensation Reaction. ACS Catalysis, 2015, 5, 2596-2604.	11.2	74
111	p-Aminophenol synthesis in an organic/aqueous system using Pt supported on mesoporous carbons. Applied Catalysis A: General, 2008, 337, 97-104.	4.3	73
112	The synthesis of a hierarchically porous BEA zeolite via pseudomorphic crystallization. Chemical Communications, 2009, , 2845.	4.1	73
113	Hydrothermal stability of MCM-48 improved by post-synthesis restructuring in salt solution. Microporous and Mesoporous Materials, 2000, 41, 119-127.	4.4	72
114	Selective p-xylene production from biomass-derived dimethylfuran and ethylene over zeolite beta nanosponge catalysts. Applied Catalysis B: Environmental, 2016, 185, 100-109.	20.2	72
115	Cyclic diquaternary ammoniums for nanocrystalline BEA, MTW and MFI zeolites with intercrystalline mesoporosity. Journal of Materials Chemistry, 2009, 19, 6713.	6.7	71
116	Syntheses of high quality KIT-6 and SBA-15 mesoporous silicas using low-cost water glass, through rapid quenching of silicate structure in acidic solution. Microporous and Mesoporous Materials, 2009, 124, 45-51.	4.4	70
117	Organic functionalization of mesopore walls in hierarchically porous zeolites. Chemical Communications, 2009, , 74-76.	4.1	67
118	Recent progress in scanning electron microscopy for the characterization of fine structural details of nano materials. Progress in Solid State Chemistry, 2014, 42, 1-21.	7.2	66
119	Upgrading of bio-oil derived from biomass constituents over hierarchical unilamellar mesoporous MFI nanosheets. Catalysis Today, 2014, 232, 119-126.	4.4	66
120	Zeolite-templated nanoporous carbon for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 10388-10394.	10.3	66
121	Imaging the channels in mesoporous molecular sieves with platinum. Chemical Communications, 1996, , 2467.	4.1	65
122	Monitoring of the structure of siliceous mesoporous molecular sieves tailored using different synthesis conditions. Microporous Materials, 1997, 12, 93-106.	1.6	64
123	Facile synthesis of carbon dot-Au nanoraspberries and their application as high-performance counter electrodes in quantum dot-sensitized solar cells. Carbon, 2016, 96, 139-144.	10.3	63
124	Synthesis of magnetically separable ordered mesoporous carbons using furfuryl alcohol and cobalt nitrate in a silica template. Journal of Materials Chemistry, 2006, 16, 3409.	6.7	62
125	Dynamics of water diffusion in mesoporous zeolites. Microporous and Mesoporous Materials, 2011, 142, 236-244.	4.4	62
126	High catalytic performance of surfactant-directed nanocrystalline zeolites for liquid-phase Friedelâ€“Crafts alkylation of benzene due to external surfaces. Applied Catalysis A: General, 2014, 470, 420-426.	4.3	62

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127	Nanostructured carbon materials synthesized from mesoporous silica crystals by replication. Studies in Surface Science and Catalysis, 2004, 148, 241-260.	1.5	61
128	Exploring the hierarchy of transport phenomena in hierarchical pore systems by NMR diffusion measurement. Microporous and Mesoporous Materials, 2012, 164, 273-279.	4.4	61
129	Co₃O₄nanosheets on zeolite-templated carbon as an efficient oxygen electrocatalyst for a zincâ€“air battery. Journal of Materials Chemistry A, 2019, 7, 9988-9996.	10.3	60
130	31P, 27Al, and 129Xe NMR study of phosphorus-impregnated HZSM-5 zeolite catalysts. Journal of Catalysis, 1990, 124, 224-230.	6.2	57
131	Synthesis of highly ordered MCM-41 by micelle-packing control with mixed surfactants. Chemical Communications, 1999, , 1413-1414.	4.1	57
132	Ethanol-based synthesis of hierarchically porous carbon using nanocrystalline beta zeolite template for high-rate electrical double layer capacitor. Carbon, 2013, 60, 175-185.	10.3	57
133	Comprehensive Structure Analysis of Ordered Carbon Nanopipe Materials CMK-5 by X-ray Diffraction and Electron Microscopy. Chemistry of Materials, 2004, 16, 2274-2281.	6.7	55
134	Argon Adsorption on MCM-41 Mesoporous Crystal Studied by In Situ Synchrotron Powder X-ray Diffraction. Journal of Physical Chemistry C, 2008, 112, 10803-10813.	3.1	54
135	Anion binding properties of poly(vinylpyrrolidone) in aqueous solution studied by halide NMR spectroscopy. Macromolecules, 1991, 24, 1727-1730.	4.8	53
136	Template synthesis of ordered mesoporous organic polymeric materials using hydrophobic silylated KIT-6 mesoporous silica. Journal of Materials Chemistry, 2010, 20, 5544.	6.7	53
137	Catalytic Synergy on PtNi Bimetal Catalysts Driven by Interfacial Intermediate Structures. ACS Catalysis, 2020, 10, 10459-10467.	11.2	53
138	Preparation of nanosize Pt clusters using ion exchange of Pt(NH3) 4 2+ inside mesoporous channel of MCM-41. Catalysis Letters, 1996, 37, 29-33.	2.6	51
139	Investigation of Pt/Î³-Al2O3Catalysts Prepared by Solâ€“Gel Method. Journal of Catalysis, 1998, 173, 295-303.	6.2	50
140	X-ray absorption and NMR spectroscopic investigations of zinc glutarates prepared from various zinc sources and their catalytic activities in the copolymerization of carbon dioxide and propylene oxide. Journal of Catalysis, 2003, 218, 209-219.	6.2	50
141	Bulk crystal seeding in the generation of mesopores by organosilane surfactants in zeolite synthesis. Journal of Materials Chemistry A, 2014, 2, 11905-11912.	10.3	50
142	Mesoporous MFI zeolites as high performance catalysts for Diels-Alder cycloaddition of bio-derived dimethylfuran and ethylene to renewable p-xylene. Applied Catalysis B: Environmental, 2017, 206, 490-500.	20.2	50
143	Three-dimensional real-space crystallography of MCM-48 mesoporous silica revealed by scanning transmission electron tomography. Chemical Physics Letters, 2006, 418, 540-543.	2.6	49
144	129Xe n.m.r. of Y3+-, La3+-, and Ce3+-exchanged X zeolites. Zeolites, 1994, 14, 427-432.	0.5	47

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145	PtZn Intermetallic Compound Nanoparticles in Mesoporous Zeolite Exhibiting High Catalyst Durability for Propane Dehydrogenation. ACS Catalysis, 2021, 11, 9233-9241.	11.2	46
146	Pore structure and graphitic surface nature of ordered mesoporous carbons probed by low-pressure nitrogen adsorption. Microporous and Mesoporous Materials, 2003, 60, 139-149.	4.4	45
147	A review of fine structures of nanoporous materials as evidenced by microscopic methods. Microscopy (Oxford, England), 2013, 62, 109-146.	1.5	44
148	Mesopore wall-catalyzed Friedelâ€“Crafts acylation of bulky aromatic compounds in MFI zeolite nanosponge. Catalysis Today, 2015, 243, 103-108.	4.4	44
149	Confinement of Supported Metal Catalysts at High Loading in the Mesopore Network of Hierarchical Zeolites, with Access via the Microporous Windows. ACS Catalysis, 2018, 8, 876-879.	11.2	44
150	Synthesis of sponge mesoporous silicas from lecithin/dodecylamine mixed-micelles in ethanol/water media: A route towards efficient biocatalysts. Microporous and Mesoporous Materials, 2007, 104, 103-114.	4.4	43
151	MFI zeolite nanosheets with post-synthetic Ti grafting for catalytic epoxidation of bulky olefins using H₂O₂. Chemical Communications, 2015, 51, 13102-13105.	4.1	42
152	Formation and growth of a ruthenium cluster in a Y zeolite supercage probed by xenon-129 NMR spectroscopy and xenon adsorption measurements. The Journal of Physical Chemistry, 1992, 96, 9922-9927.	2.9	41
153	Intracrystalline Diffusion in Mesoporous Zeolites. ChemPhysChem, 2012, 13, 1495-1499.	2.1	41
154	Atomic and electronic structure and chemical reactivity of metal clusters. Ultramicroscopy, 1986, 20, 125-133.	1.9	40
155	Application of Hierarchical MFI Zeolite for the Catalytic Pyrolysis of Japanese Larch. Journal of Nanoscience and Nanotechnology, 2010, 10, 355-359.	0.9	40
156	Coâ€development of Crystalline and Mesoscopic Order in Mesostructured Zeolite Nanosheets. Angewandte Chemie - International Edition, 2015, 54, 927-931.	13.8	40
157	Investigation of the Platinum Cluster Size and Location on Zeolite KL with 129Xe NMR, XAFS, and Xenon Adsorption. The Journal of Physical Chemistry, 1996, 100, 4996-5003.	2.9	39
158	Synthesis and hydrothermal stability of a disordered mesoporous molecular sieve. Studies in Surface Science and Catalysis, 1997, , 45-52.	1.5	39
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