

# Shutao Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120  
papers

4,037  
citations

36  
h-index

59  
g-index

133  
ext. papers

4,973  
ext. citations

9.1  
avg. IF

5.43  
L-index

#	Paper	IF	Citations
120	Correlating the Adsorption Preference and Mass Transfer of Xenon in RHO-Type Molecular Sieves. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6832-6838	3.8	1
119	Generating Assembled MFI Nanocrystals with Reduced b-Axis through Structure-Directing Agent Exchange Induced Recrystallization. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14078-14087	3.6	2
118	Generating Assembled MFI Nanocrystals with Reduced b-Axis through Structure-Directing Agent Exchange Induced Recrystallization. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 13959-13968	16.4	9
117	Molecular Routes of Dynamic Autocatalysis for Methanol-to-Hydrocarbons Reaction. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12038-12052	16.4	10
116	Investigation of Ethanol Conversion on H-ZSM-5 Zeolite by in Situ Solid-State NMR. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 12319-12328	4.1	1
115	Understanding the Fundamentals of Microporosity Upgrading in Zeolites: Increasing Diffusion and Catalytic Performances. <i>Advanced Science</i> , <b>2021</b> , 8, e2100001	13.6	7
114	Revealing the Specific Spatial Confinement in 8-membered Ring Cage-type Molecular Sieves via Solid-state NMR and Theoretical Calculations. <i>ChemCatChem</i> , <b>2021</b> , 13, 1299-1305	5.2	1
113	Dynamic Activation of C1 Molecules Evoked by Zeolite Catalysis. <i>ACS Central Science</i> , <b>2021</b> , 7, 681-687	16.8	5
112	Progresses of hyperpolarized <sup>129</sup> Xe NMR application in porous materials and catalysis. <i>Magnetic Resonance Letters</i> , <b>2021</b> , 1, 11-27		1
111	The first carbon-carbon bond formation mechanism in methanol-to-hydrocarbons process over chabazite zeolite. <i>Chem</i> , <b>2021</b> , 7, 2415-2428	16.2	6
110	A Bottom-Up Strategy for the Synthesis of Highly Siliceous Faujasite-Type Zeolite. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000272	24	19
109	Preparation of hierarchical SAPO-18 via alkaline/acid etching. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 300, 110156	5.3	2
108	Role of ball milling during Cs/X catalyst preparation and effects on catalytic performance in side-chain alkylation of toluene with methanol. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1268-1278	11.3	9
107	Capture and identification of coke precursors to elucidate the deactivation route of the methanol-to-olefin process over H-SAPO-34. <i>Chemical Communications</i> , <b>2020</b> , 56, 8063-8066	5.8	4
106	Methylcyclopentenyl Cations Linking Initial Stage and Highly Efficient Stage in Methanol-to-Hydrocarbon Process. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4510-4516	13.1	15
105	High Propylene Selectivity in Methanol Conversion over a Small-Pore SAPO Molecular Sieve with Ultra-Small Cage. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3741-3749	13.1	18
104	Molecular elucidating of an unusual growth mechanism for polycyclic aromatic hydrocarbons in confined space. <i>Nature Communications</i> , <b>2020</b> , 11, 1079	17.4	33

103	A facile strategy based on the metal-free design of carbon to deliver an insight into the active sites for liquid phase carbocatalysis. <i>Chemical Communications</i> , <b>2020</b> , 56, 3789-3792	5.8	1
102	Enhanced Propene/Propane Separation by Directional Decoration of the 12-Membered Rings of Mordenite with ZIF Fragments. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6765-6768	16.4	9
101	Electrolyte Solvation Manipulation Enables Unprecedented Room-Temperature Calcium-Metal Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 12789-12793	3.6	2
100	Electrolyte Solvation Manipulation Enables Unprecedented Room-Temperature Calcium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12689-12693	16.4	27
99	Aluminous ZSM-48 Zeolite Synthesis Using a Hydroisomerization Intermediate Mimicking Allyltrimethylammonium Chloride as a Structure-Directing Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 11139-11148	3.9	6
98	Synthesis and Characterization of Fe-Substituted ZSM-5 Zeolite and Its Catalytic Performance for Alkylation of Benzene with Dilute Ethylene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 22413-22421	3.9	4
97	Differentiating Diffusivity in Different Channels of ZSM-5 Zeolite by Pulsed Field Gradient (PFG) NMR. <i>ChemCatChem</i> , <b>2020</b> , 12, 463-468	5.2	7
96	Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20672-20681	16.4	10
95	Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20853-20862	3.6	2
94	Insight into the Dual Cycle Mechanism of Methanol-to-Olefins Reaction over SAPO-34 Molecular Sieve by Isotopic Tracer Studies. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 1203-1208	2.2	2
93	Ultrafast Semi-Solid Processing of Highly Durable ZIF-8 Membranes for Propylene/Propane Separation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21909-21914	16.4	26
92	Methylcyclopentenyl cation mediated reaction route in methanol-to-olefins reaction over H-RUB-50 with small cavity. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 45, 25-30	12	3
91	Locking of phase transition in MOF ZIF-7: improved selectivity in mixed-matrix membranes for O <sub>2</sub> /N <sub>2</sub> separation. <i>Materials Horizons</i> , <b>2020</b> , 7, 223-228	14.4	8
90	Mapping the dynamics of methanol and xenon co-adsorption in SWNTs by in situ continuous-flow hyperpolarized Xe NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 3287-3293	3.6	4
89	Structural investigation of interlayer-expanded zeolite by hyperpolarized <sup>129</sup> Xe and <sup>1</sup> H NMR spectroscopy. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 288, 109555	5.3	6
88	Pentacoordinated Al -Stabilized Active Pd Structures on Al O -Coated Palladium Catalysts for Methane Combustion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12043-12048	16.4	49
87	Dissolution Equilibrium and In Situ Growth of HMCM-49 in Aqueous-Phase Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 9339-9342	3.9	2
86	Decorated Traditional Zeolites with Subunits of Metal-Organic Frameworks for CH <sub>4</sub> /N <sub>2</sub> Separation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10241-10244	16.4	36

85	Direct quantification of surface barriers for mass transfer in nanoporous crystalline materials. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	35
84	Tuning the product selectivity of SAPO-18 catalysts in MTO reaction via cavity modification. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 477-485	11.3	6
83	Direct probing of heterogeneity for adsorption and diffusion within a SAPO-34 crystal. <i>Chemical Communications</i> , <b>2019</b> , 55, 10693-10696	5.8	3
82	Rapid synthesis of metal-organic frameworks MIL-53(Cr). <i>Materials Letters</i> , <b>2019</b> , 255, 126519	3.3	7
81	Methanol to Olefins Reaction Route Based on Methylcyclopentadienes as Critical Intermediates. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7373-7379	13.1	34
80	Cavity-controlled diffusion in 8-membered ring molecular sieve catalysts for shape selective strategy. <i>Journal of Catalysis</i> , <b>2019</b> , 377, 51-62	7.3	23
79	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acid-Base Pair. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4172-4181	16.4	94
78	Photocatalytic Cleavage of C-C Bond in Lignin Models under Visible Light on Mesoporous Graphitic Carbon Nitride through $\pi$ -Stacking Interaction. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4761-4771	13.1	97
77	Increasing the selectivity to ethylene in the MTO reaction by enhancing diffusion limitation in the shell layer of SAPO-34 catalyst. <i>Chemical Communications</i> , <b>2018</b> , 54, 3146-3149	5.8	38
76	Carbon doping of hexagonal boron nitride porous materials toward CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1832-1839	13	85
75	Origin and Structural Characteristics of Tri-coordinated Extra-framework Aluminum Species in Dealuminated Zeolites. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10764-10774	16.4	61
74	Evolution of C-C Bond Formation in the Methanol-to-Olefins Process: From Direct Coupling to Autocatalysis. <i>ACS Catalysis</i> , <b>2018</b> , 8, 7356-7361	13.1	35
73	Silicoaluminophosphate molecular sieve DNL-6: Synthesis with a novel template, N,N'-dimethylethylenediamine, and its catalytic application. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 1511-1519	11.3	8
72	Exploring Brønsted acids confined in the 10-ring channels of the zeolite ferrierite. <i>CrystEngComm</i> , <b>2018</b> , 20, 699-702	3.3	8
71	The role of water in methane adsorption and diffusion within nanoporous silica investigated by hyperpolarized <sup>129</sup> Xe and <sup>1</sup> H PFG NMR spectroscopy. <i>Nano Research</i> , <b>2018</b> , 11, 360-369	10	13
70	Fast detection and structural identification of carbocations on zeolites by dynamic nuclear polarization enhanced solid-state NMR. <i>Chemical Science</i> , <b>2018</b> , 9, 8184-8193	9.4	24
69	A novel approach for facilitating the targeted synthesis of silicoaluminophosphates. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24186-24193	13	10
68	Influence of Al Coordinates on Hierarchical Structure and T Atoms Redistribution during Base Leaching of ZSM-5. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> ,	3.9	3

67	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10950-10963	13.1	43
66	Insight into the deactivation mode of methanol-to-olefins conversion over SAPO-34: Coke, diffusion, and acidic site accessibility. <i>Journal of Catalysis</i> , <b>2018</b> , 367, 306-314	7.3	45
65	Enhancing ethylene selectivity in MTO reaction by incorporating metal species in the cavity of SAPO-34 catalysts. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 1821-1831	11.3	17
64	Synthesis of nanosized SAPO-34 with the assistance of bifunctional amine and seeds. <i>Chemical Communications</i> , <b>2018</b> , 54, 11160-11163	5.8	23
63	In Situ Aluminum Migration into Zeolite Framework during Methanol-To-Propylene Reaction: An Innovation To Design Superior Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 8190-8199	3.9	11
62	Synthesis of SAPO-34 nanoaggregates with the assistance of an inexpensive three-in-one non-surfactant organosilane. <i>Chemical Communications</i> , <b>2017</b> , 53, 4985-4988	5.8	34
61	Insights into the aminothermal crystallization process of SAPO-34 and its comparison with hydrothermal system. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 248, 204-213	5.3	10
60	Direct Mechanism of the First Carbon-Carbon Bond Formation in the Methanol-to-Hydrocarbons Process. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9039-9043	16.4	95
59	Direct Mechanism of the First Carbon-Carbon Bond Formation in the Methanol-to-Hydrocarbons Process. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9167-9171	3.6	19
58	Direct structural identification of carbenium ions and investigation of host-guest interaction in the methanol to olefins reaction obtained by multinuclear NMR correlations. <i>Chemical Science</i> , <b>2017</b> , 8, 8309-8314	9.4	18
57	Innenrücktitelbild: Direct Mechanism of the First Carbon-Carbon Bond Formation in the Methanol-to-Hydrocarbons Process (Angew. Chem. 31/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9369-9369	3.6	
56	Interconnected Hierarchical ZSM-5 with Tunable Acidity Prepared by a Dealumination-Realumination Process: A Superior MTP Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26096-26106	9.5	52
55	Investigation of methanol conversion over high-Si beta zeolites and the reaction mechanism of their high propene selectivity. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 5882-5892	5.5	21
54	Advances in Catalysis for Methanol-to-Olefins Conversion. <i>Advances in Catalysis</i> , <b>2017</b> , 37-122	2.4	28
53	Changing the balance of the MTO reaction dual-cycle mechanism: Reactions over ZSM-5 with varying contact times. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1413-1422	11.3	35
52	Microporous Aluminophosphate ULM-6: Synthesis, NMR Assignment, and Its Transformation to AlPO <sub>4</sub> -14 Molecular Sieve. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 11854-11863	3.8	6
51	Direct Cu <sup>2+</sup> ion-exchanged into as-synthesized SAPO-34 and its catalytic application in the selective catalytic reduction of NO with NH <sub>3</sub> . <i>RSC Advances</i> , <b>2016</b> , 6, 12544-12552	3.7	22
50	Methanol to hydrocarbons reaction over H <sub>2</sub> zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. <i>Journal of Catalysis</i> , <b>2016</b> , 335, 47-57	7.3	46

49	SAPO-34 templated by dipropylamine and diisopropylamine: synthesis and catalytic performance in the methanol to olefin (MTO) reaction. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 4236-4244	3.6	25
48	Fluorescent cross-linked supramolecular polymers constructed from a novel self-complementary AABB-type heteromultitopic monomer. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 4039-45	3.9	14
47	Creation of hollow SAPO-34 single crystals via alkaline or acid etching. <i>Chemical Communications</i> , <b>2016</b> , 52, 5718-21	5.8	42
46	Direct observation of methylcyclopentenyl cations (MCP <sup>+</sup> ) and olefin generation in methanol conversion over TON zeolite. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 89-97	5.5	24
45	Hydrogenolysis of Glycerol to 1,3-propanediol under Low Hydrogen Pressure over WOX -Supported Single/Pseudo-Single Atom Pt Catalyst. <i>ChemSusChem</i> , <b>2016</b> , 9, 784-90	8.3	105
44	Organophosphorous surfactant-assistant synthesis of SAPO-34 molecular sieve with special morphology and improved MTO performance. <i>RSC Advances</i> , <b>2016</b> , 6, 47864-47872	3.7	25
43	A reconstruction strategy to synthesize mesoporous SAPO molecular sieve single crystals with high MTO catalytic activity. <i>Chemical Communications</i> , <b>2016</b> , 52, 6463-6	5.8	26
42	A low-temperature approach to synthesize low-silica SAPO-34 nanocrystals and their application in the methanol-to-olefins (MTO) reaction. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 7569-7578	5.5	59
41	Methanol conversion on ZSM-22, ZSM-35 and ZSM-5 zeolites: effects of 10-membered ring zeolite structures on methylcyclopentenyl cations and dual cycle mechanism. <i>RSC Advances</i> , <b>2016</b> , 6, 95855-95864	3.7	23
40	Hydrothermal synthesis of high silica zeolite Y using tetraethylammonium hydroxide as a structure-directing agent. <i>Chemical Communications</i> , <b>2016</b> , 52, 12765-12768	5.8	22
39	Synthesis of hierarchical beta zeolite by using a bifunctional cationic polymer and the improved catalytic performance. <i>RSC Advances</i> , <b>2015</b> , 5, 9852-9860	3.7	21
38	In situ growth and assembly of microporous aluminophosphate nanosheets into ordered architectures at low temperature and their enhanced catalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 7741-7749	1.3	28
37	Facile synthesis of morphology and size-controlled zirconium metal-organic framework UiO-66: the role of hydrofluoric acid in crystallization. <i>CrystEngComm</i> , <b>2015</b> , 17, 6434-6440	3.3	128
36	Activity enhancement of Nafion resin: Vapor-phase carbonylation of dimethoxymethane over Nafion-silica composite. <i>Applied Catalysis A: General</i> , <b>2015</b> , 497, 153-159	5.1	11
35	A Schiff base modified gold catalyst for green and efficient H <sub>2</sub> production from formic acid. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3204-3207	35.4	126
34	Cationic surfactant-assisted hydrothermal synthesis: an effective way to tune the crystalline phase and morphology of SAPO molecular sieves. <i>CrystEngComm</i> , <b>2015</b> , 17, 8555-8561	3.3	8
33	An approach to prepare nanosized HZSM-22 with enhanced lifetime in the methanol to hydrocarbon (MTH) reaction. <i>RSC Advances</i> , <b>2015</b> , 5, 88928-88935	3.7	15
32	Cavity Controls the Selectivity: Insights of Confinement Effects on MTO Reaction. <i>ACS Catalysis</i> , <b>2015</b> , 5, 661-665	13.1	104

31	Facile preparation of nanocrystal-assembled hierarchical mordenite zeolites with remarkable catalytic performance. <i>Chinese Journal of Catalysis</i> , <b>2015</b> , 36, 1910-1919	11.3	42
30	C-N and N-H Bond Metathesis Reactions Mediated by Carbon Dioxide. <i>ChemSusChem</i> , <b>2015</b> , 8, 2066-72	8.3	21
29	Dual template-directed synthesis of SAPO-34 nanosheet assemblies with improved stability in the methanol to olefins reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5608-5616	13	120
28	Investigation of the Strong Brønsted Acidity in a Novel SAPO-type Molecular Sieve, DNL-6. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 150127131937009	3.8	13
27	Promotion effect of Fe in mordenite zeolite on carbonylation of dimethyl ether to methyl acetate. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 1961-1968	5.5	68
26	Azide-functionalized hollow silica nanospheres for removal of antibiotics. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 444, 38-41	9.3	26
25	tert-Butyl hydroperoxide (TBHP)-mediated oxidative self-coupling of amines to imines over a MnO <sub>2</sub> catalyst. <i>Green Chemistry</i> , <b>2014</b> , 16, 2523-2527	10	46
24	Elucidating the olefin formation mechanism in the methanol to olefin reaction over AlPO-18 and SAPO-18. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 3268	5.5	56
23	A highly efficient Nafion-H catalyst for vapour phase carbonylation of dimethoxymethane. <i>RSC Advances</i> , <b>2014</b> , 4, 40999-41002	3.7	9
22	Synthesis of mesoporous ZSM-5 catalysts using different mesogenous templates and their application in methanol conversion for enhanced catalyst lifespan. <i>RSC Advances</i> , <b>2014</b> , 4, 21479-21491	3.7	74
21	A top-down approach to prepare silicoaluminophosphate molecular sieve nanocrystals with improved catalytic activity. <i>Chemical Communications</i> , <b>2014</b> , 50, 1845-7	5.8	88
20	Spatial confinement effects of cage-type SAPO molecular sieves on product distribution and coke formation in methanol-to-olefin reaction. <i>Catalysis Communications</i> , <b>2014</b> , 46, 36-40	3.2	98
19	Heptamethylbenzenium cation formation and the correlated reaction pathway during methanol-to-olefins conversion over DNL-6. <i>Catalysis Today</i> , <b>2014</b> , 226, 47-51	5.3	12
18	Polystyrene sulphonic acid resins with enhanced acid strength via macromolecular self-assembly within confined nanospace. <i>Nature Communications</i> , <b>2014</b> , 5, 3170	17.4	102
17	Synthesis of mesoporous ZSM-5 using a new gemini surfactant as a mesoporous directing agent: A crystallization transformation process. <i>Chinese Journal of Catalysis</i> , <b>2014</b> , 35, 1727-1739	11.3	10
16	Aminothermal synthesis of CHA-type SAPO molecular sieves and their catalytic performance in methanol to olefins (MTO) reaction. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14206	13	40
15	Direct Observation of Cyclic Carbenium Ions and Their Role in the Catalytic Cycle of the Methanol-to-Olefin Reaction over Chabazite Zeolites. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11778-11782	3.6	25
14	Synthesis of DNL-6 with a high concentration of Si (4 Al) environments and its application in CO <sub>2</sub> separation. <i>ChemSusChem</i> , <b>2013</b> , 6, 911-8	8.3	29

13	Study of crystallization process of SAPO-11 molecular sieve. <i>Chinese Journal of Catalysis</i> , <b>2013</b> , 34, 593-603	3.3	17
12	Nanosize-Enhanced Lifetime of SAPO-34 Catalysts in Methanol-to-Olefin Reactions. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 8214-8222	3.8	197
11	Investigation of the Crystallization Process of SAPO-35 and Si Distribution in the Crystals. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4048-4056	3.8	27
10	Direct observation of cyclic carbenium ions and their role in the catalytic cycle of the methanol-to-olefin reaction over chabazite zeolites. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11564-8	16.4	161
9	In situ solid-state NMR for heterogeneous catalysis: a joint experimental and theoretical approach. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 192-210	58.5	111
8	Generation of diamondoid hydrocarbons as confined compounds in SAPO-34 catalyst in the conversion of methanol. <i>Chemical Communications</i> , <b>2012</b> , 48, 3082-4	5.8	49
7	A novel solvothermal approach to synthesize SAPO molecular sieves using organic amines as the solvent and template. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6568		60
6	Observation of heptamethylbenzenium cation over SAPO-type molecular sieve DNL-6 under real MTO conversion conditions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 836-9	16.4	152
5	Enhanced in situ continuous-flow MAS NMR for reaction kinetics in the nanocages. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13722-7	16.4	43
4	Direct Observation of the Mesopores in ZSM-5 Zeolites with Hierarchical Porous Structures by Laser-Hyperpolarized $^{129}\text{Xe}$ NMR. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15375-15381	3.8	71
3	Effects of the Pore Structure and Acid-Base Property of X Zeolites on Side-Chain Alkylation of Toluene with Methanol. <i>Industrial &amp; Engineering Chemistry Research</i> ,	3.9	1
2	Increasing the Number of Aluminum Atoms in T 3 Sites of a Mordenite Zeolite by Low-Pressure $\text{SiCl}_4$ Treatment to Catalyze Dimethyl Ether Carbonylation. <i>Angewandte Chemie</i> ,	3.6	1
1	Selective Removal of Acid Sites in Mordenite Zeolite by Trimethylchlorosilane Silylation to Improve Dimethyl Ether Carbonylation Stability. <i>ACS Catalysis</i> , 4491-4500	13.1	0