

Shutao Xu

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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	Nanosize-Enhanced Lifetime of SAPO-34 Catalysts in Methanol-to-Olefin Reactions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8214-8222	3.8	197
119	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> , 2013 , 52, 11564-8	16.4	161
118	Observation of heptamethylbenzenium cation over SAPO-type molecular sieve DNL-6 under real MTO conversion conditions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 836-9	16.4	152
117	Facile synthesis of morphology and size-controlled zirconium metal-organic framework UiO-66: the role of hydrofluoric acid in crystallization. <i>CrystEngComm</i> , 2015 , 17, 6434-6440	3.3	128
116	A Schiff base modified gold catalyst for green and efficient H ₂ production from formic acid. <i>Energy and Environmental Science</i> , 2015 , 8, 3204-3207	35.4	126
115	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> , 2015 , 3, 5608-5616	13	120
114	In situ solid-state NMR for heterogeneous catalysis: a joint experimental and theoretical approach. <i>Chemical Society Reviews</i> , 2012 , 41, 192-210	58.5	111
113	Hydrogenolysis of Glycerol to 1,3-propanediol under Low Hydrogen Pressure over WO _x -Supported Single/Pseudo-Single Atom Pt Catalyst. <i>ChemSusChem</i> , 2016 , 9, 784-90	8.3	105
112	Cavity Controls the Selectivity: Insights of Confinement Effects on MTO Reaction. <i>ACS Catalysis</i> , 2015 , 5, 661-665	13.1	104
111	Polystyrene sulphonic acid resins with enhanced acid strength via macromolecular self-assembly within confined nanospace. <i>Nature Communications</i> , 2014 , 5, 3170	17.4	102
110	Spatial confinement effects of cage-type SAPO molecular sieves on product distribution and coke formation in methanol-to-olefin reaction. <i>Catalysis Communications</i> , 2014 , 46, 36-40	3.2	98
109	Photocatalytic Cleavage of C-C Bond in Lignin Models under Visible Light on Mesoporous Graphitic Carbon Nitride through π -Stacking Interaction. <i>ACS Catalysis</i> , 2018 , 8, 4761-4771	13.1	97
108	Direct Mechanism of the First Carbon-Carbon Bond Formation in the Methanol-to-Hydrocarbons Process. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9039-9043	16.4	95
107	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> , 2018 , 140, 4172-4181	16.4	94
106	A top-down approach to prepare silicoaluminophosphate molecular sieve nanocrystals with improved catalytic activity. <i>Chemical Communications</i> , 2014 , 50, 1845-7	5.8	88
105	Carbon doping of hexagonal boron nitride porous materials toward CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1832-1839	13	85
104	Synthesis of mesoporous ZSM-5 catalysts using different mesogenous templates and their application in methanol conversion for enhanced catalyst lifespan. <i>RSC Advances</i> , 2014 , 4, 21479-21491	3.7	74

103	Direct Observation of the Mesopores in ZSM-5 Zeolites with Hierarchical Porous Structures by Laser-Hyperpolarized ^{129}Xe NMR. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15375-15381	3.8	71
102	Promotion effect of Fe in mordenite zeolite on carbonylation of dimethyl ether to methyl acetate. <i>Catalysis Science and Technology</i> , 2015 , 5, 1961-1968	5.5	68
101	Origin and Structural Characteristics of Tri-coordinated Extra-framework Aluminum Species in Dealuminated Zeolites. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10764-10774	16.4	61
100	A novel solvothermal approach to synthesize SAPO molecular sieves using organic amines as the solvent and template. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6568		60
99	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> , 2016 , 6, 7569-7578	5.5	59
98	Elucidating the olefin formation mechanism in the methanol to olefin reaction over ALPO-18 and SAPO-18. <i>Catalysis Science and Technology</i> , 2014 , 4, 3268	5.5	56
97	Interconnected Hierarchical ZSM-5 with Tunable Acidity Prepared by a Dealumination-Realumination Process: A Superior MTP Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26096-26106	9.5	52
96	Pentacoordinated Al -Stabilized Active Pd Structures on Al O -Coated Palladium Catalysts for Methane Combustion. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12043-12048	16.4	49
95	Generation of diamondoid hydrocarbons as confined compounds in SAPO-34 catalyst in the conversion of methanol. <i>Chemical Communications</i> , 2012 , 48, 3082-4	5.8	49
94	Methanol to hydrocarbons reaction over H β zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. <i>Journal of Catalysis</i> , 2016 , 335, 47-57	7.3	46
93	tert-Butyl hydroperoxide (TBHP)-mediated oxidative self-coupling of amines to imines over a $\gamma\text{-MnO}_2$ catalyst. <i>Green Chemistry</i> , 2014 , 16, 2523-2527	10	46
92	Insight into the deactivation mode of methanol-to-olefins conversion over SAPO-34: Coke, diffusion, and acidic site accessibility. <i>Journal of Catalysis</i> , 2018 , 367, 306-314	7.3	45
91	Enhanced in situ continuous-flow MAS NMR for reaction kinetics in the nanocages. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13722-7	16.4	43
90	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. <i>ACS Catalysis</i> , 2018 , 8, 10950-10963	13.1	43
89	Creation of hollow SAPO-34 single crystals via alkaline or acid etching. <i>Chemical Communications</i> , 2016 , 52, 5718-21	5.8	42
88	Facile preparation of nanocrystal-assembled hierarchical mordenite zeolites with remarkable catalytic performance. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1910-1919	11.3	42
87	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> , 2013 , 1, 14206	13	40
86	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> , 2018 , 54, 3146-3149	5.8	38

85	Decorated Traditional Zeolites with Subunits of Metal-Organic Frameworks for CH ₄ /N ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10241-10244	16.4	36
84	Direct quantification of surface barriers for mass transfer in nanoporous crystalline materials. <i>Communications Chemistry</i> , 2019 , 2,	6.3	35
83	Changing the balance of the MTO reaction dual-cycle mechanism: Reactions over ZSM-5 with varying contact times. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1413-1422	11.3	35
82	Evolution of C-C Bond Formation in the Methanol-to-Olefins Process: From Direct Coupling to Autocatalysis. <i>ACS Catalysis</i> , 2018 , 8, 7356-7361	13.1	35
81	Synthesis of SAPO-34 nanoaggregates with the assistance of an inexpensive three-in-one non-surfactant organosilane. <i>Chemical Communications</i> , 2017 , 53, 4985-4988	5.8	34
80	Methanol to Olefins Reaction Route Based on Methylcyclopentadienes as Critical Intermediates. <i>ACS Catalysis</i> , 2019 , 9, 7373-7379	13.1	34
79	Molecular elucidating of an unusual growth mechanism for polycyclic aromatic hydrocarbons in confined space. <i>Nature Communications</i> , 2020 , 11, 1079	17.4	33
78	Synthesis of DNL-6 with a high concentration of Si (4 Al) environments and its application in CO ₂ separation. <i>ChemSusChem</i> , 2013 , 6, 911-8	8.3	29
77	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> , 2015 , 3, 7741-7749	13	28
76	Advances in Catalysis for Methanol-to-Olefins Conversion. <i>Advances in Catalysis</i> , 2017 , 37-122	2.4	28
75	Electrolyte Solvation Manipulation Enables Unprecedented Room-Temperature Calcium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12689-12693	16.4	27
74	Investigation of the Crystallization Process of SAPO-35 and Si Distribution in the Crystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4048-4056	3.8	27
73	Azide-functionalized hollow silica nanospheres for removal of antibiotics. <i>Journal of Colloid and Interface Science</i> , 2015 , 444, 38-41	9.3	26
72	Ultrafast Semi-Solid Processing of Highly Durable ZIF-8 Membranes for Propylene/Propane Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21909-21914	16.4	26
71	A reconstruction strategy to synthesize mesoporous SAPO molecular sieve single crystals with high MTO catalytic activity. <i>Chemical Communications</i> , 2016 , 52, 6463-6	5.8	26
70	SAPO-34 templated by dipropylamine and diisopropylamine: synthesis and catalytic performance in the methanol to olefin (MTO) reaction. <i>New Journal of Chemistry</i> , 2016 , 40, 4236-4244	3.6	25
69	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> , 2013 , 125, 11778-11782	3.6	25
68	Organophosphorous surfactant-assistant synthesis of SAPO-34 molecular sieve with special morphology and improved MTO performance. <i>RSC Advances</i> , 2016 , 6, 47864-47872	3.7	25

67	Direct observation of methylcyclopentenyl cations (MCP+) and olefin generation in methanol conversion over TON zeolite. <i>Catalysis Science and Technology</i> , 2016 , 6, 89-97	5.5	24
66	Fast detection and structural identification of carbocations on zeolites by dynamic nuclear polarization enhanced solid-state NMR. <i>Chemical Science</i> , 2018 , 9, 8184-8193	9.4	24
65	Cavity-controlled diffusion in 8-membered ring molecular sieve catalysts for shape selective strategy. <i>Journal of Catalysis</i> , 2019 , 377, 51-62	7.3	23
64	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> , 2016 , 6, 95855-95867	2.7	23
63	Synthesis of nanosized SAPO-34 with the assistance of bifunctional amine and seeds. <i>Chemical Communications</i> , 2018 , 54, 11160-11163	5.8	23
62	Direct Cu ²⁺ ion-exchanged into as-synthesized SAPO-34 and its catalytic application in the selective catalytic reduction of NO with NH ₃ . <i>RSC Advances</i> , 2016 , 6, 12544-12552	3.7	22
61	Hydrothermal synthesis of high silica zeolite Y using tetraethylammonium hydroxide as a structure-directing agent. <i>Chemical Communications</i> , 2016 , 52, 12765-12768	5.8	22
60	Synthesis of hierarchical beta zeolite by using a bifunctional cationic polymer and the improved catalytic performance. <i>RSC Advances</i> , 2015 , 5, 9852-9860	3.7	21
59	Investigation of methanol conversion over high-Si beta zeolites and the reaction mechanism of their high propene selectivity. <i>Catalysis Science and Technology</i> , 2017 , 7, 5882-5892	5.5	21
58	C-N and N-H Bond Metathesis Reactions Mediated by Carbon Dioxide. <i>ChemSusChem</i> , 2015 , 8, 2066-72	8.3	21
57	Direct Mechanism of the First Carbon-Carbon Bond Formation in the Methanol-to-Hydrocarbons Process. <i>Angewandte Chemie</i> , 2017 , 129, 9167-9171	3.6	19
56	A Bottom-Up Strategy for the Synthesis of Highly Siliceous Faujasite-Type Zeolite. <i>Advanced Materials</i> , 2020 , 32, e2000272	24	19
55	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> , 2017 , 8, 8309-8314	9.4	18
54	High Propylene Selectivity in Methanol Conversion over a Small-Pore SAPO Molecular Sieve with Ultra-Small Cage. <i>ACS Catalysis</i> , 2020 , 10, 3741-3749	13.1	18
53	Study of crystallization process of SAPO-11 molecular sieve. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 593-603	6.3	17
52	Enhancing ethylene selectivity in MTO reaction by incorporating metal species in the cavity of SAPO-34 catalysts. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1821-1831	11.3	17
51	An approach to prepare nanosized HZSM-22 with enhanced lifetime in the methanol to hydrocarbon (MTH) reaction. <i>RSC Advances</i> , 2015 , 5, 88928-88935	3.7	15
50	Methylcyclopentenyl Cations Linking Initial Stage and Highly Efficient Stage in Methanol-to-Hydrocarbon Process. <i>ACS Catalysis</i> , 2020 , 10, 4510-4516	13.1	15

49	Fluorescent cross-linked supramolecular polymers constructed from a novel self-complementary AABB-type heteromultitopic monomer. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 4039-45	3.9	14
48	Investigation of the Strong Brønsted Acidity in a Novel SAPO-type Molecular Sieve, DNL-6. <i>Journal of Physical Chemistry C</i> , 2015 , 150127131937009	3.8	13
47	The role of water in methane adsorption and diffusion within nanoporous silica investigated by hyperpolarized ¹²⁹ Xe and ¹ H PFG NMR spectroscopy. <i>Nano Research</i> , 2018 , 11, 360-369	10	13
46	Heptamethylbenzenium cation formation and the correlated reaction pathway during methanol-to-olefins conversion over DNL-6. <i>Catalysis Today</i> , 2014 , 226, 47-51	5.3	12
45	Activity enhancement of Nafion resin: Vapor-phase carbonylation of dimethoxymethane over Nafion-silica composite. <i>Applied Catalysis A: General</i> , 2015 , 497, 153-159	5.1	11
44	In Situ Aluminum Migration into Zeolite Framework during Methanol-To-Propylene Reaction: An Innovation To Design Superior Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8190-8199	3.9	11
43	Insights into the aminothermal crystallization process of SAPO-34 and its comparison with hydrothermal system. <i>Microporous and Mesoporous Materials</i> , 2017 , 248, 204-213	5.3	10
42	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> , 2014 , 35, 1727-1739	11.3	10
41	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> , 2020 , 59, 20672-20681	16.4	10
40	Molecular Routes of Dynamic Autocatalysis for Methanol-to-Hydrocarbons Reaction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12038-12052	16.4	10
39	A novel approach for facilitating the targeted synthesis of silicoaluminophosphates. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24186-24193	13	10
38	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> , 2020 , 41, 1268-1278	11.3	9
37	Enhanced Propene/Propane Separation by Directional Decoration of the 12-Membered Rings of Mordenite with ZIF Fragments. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6765-6768	16.4	9
36	A highly efficient Nafion-H catalyst for vapour phase carbonylation of dimethoxymethane. <i>RSC Advances</i> , 2014 , 4, 40999-41002	3.7	9
35	Generating Assembled MFI Nanocrystals with Reduced b-Axis through Structure-Directing Agent Exchange Induced Recrystallization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13959-13968	16.4	9
34	Cationic surfactant-assisted hydrothermal synthesis: an effective way to tune the crystalline phase and morphology of SAPO molecular sieves. <i>CrystEngComm</i> , 2015 , 17, 8555-8561	3.3	8
33	Silicoaluminophosphate molecular sieve DNL-6: Synthesis with a novel template, N,N'-dimethylethylenediamine, and its catalytic application. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1511-1519	11.3	8
32	Locking of phase transition in MOF ZIF-7: improved selectivity in mixed-matrix membranes for O ₂ /N ₂ separation. <i>Materials Horizons</i> , 2020 , 7, 223-228	14.4	8

31	Exploring Brønsted acids confined in the 10-ring channels of the zeolite ferrierite. <i>CrystEngComm</i> , 2018 , 20, 699-702	3.3	8
30	Rapid synthesis of metal-organic frameworks MIL-53(Cr). <i>Materials Letters</i> , 2019 , 255, 126519	3.3	7
29	Differentiating Diffusivity in Different Channels of ZSM-5 Zeolite by Pulsed Field Gradient (PFG) NMR. <i>ChemCatChem</i> , 2020 , 12, 463-468	5.2	7
28	Understanding the Fundamentals of Microporosity Upgrading in Zeolites: Increasing Diffusion and Catalytic Performances. <i>Advanced Science</i> , 2021 , 8, e2100001	13.6	7
27	Structural investigation of interlayer-expanded zeolite by hyperpolarized ¹²⁹ Xe and ¹ H NMR spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2019 , 288, 109555	5.3	6
26	Tuning the product selectivity of SAPO-18 catalysts in MTO reaction via cavity modification. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 477-485	11.3	6
25	Microporous Aluminophosphate ULM-6: Synthesis, NMR Assignment, and Its Transformation to ALPO4-14 Molecular Sieve. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11854-11863	3.8	6
24	Aluminous ZSM-48 Zeolite Synthesis Using a Hydroisomerization Intermediate Mimicking Allyltrimethylammonium Chloride as a Structure-Directing Agent. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11139-11148	3.9	6
23	The first carbon-carbon bond formation mechanism in methanol-to-hydrocarbons process over chabazite zeolite. <i>CheM</i> , 2021 , 7, 2415-2428	16.2	6
22	Dynamic Activation of C1 Molecules Evoked by Zeolite Catalysis. <i>ACS Central Science</i> , 2021 , 7, 681-687	16.8	5
21	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> , 2019 , 21, 3287-3293	3.6	4
20	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> , 2020 , 56, 8063-8066	5.8	4
19	Synthesis and Characterization of Fe-Substituted ZSM-5 Zeolite and Its Catalytic Performance for Alkylation of Benzene with Dilute Ethylene. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22413-22421	3.9	4
18	Direct probing of heterogeneity for adsorption and diffusion within a SAPO-34 crystal. <i>Chemical Communications</i> , 2019 , 55, 10693-10696	5.8	3
17	Methylcyclopentenyl cation mediated reaction route in methanol-to-olefins reaction over H-RUB-50 with small cavity. <i>Journal of Energy Chemistry</i> , 2020 , 45, 25-30	12	3
16	Influence of Al Coordinates on Hierarchical Structure and T Atoms Redistribution during Base Leaching of ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2018 ,	3.9	3
15	Dissolution Equilibrium and In Situ Growth of HMCM-49 in Aqueous-Phase Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9339-9342	3.9	2
14	Preparation of hierarchical SAPO-18 via alkaline/acid etching. <i>Microporous and Mesoporous Materials</i> , 2020 , 300, 110156	5.3	2

13	Electrolyte Solvation Manipulation Enables Unprecedented Room-Temperature Calcium-Metal Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 12789-12793	3.6	2
12	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> , 2020 , 132, 20853-20862	3.6	2
11	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> , 2020 , 36, 1203-1208	2.2	2
10	Generating Assembled MFI Nanocrystals with Reduced b-Axis through Structure-Directing Agent Exchange Induced Recrystallization. <i>Angewandte Chemie</i> , 2021 , 133, 14078-14087	3.6	2
9	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> , 2020 , 56, 3789-3792	5.8	1
8	Correlating the Adsorption Preference and Mass Transfer of Xenon in RHO-Type Molecular Sieves. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6832-6838	3.8	1
7	Investigation of Ethanol Conversion on H-ZSM-5 Zeolite by in Situ Solid-State NMR. <i>Energy & Fuels</i> , 2021 , 35, 12319-12328	4.1	1
6	Revealing the Specific Spatial Confinement in 8-membered Ring Cage-type Molecular Sieves via Solid-state NMR and Theoretical Calculations. <i>ChemCatChem</i> , 2021 , 13, 1299-1305	5.2	1
5	Progresses of hyperpolarized ¹²⁹ Xe NMR application in porous materials and catalysis. <i>Magnetic Resonance Letters</i> , 2021 , 1, 11-27		1
4	Effects of the Pore Structure and AcidBase Property of X Zeolites on Side-Chain Alkylation of Toluene with Methanol. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	1
3	Increasing the Number of Aluminum Atoms in T 3 Sites of a Mordenite Zeolite by Low-Pressure SiCl ₄ Treatment to Catalyze Dimethyl Ether Carbonylation. <i>Angewandte Chemie</i> ,	3.6	1
2	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
1	Innenstruktur: Direct Mechanism of the First Carbon-Carbon Bond Formation in the Methanol-to-Hydrocarbons Process (Angew. Chem. 31/2017). <i>Angewandte Chemie</i> , 2017 , 129, 9369-9369 ^{3.6}		