

# Manuel Moliner

## List of Publications by Citations

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118  
papers

8,026  
citations

46  
h-index

88  
g-index

127  
ext. papers

9,215  
ext. citations

9.6  
avg. IF

6.46  
L-index

#	Paper	IF	Citations
118	Tin-containing zeolites are highly active catalysts for the isomerization of glucose in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6164-8	11.5	750
117	Mechanism of glucose isomerization using a solid Lewis acid catalyst in water. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8954-7	16.4	547
116	One-Pot Synthesis of 5-(Hydroxymethyl)furfural from Carbohydrates using Tin-Beta Zeolite. <i>ACS Catalysis</i> , <b>2011</b> , 1, 408-410	13.1	544
115	The ITQ-37 mesoporous chiral zeolite. <i>Nature</i> , <b>2009</b> , 458, 1154-7	50.4	463
114	High-throughput synthesis and catalytic properties of a molecular sieve with 18- and 10-member rings. <i>Nature</i> , <b>2006</b> , 443, 842-5	50.4	410
113	Metalloenzyme-like catalyzed isomerizations of sugars by Lewis acid zeolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 9727-32	11.5	303
112	Reversible Transformation of Pt Nanoparticles into Single Atoms inside High-Silica Chabazite Zeolite. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15743-15750	16.4	247
111	Multipore zeolites: synthesis and catalytic applications. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3560-79	16.4	237
110	Towards the rational design of efficient organic structure-directing agents for zeolite synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13880-9	16.4	225
109	Synthesis Strategies for Preparing Useful Small Pore Zeolites and Zeotypes for Gas Separations and Catalysis. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 246-258	9.6	222
108	Cu-SSZ-39, an active and hydrothermally stable catalyst for the selective catalytic reduction of NOx. <i>Chemical Communications</i> , <b>2012</b> , 48, 8264-6	5.8	169
107	"Ab initio" synthesis of zeolites for preestablished catalytic reactions. <i>Science</i> , <b>2017</b> , 355, 1051-1054	33.3	154
106	Structure and catalytic properties of the most complex intergrown zeolite ITQ-39 determined by electron crystallography. <i>Nature Chemistry</i> , <b>2012</b> , 4, 188-94	17.6	151
105	State of the art of Lewis acid-containing zeolites: lessons from fine chemistry to new biomass transformation processes. <i>Dalton Transactions</i> , <b>2014</b> , 43, 4197-208	4.3	148
104	Rational direct synthesis methodology of very active and hydrothermally stable Cu-SAPO-34 molecular sieves for the SCR of NOx. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 127, 273-280	21.8	134
103	Effect of Cage Size on the Selective Conversion of Methanol to Light Olefins. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2490-2495	11.2	112
102	High yield synthesis of high-silica chabazite by combining the role of zeolite precursors and tetraethylammonium: SCR of NOx. <i>Chemical Communications</i> , <b>2015</b> , 51, 9965-8	5.8	98

101	A Machine Learning Approach to Zeolite Synthesis Enabled by Automatic Literature Data Extraction. <i>ACS Central Science</i> , <b>2019</b> , 5, 892-899	16.8	96
100	Impact of Controlling the Site Distribution of Al Atoms on Catalytic Properties in Ferrierite-Type Zeolites. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1096-1102	3.8	96
99	Efficient One-Pot Preparation of Cu-SSZ-13 Materials using Cooperative OSDAs for their Catalytic Application in the SCR of NOx. <i>ChemCatChem</i> , <b>2013</b> , 5, 3316-3323	5.2	94
98	Synthesis, characterization and reactivity of high hydrothermally stable Cu-SAPO-34 materials prepared by one-pot processes. <i>Journal of Catalysis</i> , <b>2014</b> , 314, 73-82	7.3	93
97	Mechanism of Glucose Isomerization Using a Solid Lewis Acid Catalyst in Water. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9138-9141	3.6	85
96	Synthesis of an extra-large molecular sieve using proton sponges as organic structure-directing agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3749-3754	11.5	83
95	Building Zeolites from Precrystallized Units: Nanoscale Architecture. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15330-15353	16.4	81
94	Synthesis and characterization of the all-silica pure polymorph C and an enriched polymorph B intergrowth of zeolite beta. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 8013-5	16.4	81
93	Rational design and HT techniques allow the synthesis of new IWR zeolite polymorphs. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 4216-7	16.4	76
92	A new aluminosilicate molecular sieve with a system of pores between those of ZSM-5 and beta zeolite. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 9497-505	16.4	75
91	Increasing stability and productivity of lipase enzyme by encapsulation in a porous organic-inorganic system. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 118, 334-340	5.3	74
90	Synthesis of reaction-adapted zeolites as methanol-to-olefins catalysts with mimics of reaction intermediates as organic structure-directing agents. <i>Nature Catalysis</i> , <b>2018</b> , 1, 547-554	36.5	73
89	Efficient synthesis of the Cu-SSZ-39 catalyst for DeNOx applications. <i>Chemical Communications</i> , <b>2015</b> , 51, 11030-3	5.8	72
88	A New Mapping/Exploration Approach for HT Synthesis of Zeolites. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3287-3296	9.6	69
87	Nanocrystalline SSZ-39 zeolite as an efficient catalyst for the methanol-to-olefin (MTO) process. <i>Chemical Communications</i> , <b>2016</b> , 52, 6072-5	5.8	67
86	Synthesis and Structure of Polymorph B of Zeolite Beta. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3218-3223	9.6	67
85	Synthesis methodology, stability, acidity, and catalytic behavior of the 18 $\times$ 18 $\times$ 10 member ring pores ITQ-33 zeolite. <i>Journal of Catalysis</i> , <b>2008</b> , 254, 101-109	7.3	66
84	Synthesis design and structure of a multipore zeolite with interconnected 12- and 10-MR channels. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6473-8	16.4	64

83	Discovery of a new catalytically active and selective zeolite (ITQ-30) by high-throughput synthesis techniques. <i>Journal of Catalysis</i> , <b>2006</b> , 241, 312-318	7.3	60
82	Direct synthesis design of Cu-SAPO-18, a very efficient catalyst for the SCR of NO <sub>x</sub> . <i>Journal of Catalysis</i> , <b>2014</b> , 319, 36-43	7.3	59
81	High-silica nanocrystalline Beta zeolites: efficient synthesis and catalytic application. <i>Chemical Science</i> , <b>2016</b> , 7, 102-108	9.4	58
80	Advances in the synthesis of titanosilicates: From the medium pore TS-1 zeolite to highly-accessible ordered materials. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 189, 31-40	5.3	58
79	Application of artificial neural networks to high-throughput synthesis of zeolites. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 78, 73-81	5.3	57
78	Cu-zeolite catalysts for NO <sub>x</sub> removal by selective catalytic reduction with NH <sub>3</sub> and coupled to NO storage/reduction monolith in diesel engine exhaust aftertreatment systems. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 187, 419-427	21.8	55
77	Integrating high-throughput characterization into combinatorial heterogeneous catalysis: unsupervised construction of quantitative structure/property relationship models. <i>Journal of Catalysis</i> , <b>2005</b> , 232, 335-341	7.3	55
76	Synthesis of the TiBilicate Form of BEC Polymorph of Zeolite Assisted by Molecular Modeling. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19547-19554	3.8	52
75	Cage-based small-pore catalysts for NH <sub>3</sub> -SCR prepared by combining bulky organic structure directing agents with modified zeolites as reagents. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 125-136	21.8	49
74	Machine Learning Applied to Zeolite Synthesis: The Missing Link for Realizing High-Throughput Discovery. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 2971-2980	24.3	47
73	Rationales Design von effizienten organischen strukturdirigierenden Reagentien für die Zeolithsynthese. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14124-14134	3.6	47
72	Combining high-throughput experimentation, advanced data modeling and fundamental knowledge to develop catalysts for the epoxidation of large olefins and fatty esters. <i>Journal of Catalysis</i> , <b>2008</b> , 258, 25-34	7.3	46
71	Metal-containing zeolites as efficient catalysts for the transformation of highly valuable chiral biomass-derived products. <i>Green Chemistry</i> , <b>2013</b> , 15, 2101	10	42
70	From metal-supported oxides to well-defined metal site zeolites: the next generation of passive NO <sub>x</sub> adsorbers for low-temperature control of emissions from diesel engines. <i>Reaction Chemistry and Engineering</i> , <b>2019</b> , 4, 223-234	4.9	41
69	Making Nanosized CHA Zeolites with Controlled Al Distribution for Optimizing Methanol-to-Olefin Performance. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 14631-14635	4.8	38
68	Improving the catalytic performance of SAPO-18 for the methanol-to-olefins (MTO) reaction by controlling the Si distribution and crystal size. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 2796-2806	5.5	38
67	Iron-Containing SSZ-39 (AEI) Zeolite: An Active and Stable High-Temperature NH <sub>3</sub> -SCR Catalyst. <i>ChemCatChem</i> , <b>2017</b> , 9, 1754-1757	5.2	37
66	Zeolite synthesis modelling with support vector machines: a combinatorial approach. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2007</b> , 10, 13-24	1.3	36

65	Fe-Containing Zeolites for NH <sub>3</sub> -SCR of NO <sub>x</sub> : Effect of Structure, Synthesis Procedure, and Chemical Composition on Catalytic Performance and Stability. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13404-13414	4.8	35
64	Multiporige Zeolithe: Synthese und Anwendungen bei der Katalyse. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3630-3649	3.3	33
63	Design of a full-profile-matching solution for high-throughput analysis of multiphase samples through powder X-ray diffraction. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 4258-69	4.8	32
62	Efficient Oligomerization of Pentene into Liquid Fuels on Nanocrystalline Beta Zeolites. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6170-6178	13.1	30
61	Trapping of Metal Atoms and Metal Clusters by Chabazite under Severe Redox Stress. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9520-9528	13.1	30
60	A reliable methodology for high throughput identification of a mixture of crystallographic phases from powder X-ray diffraction data. <i>CrystEngComm</i> , <b>2008</b> , 10, 1321	3.3	29
59	Synthesis of Expanded Titanosilicate MWW-Related Materials from a Pure Silica Precursor. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4371-4375	9.6	28
58	Impact of Zeolite Framework Composition and Flexibility on Methanol-To-Olefins Selectivity: Confinement or Diffusion?. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19708-19715	16.4	27
57	Synthesis of micro- and mesoporous molecular sieves at room temperature and neutral pH catalyzed by functional analogues of silicatein. <i>Chemical Communications</i> , <b>2006</b> , 3137-9	5.8	27
56	Simple organic structure directing agents for synthesizing nanocrystalline zeolites. <i>Chemical Science</i> , <b>2017</b> , 8, 8138-8149	9.4	26
55	Direct Synthesis of Functional Zeolitic Materials. <i>ISRN Materials Science</i> , <b>2012</b> , 2012, 1-24		25
54	Chemical and Structural Parameter Connecting Cavity Architecture, Confined Hydrocarbon Pool Species, and MTO Product Selectivity in Small-Pore Cage-Based Zeolites. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11542-11551	13.1	25
53	Self-Assembled Aromatic Molecules as Efficient Organic Structure Directing Agents to Synthesize the Silicoaluminophosphate SAPO-42 with Isolated Si Species. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2981-2989	9.6	23
52	Prediction of ITQ-21 Zeolite Phase Crystallinity: Parametric Versus Non-parametric Strategies. <i>QSAR and Combinatorial Science</i> , <b>2007</b> , 26, 255-272		23
51	Discovering Relationships between OSDAs and Zeolites through Data Mining and Generative Neural Networks. <i>ACS Central Science</i> , <b>2021</b> , 7, 858-867	16.8	21
50	DoE framework for catalyst development based on soft computing techniques. <i>Computers and Chemical Engineering</i> , <b>2009</b> , 33, 225-238	4	20
49	Biomimetic synthesis of microporous and mesoporous materials at room temperature and neutral pH, with application in electronics, controlled release of chemicals, and catalysis. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 1338	3.6	20
48	A priori control of zeolite phase competition and intergrowth with high-throughput simulations. <i>Science</i> , <b>2021</b> , 374, 308-315	33.3	20

47	Direct synthesis of a titanosilicate molecular sieve containing large and medium pores in its structure. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 164, 44-48	5.3	17
46	Biodiesel production by immobilized lipase on zeolites and related materials. <i>Studies in Surface Science and Catalysis</i> , <b>2008</b> , 174, 1011-1016	1.8	17
45	Synthesis and Characterization of the All-Silica Pure Polymorph C and an Enriched Polymorph B Intergrowth of Zeolite Beta. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 8181-8183	3.6	17
44	Synthesis of the Small Pore Silicoaluminophosphate STA-6 by Using Supramolecular Self-Assembled Organic Structure Directing Agents. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4346-4353	9.6	16
43	Design of Zeolites with Specific Architectures Using Self-Assembled Aromatic Organic Structure Directing Agents. <i>Topics in Catalysis</i> , <b>2015</b> , 58, 502-512	2.3	15
42	Deactivation and regeneration studies on Pd-containing medium pore zeolites as passive NO <sub>x</sub> adsorbers (PNAs) in cold-start applications. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 302, 110222	5.3	15
41	Increasing the stability of the Ge-containing extra-large pore ITQ-33 zeolite by post-synthetic acid treatments. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 267, 35-42	5.3	13
40	Conceptual similarities between zeolites and artificial enzymes. <i>Chemical Science</i> , <b>2019</b> , 10, 8009-8015	9.4	13
39	Direct synthesis of the aluminosilicate form of the small pore CDO zeolite with novel OSDAs and the expanded polymorphs. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 246, 147-157	5.3	12
38	Rigid/Flexible Organic Structure Directing Agents for Directing the Synthesis of Multipore Zeolites: A Computational Approach. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7711-7720	3.8	12
37	Modeling of EPR Parameters for Cu(II): Application to the Selective Reduction of NO <sub>x</sub> Catalyzed by Cu-Zeolites. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 810-832	2.3	12
36	Selective active site placement in Lewis acid zeolites and implications for catalysis of oxygenated compounds. <i>Chemical Science</i> , <b>2020</b> , 11, 10225-10235	9.4	12
35	Nanosized MCM-22 zeolite using simple non-surfactant organic growth modifiers: synthesis and catalytic applications. <i>Chemical Communications</i> , <b>2018</b> , 54, 9989-9992	5.8	11
34	Hybrid Organic-Inorganic Solids That Show Shape Selectivity. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2646-2652	9.6	11
33	In-Situ-Generated Active HF-hydride in Zeolites for the Tandem N-Alkylation of Amines with Benzyl Alcohol. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8049-8061	13.1	11
32	Synthese von Zeolithen aus vorkristallisierten Bausteinen: Architektur im Nanomaßstab. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15554-15578	3.6	10
31	Synthesis of Al-MTW with low Si/Al ratios by combining organic and inorganic structure directing agents. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 4140-4145	3.6	10
30	Monomers that form conducting polymers as structure-directing agents: synthesis of microporous molecular sieves encapsulating poly-para-phenylenevinylene. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 8733-8	4.8	10



29	Unraveling the Reaction Mechanism and Active Sites of MetalOrganic Frameworks for Glucose Transformations in Water: Experimental and Theoretical Studies. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16143-16155	8.3	9
28	CO2 hydrogenation using bifunctional catalysts based on K-promoted iron oxide and zeolite: influence of the zeolite structure and crystal size. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 5648-5658	5.5	9
27	Production of aromatics from biomass by computer-aided selection of the zeolite catalyst. <i>Green Chemistry</i> , <b>2020</b> , 22, 5123-5131	10	9
26	Optimal Operating Conditions of Coupled Sequential NOx Storage/Reduction and Cu/CHA Selective Catalytic Reduction Monoliths. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 30-39	2.3	8
25	Impact of Zeolite Framework Composition and Flexibility on Methanol-To-Olefins Selectivity: Confinement or Diffusion?. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19876-19883	3.6	8
24	ITQ-39 zeolite, an efficient catalyst for the conversion of low value naphtha fractions into diesel fuel: The role of pore size on molecular diffusion and reactivity. <i>Journal of Catalysis</i> , <b>2016</b> , 333, 127-138	7.3	7
23	Single-Site vs. Cluster Catalysis in High Temperature Oxidations. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15954-15962	16.4	7
22	General Aspects on Structure and Reactivity of Framework and Extra-framework Metals in Zeolite Materials. <i>Structure and Bonding</i> , <b>2018</b> , 53-90	0.9	6
21	The Limits of the Confinement Effect Associated to Cage Topology on the Control of the MTO Selectivity. <i>ChemCatChem</i> , <b>2021</b> , 13, 1578-1586	5.2	6
20	Supra-molecular assembly of aromatic proton sponges to direct the crystallization of extra-large-pore zeotypes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2014</b> , 470, 20140107	2.4	5
19	Tailoring Lewis/Brønsted acid properties of MOF nodes hydrothermal and solvothermal synthesis: simple approach with exceptional catalytic implications. <i>Chemical Science</i> , <b>2021</b> , 12, 10106-10115	9.4	5
18	Unusually Low Heat of Adsorption of CO on AlPO and SAPO Molecular Sieves. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 588712	5	4
17	Synthesis of highly stable metal-containing extra-large-pore molecular sieves. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	4
16	Experimental energetics of large and extra-large pore zeolites: Pure silica beta polymorph C (BEC) and Ge-containing ITQ-33. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 187, 77-81	5.3	4
15	Design and Synthesis of the Active Site Environment in Zeolite Catalysts for Selectively Manipulating Mechanistic Pathways. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10718-10726	16.4	4
14	Synthesis and structure of polymorph B of Beta zeolite. <i>Studies in Surface Science and Catalysis</i> , <b>2008</b> , 174, 233-236	1.8	3
13	Coordinatively Unsaturated Hf-MOF-808 Prepared via Hydrothermal Synthesis as a Bifunctional Catalyst for the Tandem N-Alkylation of Amines with Benzyl Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 15793-15806	8.3	3
12	Metalloenzyme-Inspired Ce-MOF Catalyst for Oxidative Halogenation Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31021-31030	9.5	3

11	Role of Supramolecular Chemistry During Templating Phenomenon in Zeolite Synthesis. <i>Structure and Bonding</i> , <b>2017</b> , 139-177	0.9	2
10	Ge-Based Hybrid Composites from Ge-Rich Zeolites as Highly Conductive and Stable Electronic Materials. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7723-7731	9.6	2
9	Zeolite structure determination using electron crystallography. <i>Studies in Surface Science and Catalysis</i> , <b>2008</b> , 174, 799-804	1.8	2
8	Synthesis methodology, acidity and catalytic behaviour of the 18 $\times$ 10 member ring pores ITQ-33 zeolite. <i>Studies in Surface Science and Catalysis</i> , <b>2008</b> , 174, 155-160	1.8	2
7	NH <sub>3</sub> -SCR catalysts for heavy-duty diesel vehicles: Preparation of CHA-type zeolites with low-cost templates. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 303, 120928	21.8	1
6	Data-Driven Design of Biselective Templates for Intergrowth Zeolites. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10689-10694	6.4	1
5	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1
4	Biomimetic synthesis of micro and mesoporous molecular sieves at room temperature and neutral pH. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 170, 145-150	1.8	0
3	Discovery of a new catalytically active and selective zeolite (ITQ-30) by high-throughput synthesis techniques. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 322-329	1.8	0
2	Single-Site vs. Cluster Catalysis in High Temperature Oxidations. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16090-16098	16.0	0
1	Study of disorders in zeolite ITQ-39 using structure projection reconstruction from through-focus series of HRTEM images <b>2016</b> , 283-284		