# Manuel Moliner

List of Publications by Year
in descending order

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|---|---|---|---|
| 116 papers | 10,197 citations | 38720 50 h-index | 33869 99 g-index |
| 127 all docs | 127 docs citations | 127 times ranked | 6868 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Tin-containing zeolites are highly active catalysts for the isomerization of glucose in water. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6164-6168. | 3.3 | 861 |
| 2 | Mechanism of Glucose Isomerization Using a Solid Lewis Acid Catalyst in Water. Angewandte Chemie - International Edition, 2010, 49, 8954-8957. | 7.2 | 612 |
| 3 | â€œOne-Potâ€•Synthesis of 5-(Hydroxymethyl)furfural from Carbohydrates using Tin-Beta Zeolite. ACS Catalysis, 2011, 1, 408-410. | 5.5 | 607 |
| 4 | The ITQ-37 mesoporous chiral zeolite. Nature, 2009, 458, 1154-1157. | 13.7 | 526 |
| 5 | High-throughput synthesis and catalytic properties of a molecular sieve with 18- and 10-member rings. Nature, 2006, 443, 842-845. | 13.7 | 473 |
| 6 | Metalloenzyme-like catalyzed isomerizations of sugars by Lewis acid zeolites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9727-9732. | 3.3 | 354 |
| 7 | Reversible Transformation of Pt Nanoparticles into Single Atoms inside High-Silica Chabazite Zeolite. Journal of the American Chemical Society, 2016, 138, 15743-15750. | 6.6 | 336 |
| 8 | Multipore Zeolites: Synthesis and Catalytic Applications. Angewandte Chemie - International Edition, 2015, 54, 3560-3579. | 7.2 | 296 |
| 9 | Towards the Rational Design of Efficient Organic Structureâ€Directing Agents for Zeolite Synthesis. Angewandte Chemie - International Edition, 2013, 52, 13880-13889. | 7.2 | 290 |
| 10 | Synthesis Strategies for Preparing Useful Small Pore Zeolites and Zeotypes for Gas Separations and Catalysis. Chemistry of Materials, 2014, 26, 246-258. | 3.2 | 267 |
| 11 | Cuâ€“SSZ-39, an active and hydrothermally stable catalyst for the selective catalytic reduction of NOx. Chemical Communications, 2012, 48, 8264. | 2.2 | 213 |
| 12 | â€œAb initioâ€•synthesis of zeolites for preestablished catalytic reactions. Science, 2017, 355, 1051-1054. | 6.0 | 204 |
| 13 | Structure and catalytic properties of the most complex intergrown zeolite ITQ-39 determined by electron crystallography. Nature Chemistry, 2012, 4, 188-194. | 6.6 | 178 |
| 14 | A Machine Learning Approach to Zeolite Synthesis Enabled by Automatic Literature Data Extraction. ACS Central Science, 2019, 5, 892-899. | 5.3 | 176 |
| 15 | State of the art of Lewis acid-containing zeolites: lessons from fine chemistry to new biomass transformation processes. Dalton Transactions, 2014, 43, 4197-4208. | 1.6 | 168 |
| 16 | Rational direct synthesis methodology of very active and hydrothermally stable Cu-SAPO-34 molecular sieves for the SCR of NOx. Applied Catalysis B: Environmental, 2012, 127, 273-280. | 10.8 | 152 |
| 17 | High yield synthesis of high-silica chabazite by combining the role of zeolite precursors and tetraethylammonium: SCR of NOx. Chemical Communications, 2015, 51, 9965-9968. | 2.2 | 131 |
| 18 | Effect of Cage Size on the Selective Conversion of Methanol to Light Olefins. ACS Catalysis, 2012, 2, 2490-2495. | 5.5 | 128 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Building Zeolites from Precrystallized Units: Nanoscale Architecture. Angewandte Chemie - International Edition, 2018, 57, 15330-15353. | 7.2 | 126 |
| 20 | Impact of Controlling the Site Distribution of Al Atoms on Catalytic Properties in Ferrierite-Type Zeolites. Journal of Physical Chemistry C, 2011, 115, 1096-1102. | 1.5 | 114 |
| 21 | Efficient Oneâ€Pot Preparation of Cuâ€SSZâ€13 Materials using Cooperative OSDAs for their Catalytic Application in the SCR of NO<sub><i>x</i></sub>. ChemCatChem, 2013, 5, 3316-3323. | 1.8 | 114 |
| 22 | Synthesis of reactionâ€adapted zeolites as methanol-to-olefins catalysts with mimics of reaction intermediates as organic structureâ€directing agents. Nature Catalysis, 2018, 1, 547-554. | 16.1 | 111 |
| 23 | Synthesis, characterization and reactivity of high hydrothermally stable Cu-SAPO-34 materials prepared by â€œone-potâ€•processes. Journal of Catalysis, 2014, 314, 73-82. | 3.1 | 106 |
| 24 | Synthesis of an extra-large molecular sieve using proton sponges as organic structure-directing agents. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3749-3754. | 3.3 | 103 |
| 25 | Efficient synthesis of the Cu-SSZ-39 catalyst for DeNOx applications. Chemical Communications, 2015, 51, 11030-11033. | 2.2 | 95 |
| 26 | Machine Learning Applied to Zeolite Synthesis: The Missing Link for Realizing High-Throughput Discovery. Accounts of Chemical Research, 2019, 52, 2971-2980. | 7.6 | 94 |
| 27 | Rational Design and HT Techniques Allow the Synthesis of New IWR Zeolite Polymorphs. Journal of the American Chemical Society, 2006, 128, 4216-4217. | 6.6 | 93 |
| 28 | Synthesis and Characterization of the All-Silica Pure Polymorph C and an Enriched Polymorph B Intergrowth of Zeolite Beta. Angewandte Chemie - International Edition, 2006, 45, 8013-8015. | 7.2 | 93 |
| 29 | A priori control of zeolite phase competition and intergrowth with high-throughput simulations. Science, 2021, 374, 308-315. | 6.0 | 90 |
| 30 | A New Aluminosilicate Molecular Sieve with a System of Pores between Those of ZSM-5 and Beta Zeolite. Journal of the American Chemical Society, 2011, 133, 9497-9505. | 6.6 | 86 |
| 31 | Advances in the synthesis of titanosilicates: From the medium pore TS-1 zeolite to highly-accessible ordered materials. Microporous and Mesoporous Materials, 2014, 189, 31-40. | 2.2 | 82 |
| 32 | High-silica nanocrystalline Beta zeolites: efficient synthesis and catalytic application. Chemical Science, 2016, 7, 102-108. | 3.7 | 82 |
| 33 | Increasing stability and productivity of lipase enzyme by encapsulation in a porous organicâ€“inorganic system. Microporous and Mesoporous Materials, 2009, 118, 334-340. | 2.2 | 81 |
| 34 | Application of artificial neural networks to high-throughput synthesis of zeolites. Microporous and Mesoporous Materials, 2005, 78, 73-81. | 2.2 | 80 |
| 35 | Synthesis and Structure of Polymorph B of Zeolite Beta. Chemistry of Materials, 2008, 20, 3218-3223. | 3.2 | 80 |
| 36 | Nanocrystalline SSZ-39 zeolite as an efficient catalyst for the methanol-to-olefin (MTO) process. Chemical Communications, 2016, 52, 6072-6075. | 2.2 | 80 |

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|---|---|---|---|
| 37 | Synthesis methodology, stability, acidity, and catalytic behavior of the 18Ã—1018Ã—10 member ring pores ITQ-33 zeolite. Journal of Catalysis, 2008, 254, 101-109. | 3.1 | 78 |
| 38 | A New Mapping/Exploration Approach for HT Synthesis of Zeolites. Chemistry of Materials, 2006, 18, 3287-3296. | 3.2 | 76 |
| 39 | Synthesis Design and Structure of a Multipore Zeolite with Interconnected 12- and 10-MR Channels. Journal of the American Chemical Society, 2012, 134, 6473-6478. | 6.6 | 75 |
| 40 | Direct synthesis design of Cu-SAPO-18, a very efficient catalyst for the SCR of NOx. Journal of Catalysis, 2014, 319, 36-43. | 3.1 | 74 |
| 41 | Cage-based small-pore catalysts for NH3-SCR prepared by combining bulky organic structure directing agents with modified zeolites as reagents. Applied Catalysis B: Environmental, 2017, 217, 125-136. | 10.8 | 73 |
| 42 | Cu-zeolite catalysts for NO x removal by selective catalytic reduction with NH 3 and coupled to NO storage/reduction monolith in diesel engine exhaust aftertreatment systems. Applied Catalysis B: Environmental, 2016, 187, 419-427. | 10.8 | 71 |
| 43 | Integrating high-throughput characterization into combinatorial heterogeneous catalysis: unsupervised construction of quantitative structure/property relationship models. Journal of Catalysis, 2005, 232, 335-341. | 3.1 | 67 |
| 44 | Discovery of a new catalytically active and selective zeolite (ITQ-30) by high-throughput synthesis techniques. Journal of Catalysis, 2006, 241, 312-318. | 3.1 | 67 |
| 45 | 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. Reaction Chemistry and Engineering, 2019, 4, 223-234. | 1.9 | 64 |
| 46 | Synthesis of the Tiâˆ'Silicate Form of BEC Polymorph of Î²-Zeolite Assisted by Molecular Modeling. Journal of Physical Chemistry C, 2008, 112, 19547-19554. | 1.5 | 58 |
| 47 | Making Nanosized CHA Zeolites with Controlled Al Distribution for Optimizing Methanolâ€toâ€Olefin Performance. Chemistry - A European Journal, 2018, 24, 14631-14635. | 1.7 | 57 |
| 48 | Discovering Relationships between OSDAs and Zeolites through Data Mining and Generative Neural Networks. ACS Central Science, 2021, 7, 858-867. | 5.3 | 57 |
| 49 | Improving the catalytic performance of SAPO-18 for the methanol-to-olefins (MTO) reaction by controlling the Si distribution and crystal size. Catalysis Science and Technology, 2016, 6, 2796-2806. | 2.1 | 55 |
| 50 | Impact of Zeolite Framework Composition and Flexibility on Methanolâ€Toâ€Olefins Selectivity: Confinement or Diffusion?. Angewandte Chemie - International Edition, 2020, 59, 19708-19715. | 7.2 | 52 |
| 51 | Metal-containing zeolites as efficient catalysts for the transformation of highly valuable chiral biomass-derived products. Green Chemistry, 2013, 15, 2101. | 4.6 | 51 |
| 52 | Chemical and Structural Parameter Connecting Cavity Architecture, Confined Hydrocarbon Pool Species, and MTO Product Selectivity in Small-Pore Cage-Based Zeolites. ACS Catalysis, 2019, 9, 11542-11551. | 5.5 | 51 |
| 53 | Trapping of Metal Atoms and Metal Clusters by Chabazite under Severe Redox Stress. ACS Catalysis, 2018, 8, 9520-9528. | 5.5 | 50 |
| 54 | Zeolite Synthesis Modelling with Support Vector Machines: A Combinatorial Approach. Combinatorial Chemistry and High Throughput Screening, 2007, 10, 13-24. | 0.6 | 49 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Ironâ€Containing SSZâ€39 (AEI) Zeolite: An Active and Stable Highâ€Temperature NH<sub>3</sub>â€SCR Catalyst. ChemCatChem, 2017, 9, 1754-1757. | 1.8 | 49 |
| 56 | Combining high-throughput experimentation, advanced data modeling and fundamental knowledge to develop catalysts for the epoxidation of large olefins and fatty esters. Journal of Catalysis, 2008, 258, 25-34. | 3.1 | 47 |
| 57 | Feâ€Containing Zeolites for NH<sub>3</sub>â€SCR of NO<sub><i>x</i></sub>: Effect of Structure, Synthesis Procedure, and Chemical Composition on Catalytic Performance and Stability. Chemistry - A European Journal, 2017, 23, 13404-13414. | 1.7 | 44 |
| 58 | Efficient Oligomerization of Pentene into Liquid Fuels on Nanocrystalline Beta Zeolites. ACS Catalysis, 2017, 7, 6170-6178. | 5.5 | 43 |
| 59 | Tailoring Lewis/BrÃ¸nsted acid properties of MOF nodes <i>via</i> hydrothermal and solvothermal synthesis: simple approach with exceptional catalytic implications. Chemical Science, 2021, 12, 10106-10115. | 3.7 | 40 |
| 60 | Simple organic structure directing agents for synthesizing nanocrystalline zeolites. Chemical Science, 2017, 8, 8138-8149. | 3.7 | 38 |
| 61 | Deactivation and regeneration studies on Pd-containing medium pore zeolites as passive NOx adsorbers (PNAs) in cold-start applications. Microporous and Mesoporous Materials, 2020, 302, 110222. | 2.2 | 38 |
| 62 | Design of a Fullâ€Profileâ€Matching Solution for Highâ€Throughput Analysis of Multiphase Samples Through Powder Xâ€ray Diffraction. Chemistry - A European Journal, 2009, 15, 4258-4269. | 1.7 | 36 |
| 63 | Synthesis of Expanded Titanosilicate MWW-Related Materials from a Pure Silica Precursor. Chemistry of Materials, 2012, 24, 4371-4375. | 3.2 | 34 |
| 64 | A reliable methodology for high throughput identification of a mixture of crystallographic phases from powder X-ray diffraction data. CrystEngComm, 2008, 10, 1321. | 1.3 | 33 |
| 65 | Self-Assembled Aromatic Molecules as Efficient Organic Structure Directing Agents to Synthesize the Silicoaluminophosphate SAPO-42 with Isolated Si Species. Chemistry of Materials, 2015, 27, 2981-2989. | 3.2 | 33 |
| 66 | DoE framework for catalyst development based on soft computing techniques. Computers and Chemical Engineering, 2009, 33, 225-238. | 2.0 | 29 |
| 67 | <i>In-Situ</i>-Generated Active Hf-hydride in Zeolites for the Tandem N-Alkylation of Amines with Benzyl Alcohol. ACS Catalysis, 2021, 11, 8049-8061. | 5.5 | 29 |
| 68 | Synthesis of micro- and mesoporous molecular sieves at room temperature and neutral pH catalyzed by functional analogues of silicatein. Chemical Communications, 2006, , 3137-3139. | 2.2 | 27 |
| 69 | Direct Synthesis of Functional Zeolitic Materials. ISRN Materials Science, 2012, 2012, 1-24. | 1.0 | 27 |
| 70 | Modeling of EPR Parameters for Cu(II): Application to the Selective Reduction of NOx Catalyzed by Cu-Zeolites. Topics in Catalysis, 2018, 61, 810-832. | 1.3 | 26 |
| 71 | Prediction of ITQ-21 Zeolite Phase Crystallinity: ParametricVersus Non-parametric Strategies. QSAR and Combinatorial Science, 2007, 26, 255-272. | 1.5 | 25 |
| 72 | Production of aromatics from biomass by computer-aided selection of the zeolite catalyst. Green Chemistry, 2020, 22, 5123-5131. | 4.6 | 25 |

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| 73 | Selective active site placement in Lewis acid zeolites and implications for catalysis of oxygenated compounds. Chemical Science, 2020, 11, 10225-10235. | 3.7 | 23 |
| 74 | Design and Synthesis of the Active Site Environment in Zeolite Catalysts for Selectively Manipulating Mechanistic Pathways. Journal of the American Chemical Society, 2021, 143, 10718-10726. | 6.6 | 23 |
| 75 | Coordinatively Unsaturated Hf-MOF-808 Prepared via Hydrothermal Synthesis as a Bifunctional Catalyst for the Tandem <i>N</i>-Alkylation of Amines with Benzyl Alcohol. ACS Sustainable Chemistry and Engineering, 2021, 9, 15793-15806. | 3.2 | 23 |
| 76 | Direct synthesis of a titanosilicate molecular sieve containing large and medium pores in its structure. Microporous and Mesoporous Materials, 2012, 164, 44-48. | 2.2 | 22 |
| 77 | Unusually Low Heat of Adsorption of CO2 on AlPO and SAPO Molecular Sieves. Frontiers in Chemistry, 2020, 8, 588712. | 1.8 | 21 |
| 78 | Singleâ€Site vs. Cluster Catalysis in High Temperature Oxidations. Angewandte Chemie - International Edition, 2021, 60, 15954-15962. | 7.2 | 21 |
| 79 | Biodiesel production by immobilized lipase on zeolites and related materials. Studies in Surface Science and Catalysis, 2008, 174, 1011-1016. | 1.5 | 20 |
| 80 | Biomimetic synthesis of microporous and mesoporous materials at room temperature and neutral pH, with application in electronics, controlled release of chemicals, and catalysis. New Journal of Chemistry, 2008, 32, 1338. | 1.4 | 20 |
| 81 | Conceptual similarities between zeolites and artificial enzymes. Chemical Science, 2019, 10, 8009-8015. | 3.7 | 20 |
| 82 | Metalloenzyme-Inspired Ce-MOF Catalyst for Oxidative Halogenation Reactions. ACS Applied Materials & Interfaces, 2021, 13, 31021-31030. | 4.0 | 20 |
| 83 | Synthesis of the Small Pore Silicoaluminophosphate STA-6 by Using Supramolecular Self-Assembled Organic Structure Directing Agents. Chemistry of Materials, 2014, 26, 4346-4353. | 3.2 | 19 |
| 84 | Unraveling the Reaction Mechanism and Active Sites of Metalâ€“Organic Frameworks for Glucose Transformations in Water: Experimental and Theoretical Studies. ACS Sustainable Chemistry and Engineering, 2020, 8, 16143-16155. | 3.2 | 19 |
| 85 | Design of Zeolites with Specific Architectures Using Self-Assembled Aromatic Organic Structure Directing Agents. Topics in Catalysis, 2015, 58, 502-512. | 1.3 | 18 |
| 86 | Increasing the stability of the Ge-containing extra-large pore ITQ-33 zeolite by post-synthetic acid treatments. Microporous and Mesoporous Materials, 2018, 267, 35-42. | 2.2 | 18 |
| 87 | The Limits of the Confinement Effect Associated to Cage Topology on the Control of the MTO Selectivity. ChemCatChem, 2021, 13, 1578-1586. | 1.8 | 18 |
| 88 | NH3-SCR catalysts for heavy-duty diesel vehicles: Preparation of CHA-type zeolites with low-cost templates. Applied Catalysis B: Environmental, 2022, 303, 120928. | 10.8 | 18 |
| 89 | Tunable CHA/AEI Zeolite Intergrowths with A Priori Biselective Organic Structureâ€Directing Agents: Controlling Enrichment and Implications for Selective Catalytic Reduction of NOx. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 18 |
| 90 | CO<sub>2</sub> hydrogenation using bifunctional catalysts based on K-promoted iron oxide and zeolite: influence of the zeolite structure and crystal size. Catalysis Science and Technology, 2020, 10, 5648-5658. | 2.1 | 15 |

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| 91 | Direct synthesis of the aluminosilicate form of the small pore CDO zeolite with novel OSDAs and the expanded polymorphs. Microporous and Mesoporous Materials, 2017, 246, 147-157. | 2.2 | 14 |
| 92 | Synthese von Zeolithen aus vorkristallisierten Bausteinen: Architektur im NanomaÃŸstab. Angewandte Chemie, 2018, 130, 15554-15578. | 1.6 | 14 |
| 93 | Nanosized MCM-22 zeolite using simple non-surfactant organic growth modifiers: synthesis and catalytic applications. Chemical Communications, 2018, 54, 9989-9992. | 2.2 | 14 |
| 94 | A Career in Catalysis: Avelino Corma. ACS Catalysis, 2022, 12, 7054-7123. | 5.5 | 14 |
| 95 | Rigid/Flexible Organic Structure Directing Agents for Directing the Synthesis of Multipore Zeolites: A Computational Approach. Journal of Physical Chemistry C, 2015, 119, 7711-7720. | 1.5 | 13 |
| 96 | Hybrid Organicâ˜'Inorganic Solids That Show Shape Selectivity. Chemistry of Materials, 2010, 22, 2646-2652. | 3.2 | 12 |
| 97 | Data-Driven Design of Biselective Templates for Intergrowth Zeolites. Journal of Physical Chemistry Letters, 2021, 12, 10689-10694. | 2.1 | 12 |
| 98 | Monomers That Form Conducting Polymers as Structureâ€Directing Agents: Synthesis of Microporous Molecular Sieves Encapsulating Polyâ€<i>para</i>â€phenylenevinylene. Chemistry - A European Journal, 2007, 13, 8733-8738. | 1.7 | 11 |
| 99 | Synthesis of Al-MTW with low Si/Al ratios by combining organic and inorganic structure directing agents. New Journal of Chemistry, 2016, 40, 4140-4145. | 1.4 | 11 |
| 100 | Impact of Zeolite Framework Composition and Flexibility on Methanolâ€Toâ€Olefins Selectivity: Confinement or Diffusion?. Angewandte Chemie, 2020, 132, 19876-19883. | 1.6 | 11 |
| 101 | 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. Journal of Catalysis, 2016, 333, 127-138. | 3.1 | 10 |
| 102 | Optimal Operating Conditions of Coupled Sequential NOx Storage/Reduction and Cu/CHA Selective Catalytic Reduction Monoliths. Topics in Catalysis, 2017, 60, 30-39. | 1.3 | 8 |
| 103 | Supra-molecular assembly of aromatic proton sponges to direct the crystallization of extra-large-pore zeotypes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140107. | 1.0 | 7 |
| 104 | General Aspects on Structure and Reactivity of Framework and Extra-framework Metals in Zeolite Materials. Structure and Bonding, 2018, , 53-90. | 1.0 | 7 |
| 105 | Singleâ€Site vs. Cluster Catalysis in High Temperature Oxidations. Angewandte Chemie, 2021, 133, 16090-16098. | 1.6 | 5 |
| 106 | Repurposing Templates for Zeolite Synthesis from Simulations and Data Mining. Chemistry of Materials, 2022, 34, 5366-5376. | 3.2 | 5 |
| 107 | Experimental energetics of large and extra-large pore zeolites: Pure silica beta polymorph C (BEC) and Ge-containing ITQ-33. Microporous and Mesoporous Materials, 2014, 187, 77-81. | 2.2 | 4 |
| 108 | Synthesis of highly stable metal-containing extra-large-pore molecular sieves. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150075. | 1.6 | 4 |

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|---|---|---|---|
| 109 | Zeolite structure determination using electron crystallography. Studies in Surface Science and Catalysis, 2008, 174, 799-804. | 1.5 | 3 |
| 110 | Synthesis and structure of polymorph B of Beta zeolite. Studies in Surface Science and Catalysis, 2008, 174, 233-236. | 1.5 | 3 |
| 111 | Role of Supramolecular Chemistry During Templating Phenomenon in Zeolite Synthesis. Structure and Bonding, 2017, , 139-177. | 1.0 | 3 |
| 112 | Ge-Based Hybrid Composites from Ge-Rich Zeolites as Highly Conductive and Stable Electronic Materials. Chemistry of Materials, 2019, 31, 7723-7731. | 3.2 | 3 |
| 113 | Synthesis methodology, acidity and catalytic behaviour of the 18 Ã— 10 member ring pores ITQ-33 zeolite. Studies in Surface Science and Catalysis, 2008, 174, 155-160. | 1.5 | 2 |
| 114 | Discovery of a new catalytically active and selective zeolite (ITQ-30) by high-throughput synthesis techniques. Studies in Surface Science and Catalysis, 2007, , 322-329. | 1.5 | 1 |
| 115 | Biomimetic synthesis of micro and mesoporous molecular sieves at room temperature and neutral pH. Studies in Surface Science and Catalysis, 2007, 170, 145-150. | 1.5 | 1 |
| 116 | Tunable CHA/AEI Zeolite Intergrowths with A Priori Biselective Organic Structureâ€Directing Agents: Controlling Enrichment and Implications for Selective Catalytic Reduction of NOx. Angewandte Chemie, 0, , . | 1.6 | 1 |