

Martin Hartmann

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215
papers

11,851
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52
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105
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228
ext. papers

12,690
ext. citations

6.3
avg, IF

6.83
L-index

#	Paper	IF	Citations
215	Ordered Mesoporous Materials for Bioadsorption and Biocatalysis. <i>Chemistry of Materials</i> , 2005 , 17, 4573-4593	10.1	1014
214	Hierarchical zeolites: a proven strategy to combine shape selectivity with efficient mass transport. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5880-2	16.4	459
213	Immobilization of enzymes on porous silicas--benefits and challenges. <i>Chemical Society Reviews</i> , 2013 , 42, 6277-89	58.5	439
212	Progress in enzyme immobilization in ordered mesoporous materials and related applications. <i>Chemical Society Reviews</i> , 2013 , 42, 3894-912	58.5	432
211	Transition-metal ions in aluminophosphate and silicoaluminophosphate molecular sieves: location, interaction with adsorbates and catalytic properties. <i>Chemical Reviews</i> , 1999 , 99, 635-64	68.1	418
210	Black TiO ₂ nanotubes: cocatalyst-free open-circuit hydrogen generation. <i>Nano Letters</i> , 2014 , 14, 3309-13	11.5	367
209	Alumination and Ion Exchange of Mesoporous SBA-15 Molecular Sieves. <i>Chemistry of Materials</i> , 1999 , 11, 1621-1627	9.6	356
208	Wastewater treatment with heterogeneous Fenton-type catalysts based on porous materials. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9002		319
207	Adsorption of Lysozyme over Mesoporous Molecular Sieves MCM-41 and SBA-15: Influence of pH and Aluminum Incorporation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7323-7330	3.4	314
206	Adsorption of Cytochrome c on Mesoporous Molecular Sieves: Influence of pH, Pore Diameter, and Aluminum Incorporation. <i>Chemistry of Materials</i> , 2004 , 16, 3056-3065	9.6	297
205	Adsorptive separation of isobutene and isobutane on Cu ₃ (BTC) ₂ . <i>Langmuir</i> , 2008 , 24, 8634-42	4	283
204	Biocatalysis with enzymes immobilized on mesoporous hosts: the status quo and future trends. <i>Journal of Materials Chemistry</i> , 2010 , 20, 844-857		280
203	Ethene/ethane and propene/propane separation via the olefin and paraffin selective metal-organic framework adsorbents CPO-27 and ZIF-8. <i>Langmuir</i> , 2013 , 29, 8592-600	4	246
202	Catalytic test reactions for the evaluation of hierarchical zeolites. <i>Chemical Society Reviews</i> , 2016 , 45, 3313-30	58.5	244
201	Adsorption of Cytochrome C on New Mesoporous Carbon Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 8297-8299	3.4	218
200	Adsorption of Vitamin E on Mesoporous Carbon Molecular Sieves. <i>Chemistry of Materials</i> , 2005 , 17, 829-836	9.6	206
199	Mechanical Stability and Porosity Analysis of Large-Pore SBA-15 Mesoporous Molecular Sieves by Mercury Porosimetry and Organics Adsorption. <i>Langmuir</i> , 2002 , 18, 8010-8016	4	206

198	An Optimized Procedure for the Synthesis of ALSBA-15 with Large Pore Diameter and High Aluminum Content. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11496-11505	3.4	201
197	Improving the hydrogen-adsorption properties of a hydroxy-modified MIL-53(Al) structural analogue by lithium doping. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4639-42	16.4	179
196	Amino-functionalized basic catalysts with MIL-101 structure. <i>Microporous and Mesoporous Materials</i> , 2012 , 164, 38-43	5.3	176
195	"Black" TiO ₂ Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-co-Catalyst Free Photocatalytic H ₂ -Evolution. <i>Nano Letters</i> , 2015 , 15, 6815-20	11.5	152
194	Benzylation of benzene and other aromatics by benzyl chloride over mesoporous ALSBA-15 catalysts. <i>Microporous and Mesoporous Materials</i> , 2005 , 80, 195-203	5.3	143
193	Effects of varying water adsorption on a Cu ₃ (BTC) ₂ metal-organic framework (MOF) as studied by ¹ H and ¹³ C solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7783-8	3.6	128
192	Direct Synthesis of Well-Ordered and Unusually Reactive FeSBA-15 Mesoporous Molecular Sieves. <i>Chemistry of Materials</i> , 2005 , 17, 5339-5345	9.6	124
191	Pore Size Engineering and Mechanical Stability of the Cubic Mesoporous Molecular Sieve SBA-1. <i>Chemistry of Materials</i> , 2003 , 15, 1385-1393	9.6	115
190	Ethylene Dimerization and Butene Isomerization in Nickel-Containing MCM-41 and AlMCM-41 Mesoporous Molecular Sieves: An Electron Spin Resonance and Gas Chromatography Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9906-9910		112
189	Mesoporous organosilicas with large cage-like pores for high efficiency immobilization of enzymes. <i>Advanced Materials</i> , 2011 , 23, 2627-32	24	109
188	Knoevenagel condensation over β and γ zeolites in liquid phase under solvent free conditions. <i>Applied Catalysis A: General</i> , 2006 , 298, 8-15	5.1	98
187	A novel family of solid basic catalysts obtained by nitridation of crystalline microporous aluminosilicates and aluminophosphates. <i>Applied Catalysis A: General</i> , 2000 , 200, 117-123	5.1	90
186	Characterization of copper and zinc containing MCM-41 and MCM-48 mesoporous molecular sieves by temperature programmed reduction and carbon monoxide adsorption. <i>Microporous and Mesoporous Materials</i> , 1999 , 27, 309-320	5.3	90
185	CW and Pulsed ESR Spectroscopy of Cupric Ions in the Metal-Organic Framework Compound Cu ₃ (BTC) ₂ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2678-2684	3.8	89
184	Recent Progress in Biocatalysis with Enzymes Immobilized on Mesoporous Hosts. <i>Topics in Catalysis</i> , 2012 , 55, 1081-1100	2.3	88
183	Adsorptive Separation of Olefin/Paraffin Mixtures with ZIF-4. <i>Langmuir</i> , 2015 , 31, 12382-9	4	85
182	Hydrogenated anatase: strong photocatalytic dihydrogen evolution without the use of a co-catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14201-5	16.4	78
181	Direct Synthesis of Novel FeSBA-1 Cubic Mesoporous Catalyst and Its High Activity in the tert-Butylation of Phenol. <i>Advanced Materials</i> , 2004 , 16, 1817-1821	24	78

180	Hydrogenation of olefins over hydrido chlorocarbonyl tris-(triphenylphosphine) ruthenium(II) complex immobilized on functionalized MCM-41 and SBA-15. <i>Journal of Molecular Catalysis A</i> , 2003 , 206, 13-21		78
179	Substitution of transition metal ions into aluminophosphates and silicoaluminophosphates: characterization and relation to catalysis. <i>Research on Chemical Intermediates</i> , 2002 , 28, 625-695	2.8	75
178	Mechanical Stability of Mesoporous Molecular Sieve MCM-48 Studied by Adsorption of Benzene, n-Heptane, and Cyclohexane. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6230-6235	3.4	75
177	Selective Oxidations of Linear Alkanes with Molecular Oxygen on Molecular Sieve Catalysts-A Breakthrough?. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 888-890	16.4	72
176	Highly active and selective ALSBA-15 catalysts for the vapor phase tert-butylation of phenol. <i>Applied Catalysis A: General</i> , 2005 , 281, 207-213	5.1	68
175	Characterization of Co,Al-MCM-41 and its activity in the t-butylation of phenol using isobutanol. <i>Applied Catalysis A: General</i> , 2004 , 268, 139-149	5.1	67
174	Mesoporous FeAlMCM-41: an improved catalyst for the vapor phase tert-butylation of phenol. <i>Applied Catalysis A: General</i> , 2004 , 265, 1-10	5.1	66
173	Catalytic Conversion of Methanol to Olefins on SAPO-n (n = 11, 34, and 35), CrAPSO-n, and CrBAPO-n Molecular Sieves. <i>Chemistry of Materials</i> , 2000 , 12, 2781-2787	9.6	64
172	Structural Phase Transitions and Thermal Hysteresis in the Metal-Organic Framework Compound MIL-53 As Studied by Electron Spin Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19443-19451	3.8	62
171	Continuous Wave and Pulsed Electron Spin Resonance Spectroscopy of Paramagnetic Framework Cupric Ions in the Zn(II) Doped Porous Coordination Polymer Cu ₃ Zn _x (btc) ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16630-16639	3.8	59
170	Synthesis and Characterization of CoSBA-1 Cubic Mesoporous Molecular Sieves. <i>Chemistry of Materials</i> , 2002 , 14, 2433-2435	9.6	56
169	Improved activity and stability of lipase immobilized in cage-like large pore mesoporous organosilicas. <i>Microporous and Mesoporous Materials</i> , 2012 , 154, 133-141	5.3	55
168	Oxidation of indole using chloroperoxidase and glucose oxidase immobilized on SBA-15 as tandem biocatalyst. <i>Microporous and Mesoporous Materials</i> , 2008 , 113, 523-529	5.3	54
167	Adsorption and separation of amino acids from aqueous solutions on zeolites. <i>Chemical Communications</i> , 2001 , 1978-9	5.8	54
166	Formation of Mixed Metal Cu ₃ Zn _x (btc) ₂ Frameworks with Different Zinc Contents: Incorporation of Zn ²⁺ into the Metal-Organic Framework Structure as Studied by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20866-20873	3.8	53
165	A comparative study of zeolites SSZ-33 and MCM-68 for hydrocarbon trap applications. <i>Microporous and Mesoporous Materials</i> , 2006 , 96, 210-215	5.3	53
164	Direct synthesis and catalytic evaluation of ALSBA-1. <i>Chemical Communications</i> , 2002 , 1238-9	5.8	52
163	Noble-Metal-Free Photocatalytic Hydrogen Evolution Activity: The Impact of Ball Milling Anatase Nanopowders with TiH. <i>Advanced Materials</i> , 2017 , 29, 1604747	24	51

162	Synthesis of isomorphously substituted extra-large pore UTL zeolites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15793		51
161	Novel solid basic catalysts by nitridation of zeolite beta at low temperature. <i>Microporous and Mesoporous Materials</i> , 2006 , 90, 377-383	5.3	51
160	Characterization and microporosity analysis of mesoporous carbon molecular sieves by nitrogen and organics adsorption. <i>Catalysis Today</i> , 2005 , 102-103, 189-196	5.3	48
159	Oxidation of adamantane by urea hydroperoxide using vanadium complex anchored onto functionalized Si-MCM-41. <i>Journal of Molecular Catalysis A</i> , 2004 , 207, 131-137		45
158	Novel Organic/Inorganic Hybrid Materials by Covalent Anchoring of Phenothiazines on MCM-41. <i>Chemistry of Materials</i> , 2008 , 20, 4986-4992	9.6	44
157	Formation and Stability of Ni(II) Ions in MCM-41 Mesoporous Molecular Sieves. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 17494-17496		44
156	Immobilization of lipase in cage-type mesoporous organosilicas via covalent bonding and crosslinking. <i>Catalysis Today</i> , 2015 , 243, 173-183	5.3	43
155	Covalent anchoring of chloroperoxidase and glucose oxidase on the mesoporous molecular sieve SBA-15. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 762-78	6.3	43
154	Electron Spin Resonance and Electron Spin Echo Modulation Studies of Cu(II) Ion Coordination and Adsorbate Interaction in Ion-Exchanged AlMCM-41 Mesoporous Materials. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 17251-17258		43
153	Evaluation of Pt/MCM-41//MgAPO-n composite catalysts for isomerization and hydrocracking of n-decane. <i>Journal of Catalysis</i> , 2003 , 217, 388-395	7.3	40
152	Formation of cross-linked chloroperoxidase aggregates in the pores of mesocellular foams: characterization by SANS and catalytic properties. <i>ChemSusChem</i> , 2009 , 2, 161-4	8.3	39
151	Synthesis and Characterization of Mn-Containing Cubic Mesoporous MCM-48 and AlMCM-48 Molecular Sieves. <i>Chemistry of Materials</i> , 1999 , 11, 2928-2936	9.6	39
150	Broadband dielectric spectroscopy of water confined in MCM-41 molecular sieve materials: low-temperature freezing phenomena. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 2843-2857	1.8	36
149	Preparation and characterization of ruthenium clusters on mesoporous supports. <i>Microporous and Mesoporous Materials</i> , 2001 , 44-45, 385-394	5.3	36
148	Lithiumdotierung eines hydroxymodifizierten MIL-53-Strukturanalogons zur Verbesserung der Wasserstoffadsorption. <i>Angewandte Chemie</i> , 2009 , 121, 4710-4714	3.6	35
147	Physicochemical Characterization of Chromium Oxides Immobilized in Mesoporous MeMCM-41 (Me = Al, Ti, and Zr) Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4690-4698	3.4	35
146	Hydrothermal incorporation of manganese in the framework of SBA-15. <i>Catalysis Communications</i> , 2007 , 8, 493-497	3.2	34
145	Selective oxidation of indole by chloroperoxidase immobilized on the mesoporous molecular sieve SBA-15. <i>Journal of Porous Materials</i> , 2006 , 13, 347-352	2.4	33

144	Isomerization and Hydrocracking of n-Decane over Bimetallic PtPd Clusters Supported on Mesoporous MCM-41 Catalysts. <i>Catalysis Letters</i> , 2002 , 80, 35-40	2.8	33
143	Electron Spin Resonance and Electron Spin Echo Modulation Study of Ni(II) in Silicoaluminophosphate Type 5: Adsorbate Interactions and Evidence for the Framework Incorporation of Ni(II). <i>The Journal of Physical Chemistry</i> , 1995 , 99, 10988-10994		32
142	Synthesis of multilamellar MFI-type zeolites under static conditions: The role of gel composition on their properties. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 324-333	5.3	31
141	Hydrogenated Anatase: Strong Photocatalytic Dihydrogen Evolution without the Use of a Co-Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 14425-14429	3.6	31
140	Synthesis, Characterization, and Adsorbate Interactions of CoAPO-41 and CoAPSO-41 Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6819-6826	3.4	31
139	Timing of calcium nitrate addition affects morphology, dispersity and composition of bioactive glass nanoparticles. <i>RSC Advances</i> , 2016 , 6, 95101-95111	3.7	31
138	Direct Synthesis and Spectroscopic Evidence of Framework Co(II) ions in SBA-15 Mesoporous Molecular Sieves. <i>Chemistry Letters</i> , 2004 , 33, 588-589	1.7	30
137	Synthesis and redox properties of MCM-48 containing copper and zinc. <i>Chemical Communications</i> , 1997 , 2367-2368	5.8	28
136	Characterization and catalytic evaluation of mesoporous and microporous molecular sieves containing niobium. <i>Catalysis Today</i> , 2003 , 78, 467-475	5.3	28
135	Correlation of Enhanced Strength and Internal Structure for Heat-Treated Submicron Spherical Silica Particles. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 664-674	3.1	27
134	A new route for the synthesis of manganese incorporated SBA-15. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 53-60	5.3	27
133	Spectroscopic characterization of iron-containing MCM-58. <i>Microporous and Mesoporous Materials</i> , 2006 , 89, 47-57	5.3	27
132	Synthesis of highly acidic and well ordered MgAl-MCM-41 and its catalytic performance on the isopropylation of m-cresol. <i>Microporous and Mesoporous Materials</i> , 2004 , 76, 91-98	5.3	27
131	Nickel(II) Location and Adsorbate Interactions in Nickel(II)-Exchanged Silicoaluminophosphate Type 5 As Determined by Electron Spin Resonance and Electron Spin Echo Modulation Spectroscopies. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 6670-6676		27
130	In situ cracking of silica beads in the SEM and TEM Effect of particle size on structure-property correlations. <i>Powder Technology</i> , 2015 , 270, 337-347	5.2	26
129	Covalent Immobilization of Imidazolium Cations Inside a Silica Support: Palladium-Catalyzed Olefin Hydrogenation. <i>ChemCatChem</i> , 2012 , 4, 395-400	5.2	26
128	Coordination Geometry of the CopperPyridine Complex in Frozen Solution As Studied by Proton and Deuterium Two-Dimensional Hyperfine Sublevel Correlation Electron Spin Resonance Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 3599-3606	2.8	26
127	Synthesis of the novel MOF hcp UiO-66 employing ionic liquids as a linker precursor. <i>Dalton Transactions</i> , 2018 , 47, 14426-14430	4.3	26

126	A Combined Pulsed Electron Paramagnetic Resonance Spectroscopic and DFT Analysis of the $^{13}\text{CO}_2$ and ^{13}CO Adsorption on the Metal-Organic Framework $\text{Cu}_2.97\text{Zn}_{0.03}(\text{btc})_2$. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8231-8240	3.8	25
125	Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al).. <i>RSC Advances</i> , 2020 , 10, 7336-7348	3.7	24
124	Olefin/Paraffin Separation Potential of ZIF-9 and ZIF-71: A Combined Experimental and Theoretical Study. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4440-4449	2.3	24
123	Adsorption of nitric oxide in metal-organic frameworks: Low temperature IR and EPR spectroscopic evaluation of the role of open metal sites. <i>Microporous and Mesoporous Materials</i> , 2015 , 216, 97-110	5.3	24
122	Formation of cross-linked glucose oxidase aggregates in mesocellular foams. <i>Journal of Materials Science</i> , 2009 , 44, 6747-6753	4.3	24
121	Zirconia supported phosphotungstic acid as an efficient catalyst for resorcinol tert-butylation and n-heptane hydroisomerization. <i>Journal of Molecular Catalysis A</i> , 2004 , 221, 113-119		24
120	Elucidation of the Formation Mechanism of Metal-Organic Frameworks via in-Situ Raman and FTIR Spectroscopy under Solvothermal Conditions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12267-12278	3.8	23
119	Oxidation of indole with CPO and GOx immobilized on mesoporous molecular sieves. <i>Catalysis Today</i> , 2010 , 157, 378-383	5.3	21
118	EPR spectroscopy of Cu(I)-NO adsorption complexes formed over Cu-ZSM-5 and Cu-MCM-22 zeolites. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1537-46	3.4	21
117	Incorporation of Transition Metal Ions into MeAPO/MeAPSO Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1610-1616	3.4	21
116	Novel geopolymers incorporating red mud and waste glass cullet. <i>Materials Letters</i> , 2018 , 219, 152-154	3.3	20
115	Shaping of Flexible Metal-Organic Frameworks: Combining Macroscopic Stability and Framework Flexibility. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 4700-4709	2.3	20
114	A Continuous-Wave Electron Paramagnetic Resonance Study of Carbon Dioxide Adsorption on the Metal-Organic Framework MIL-53. <i>Applied Magnetic Resonance</i> , 2014 , 45, 269-285	0.8	20
113	Direct oxidation of benzene to phenol over hierarchical ZSM-5 zeolites prepared by sequential post synthesis modification. <i>Microporous and Mesoporous Materials</i> , 2017 , 237, 151-159	5.3	20
112	Multinuclear MAS NMR study on the microporous aluminophosphates AlPO ₄ -41 and SAPO-41. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 723-727		20
111	Extrusion of AlSBA-15 molecular sieves: An industrial point of view. <i>Catalysis Communications</i> , 2007 , 8, 457-461	3.2	20
110	Synthesis, characterisation and catalytic performance of HMCM-22 of different silica to alumina ratios. <i>Journal of Molecular Catalysis A</i> , 2007 , 272, 38-44		20
109	Synthesis of large molecular sieve crystals with the AFI (AlPO ₄ -5) topology. <i>Catalysis Today</i> , 1999 , 49, 261-266	5.3	20

108	SAPO-35 Molecular Sieve: Synthesis, Characterization, and Adsorbate Interactions of Cu(II) in CuHBAPO-35. <i>Chemistry of Materials</i> , 1998 , 10, 932-941	9.6	19
107	Silver-assisted colloidal synthesis of stable, plasmon resonant gold patches on silica nanospheres. <i>Langmuir</i> , 2012 , 28, 8971-8	4	18
106	Preparation of SBA-15 extrudates: Evaluation of textural and mechanical properties. <i>Journal of Porous Materials</i> , 2009 , 16, 175-183	2.4	18
105	Synthesis, electron paramagnetic resonance and electron spin echo modulation studies on synthesized NiAPO-41 molecular sieve and comparison with ion-exchanged NiH-SAPO-41 molecular sieve. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 1233-1241		18
104	Nitric Oxide Adsorption in MIL-100(Al) MOF Studied by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12723-12730	3.8	18
103	Dependence of ethene dimerization activity and selectivity on Ni in ion-exchange vs. framework sites in SAPO-5 and SAPO-11 materials. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 1429		17
102	Direct synthesis of non-breathing MIL-53(Al)(ht) from a terephthalate-based ionic liquid as linker precursor. <i>Dalton Transactions</i> , 2016 , 45, 18443-18446	4.3	16
101	Ethylene dimerization in nickel containing MCM-41 and AlMCM-41 studied by electron spin resonance and gas chromatography. <i>Studies in Surface Science and Catalysis</i> , 1996 , 801-809	1.8	16
100	Hierarchical ZSM-5 Catalysts: The Effect of Different Intracrystalline Pore Dimensions on Catalyst Deactivation Behaviour in the MTO Reaction. <i>ChemCatChem</i> , 2020 , 12, 2461-2468	5.2	15
99	Continuous Separation of Light Olefin/Paraffin Mixtures on ZIF-4 by Pressure Swing Adsorption and Membrane Permeation. <i>Molecules</i> , 2018 , 23,	4.8	15
98	Synthesis of a partially fluorinated ZIF-8 analog for ethane/ethene separation. <i>CrystEngComm</i> , 2017 , 19, 5882-5891	3.3	15
97	Catalysis with Microporous Aluminophosphates and Silicoaluminophosphates Containing Transition Metals 2010 , 1, 237-312		15
96	Electronic g values of Na ⁺ NO and Cu ⁺ NO complexes in zeolites: Analysis using a relativistic density functional method. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2429-2434	3.6	15
95	A Rhodium Triphenylphosphine Catalyst for Alkene Hydrogenation Supported on Neat Superparamagnetic Iron Oxide Nanoparticles. <i>ChemCatChem</i> , 2015 , 7, 127-136	5.2	14
94	High-field ESR spectroscopy of Cu(I)-NO complexes in zeolite CuZSM-5. <i>Studies in Surface Science and Catalysis</i> , 2002 , 142, 375-382	1.8	14
93	Zeolite-Coated Porous Arrays: A Novel Strategy for Enzyme Encapsulation. <i>Advanced Functional Materials</i> , 2015 , 25, 1832-1836	15.6	13
92	Dynamics of pH-sensitive nitroxide radicals in water adsorbed in ordered mesoporous molecular sieves by EPR Spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2013 , 179, 258-264	5.3	13
91	H, D and HD adsorption upon the metal-organic framework [CuZn(btc)] studied by pulsed ENDOR and HYSCORE spectroscopy. <i>Molecular Physics</i> , 2013 , 111, 2950-2966	1.7	13

90	Hierarchically-Ordered Zeolites: A Critical Assessment. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001841	4.6	13
89	Key factors for the direct growth of zeolite faujasite (FAU) on metallic aluminum surface. <i>Microporous and Mesoporous Materials</i> , 2018 , 271, 252-261	5.3	13
88	Boron-containing MFI-type zeolites with a hierarchical nanosheet assembly for lipase immobilization. <i>Dalton Transactions</i> , 2017 , 46, 4165-4169	4.3	12
87	Consecutive interlayer disassembly/reassembly during alumination of UOV zeolites: insight into the mechanism. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22576-22587	1.3	12
86	Anomaly in the Chain Length Dependence of n-Alkane Diffusion in ZIF-4 Metal-Organic Frameworks. <i>Molecules</i> , 2018 , 23,	4.8	12
85	Dielectric response of water confined in MCM-41 molecular sieve material. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, R100-R102	1.3	12
84	Synthesis and characterization of aluminum-containing MCM-48. <i>Studies in Surface Science and Catalysis</i> , 1998 , 117, 249-256	1.8	12
83	Synthesis of Niobium- and Tantalum-Containing Silicalite-1. <i>Chemistry Letters</i> , 1999 , 28, 407-408	1.7	12
82	Electron Spin Resonance and Electron Spin Echo Modulation Studies of Catalytic Ethylene Dimerization on Palladium-Exchanged Silicoaluminophosphate Type 5, 8, and 11 Molecular Sieves. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 4606-4611		12
81	Electrical potential near hydrated surface of ordered mesoporous molecular sieves assessed by EPR of molecular pH-probes. <i>Microporous and Mesoporous Materials</i> , 2015 , 203, 1-7	5.3	11
80	Adsorption and Desorption of HD on the Metal-Organic Framework Cu _{2.97} Zn _{0.03} (Btc) ₂ Studied by Three-Pulse ESEEM Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28530-28535	3.8	11
79	Electrostatic grafting of a triphenylphosphine sulfonate on SBA-15: application in palladium catalyzed hydrogenation. <i>Catalysis Science and Technology</i> , 2012 , 2, 1188	5.5	11
78	Generation of ion-exchange capacity by silicon incorporation into the aluminophosphate VPI-5/AlPO ₄ -8 molecular sieve system. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 3661		11
77	Solvent-free transformation of spray coated ZnO layers to ZIF-8 membranes. <i>Microporous and Mesoporous Materials</i> , 2019 , 276, 29-40	5.3	11
76	¹²⁹ Xe NMR on Porous Materials: Basic Principles and Recent Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001266	4.6	11
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