

# Joeri F M Denayer

## List of Publications by Citations

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219  
papers

10,788  
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52  
h-index

96  
g-index

229  
ext. papers

11,747  
ext. citations

6.5  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
219	An amine-functionalized MIL-53 metal-organic framework with large separation power for CO <sub>2</sub> and CH <sub>4</sub> . <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6326-7	16.4	863
218	Adsorptive separation on metal-organic frameworks in the liquid phase. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 5766-88	58.5	685
217	Selective adsorption and separation of xylene isomers and ethylbenzene with the microporous vanadium(IV) terephthalate MIL-47. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 4293-7	16.4	462
216	Selective adsorption and separation of ortho-substituted alkylaromatics with the microporous aluminum terephthalate MIL-53. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14170-8	16.4	345
215	Fast and selective sugar conversion to alkyl lactate and lactic acid with bifunctional carbon-silica catalysts. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10089-101	16.4	292
214	Separation of CO <sub>2</sub> /CH <sub>4</sub> mixtures with the MIL-53(Al) metal-organic framework. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 120, 221-227	5.3	287
213	Pore-filling-dependent selectivity effects in the vapor-phase separation of xylene isomers on the metal-organic framework MIL-47. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7110-8	16.4	258
212	Complexity behind CO <sub>2</sub> capture on NH <sub>2</sub> -MIL-53(Al). <i>Langmuir</i> , <b>2011</b> , 27, 3970-6	4	256
211	Understanding the role of sodium during adsorption: a force field for alkanes in sodium-exchanged faujasites. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 11377-86	16.4	222
210	High-Temperature Low-Pressure Adsorption of Branched C <sub>5</sub> -C <sub>8</sub> Alkanes on Zeolite Beta, ZSM-5, ZSM-22, Zeolite Y, and Mordenite. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 4588-4597	3.4	191
209	Separation of styrene and ethylbenzene on metal-organic frameworks: analogous structures with different adsorption mechanisms. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15277-85	16.4	181
208	Biobutanol separation with the metal-organic framework ZIF-8. <i>ChemSusChem</i> , <b>2011</b> , 4, 1074-7	8.3	168
207	Separation of C(5)-hydrocarbons on microporous materials: complementary performance of MOFs and zeolites. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2284-92	16.4	158
206	Adsorption and Diffusion Phenomena in Crystal Size Engineered ZIF-8 MOF. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 28430-28439	3.8	149
205	Chromatographic Study of Adsorption of n-Alkanes on Zeolites at High Temperatures. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3077-3081	3.4	147
204	Framework breathing in the vapour-phase adsorption and separation of xylene isomers with the metal-organic framework MIL-53. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 7724-31	4.8	146
203	Evidences for pore mouth and keylock catalysis in hydroisomerization of long n-alkanes over 10-ring tubular pore bifunctional zeolites. <i>Catalysis Today</i> , <b>2001</b> , 65, 111-116	5.3	132

202	Electrochemical Film Deposition of the Zirconium Metal-Organic Framework UiO-66 and Application in a Miniaturized Sorbent Trap. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1801-1807	9.6	128
201	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , <b>2017</b> , 8, 3939-3948	9.3	123
200	High pressure, high temperature electrochemical synthesis of metal-organic frameworks: films of MIL-100 (Fe) and HKUST-1 in different morphologies. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5827	13	121
199	Activation of the metal-organic framework MIL-47 for selective adsorption of xylenes and other difunctionalized aromatics. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 2979-85	3.6	113
198	Acid-Metal Balance of a Hydrocracking Catalyst: Ideal versus Nonideal Behavior. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 5159-5169	3.9	113
197	The role of crystal diversity in understanding mass transfer in nanoporous materials. <i>Nature Materials</i> , <b>2016</b> , 15, 401-6	27	111
196	Silica-MOF Composites as a Stationary Phase in Liquid Chromatography. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 3735-3738	2.3	109
195	CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> separation with a 3DFD-printed ZSM-5 monolith. <i>Chemical Engineering Journal</i> , <b>2017</b> , 308, 719-726	14.7	105
194	Adsorption and separation of light gases on an amino-functionalized metal-organic framework: an adsorption and in situ XRD study. <i>ChemSusChem</i> , <b>2012</b> , 5, 740-50	8.3	100
193	Electrochemical synthesis of thin HKUST-1 layers on copper mesh. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 158, 209-213	5.3	89
192	On the electrochemical deposition of metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3914-3925	13	88
191	Adsorption of normal and branched paraffins in faujasite zeolites NaY, HY, Pt/NaY and USY. <i>Adsorption</i> , <b>1997</b> , 3, 251-265	2.6	76
190	3D-printed SAPO-34 monoliths for gas separation. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 255, 185-191	5.3	74
189	New Functionalized Metal-Organic Frameworks MIL-47-X (X = Cl, Br, NH <sub>3</sub> , F <sub>3</sub> , OH, OCH <sub>3</sub> ): Synthesis, Characterization, and CO <sub>2</sub> Adsorption Properties. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 22784-22796	3.8	72
188	Thermodynamic analysis of the breathing of amino-functionalized MIL-53(Al) upon CO <sub>2</sub> adsorption. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 140, 108-113	5.3	72
187	Kinetic modeling of pore mouth catalysis in the hydroconversion of n-octane on Pt-H-ZSM-22. <i>Journal of Catalysis</i> , <b>2003</b> , 220, 399-413	7.3	71
186	Low-coverage adsorption properties of the metal-organic framework MIL-47 studied by pulse chromatography and Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3515-21	3.6	69
185	A pulse chromatographic study of the adsorption properties of the amino-MIL-53 (Al) metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 9413-8	3.6	68

184	Tracer Chromatographic Study of Pore and Pore Mouth Adsorption of Linear and Monobranched Alkanes on ZSM-22 Zeolite. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 398-406	3.4	67
183	Hydrocracking of n-Alkane Mixtures on Pt/H <sub>2</sub> Zeolite: Chain Length Dependence of the Adsorption and the Kinetic Constants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 3242-3247	3.9	66
182	Low-temperature synthesized aluminosilicate glasses Part IV Modulated DSC study on the effect of particle size of metakaolinite on the production of inorganic polymer glasses. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 3131-3136	4.3	66
181	Selective Dynamic CO <sub>2</sub> Separations on Mg-MOF-74 at Low Pressures: A Detailed Comparison with 13X. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9301-9310	3.8	64
180	Formation of ZSM-22 zeolite catalytic particles by fusion of elementary nanorods. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 10070-7	4.8	64
179	New V(IV)-based metal-organic framework having framework flexibility and high CO <sub>2</sub> adsorption capacity. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 113-20	5.1	63
178	Adsorption of liquid-phase alkane mixtures in silicalite: simulations and experiment. <i>Langmuir</i> , <b>2004</b> , 20, 150-6	4	63
177	Catalyst Design by NH <sub>4</sub> OH Treatment of USY Zeolite. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 7130-7144	5.6	60
176	Cage and Window Effects in the Adsorption of n-Alkanes on Chabazite and SAPO-34. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 16593-16599	3.8	60
175	High Adsorption Capacities and Two-Step Adsorption of Polar Adsorbates on CopperBenzene-1,3,5-tricarboxylate Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18100-18111	3.8	59
174	Adsorptive separations for the recovery and purification of biobutanol. <i>Adsorption</i> , <b>2012</b> , 18, 367-373	2.6	59
173	Alkylcarbenium Ion Concentrations in Zeolite Pores During Octane Hydrocracking on Pt/H-USY Zeolite. <i>Catalysis Letters</i> , <b>2004</b> , 94, 81-88	2.8	57
172	Partially fluorinated MIL-47 and Al-MIL-53 frameworks: influence of functionalization on sorption and breathing properties. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3552-61	3.6	56
171	Understanding Hydrocarbon Adsorption in the UiO-66 Metal-Organic Framework: Separation of (Un)saturated Linear, Branched, Cyclic Adsorbates, Including Stereoisomers. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12567-12578	3.8	56
170	Metal-organic frameworks as stationary phases for chiral chromatographic and membrane separations. <i>Chemical Engineering Science</i> , <b>2015</b> , 124, 179-187	4.4	54
169	Adsorption and Separation of C <sub>10</sub> Alcohols on SAPO-34. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8117-8125	3.8	53
168	Adsorptive characterization of the ZIF-68 metal-organic framework: a complex structure with amphiphilic properties. <i>Langmuir</i> , <b>2014</b> , 30, 8416-24	4	52
167	Modeling the effect of structural changes during dynamic separation processes on MOFs. <i>Langmuir</i> , <b>2011</b> , 27, 13064-71	4	52

166	Experimental investigation of the difference in B-term dominated band broadening between fully porous and porous-shell particles for liquid chromatography using the Effective Medium Theory. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 4406-16	4.5	52
165	Adsorption of Alkanes and Other Organic Molecules in Liquid Phase and in the Dense Vapor Phase: Influence of Polarity, Zeolite Topology, and External Fluid Density and Pressure. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 3691-3698	3.9	52
164	High-temperature adsorption of n-alkanes on ZSM-5 zeolites: influence of the Si/Al ratio and the synthesis method on the low-coverage adsorption properties. <i>Microporous and Mesoporous Materials</i> , <b>2003</b> , 60, 111-124	5.3	50
163	Pore mouth versus intracrystalline adsorption of isoalkanes on ZSM-22 and ZSM-23 zeolites under vapour and liquid phase conditions. <i>Chemical Communications</i> , <b>2003</b> , 1880-1	5.8	50
162	Packing Effects in the Liquid-Phase Adsorption of C5-C22n-Alkanes on ZSM-5. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 10760-10766	3.4	48
161	Adsorption and separation of CO <sub>2</sub> on KFI zeolites: effect of cation type and Si/Al ratio on equilibrium and kinetic properties. <i>Langmuir</i> , <b>2013</b> , 29, 4998-5012	4	47
160	Rotational entropy driven separation of alkane/isoalkane mixtures in zeolite cages. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 400-3	16.4	47
159	Hierarchical Pore Development of ZIF-8 MOF by Simple Salt-Assisted Mechanosynthesis. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 274-279	3.5	46
158	Polyimide mixed matrix membranes for CO <sub>2</sub> separations using carbon/silica nanocomposite fillers. <i>Journal of Membrane Science</i> , <b>2015</b> , 495, 121-129	9.6	45
157	Pore mouth physisorption of alkanes on ZSM-22: estimation of physisorption enthalpies and entropies by additivity method. <i>Journal of Catalysis</i> , <b>2003</b> , 218, 135-147	7.3	44
156	Surface modification of soft-templated ordered mesoporous carbon for electrochemical supercapacitors. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 217, 141-149	5.3	43
155	Pt/H-ZSM-22 hydroisomerization catalysts optimization guided by Single-Event MicroKinetic modeling. <i>Journal of Catalysis</i> , <b>2012</b> , 290, 165-176	7.3	43
154	Adsorption and separation of n-hexane and cyclohexane on the UiO-66 metal-organic framework. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 183, 143-149	5.3	42
153	Molecular competition effects in liquid-phase adsorption of long-chain n-alkane mixtures in ZSM-5 zeolite pores. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2774-7	16.4	42
152	Evidence for Alkylcarbenium Ion Reaction Intermediates from Intrinsic Reaction Kinetics of C <sub>6</sub> -C <sub>9</sub> n-Alkane Hydroisomerization and Hydrocracking on Pt/HZ and Pt/USY Zeolites. <i>Journal of Catalysis</i> , <b>2000</b> , 190, 469-473	7.3	42
151	On controlling the anodic electrochemical film deposition of HKUST-1 metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 224, 302-310	5.3	41
150	Vanadium Analogues of Nonfunctionalized and Amino-Functionalized MOFs with MIL-101 Topology: Synthesis, Characterization, and Gas Sorption Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 2481-2486	2.3	41
149	Vapor-Phase Adsorption and Separation of Ethylbenzene and Styrene on the Metal-Organic Frameworks MIL-47 and MIL-53(Al). <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 14824-14833	3.9	38

148	Adsorption of polyethylene standards from decalin on liquid chromatography column packings. <i>Journal of Chromatography A</i> , <b>2003</b> , 1002, 55-62	4.5	38
147	Adsorption of the Butene Isomers in Faujasite: A Combined ab-Initio Theoretical and Experimental Study. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11065-11071	3.4	38
146	Influence of Si:Al-ratio of faujasites on the adsorption of alkanes, alkenes and aromatics. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 96, 149-156	5.3	37
145	Separating Saturated Alkylaromatics from Their Unsaturated Analogues Using Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1051-1055	3.8	35
144	Optimization of MoVSb oxide catalyst for partial oxidation of isobutane by combinatorial approaches. <i>ACS Combinatorial Science</i> , <b>2005</b> , 7, 407-13		35
143	Investigation of inverse shape selectivity in alkane adsorption on SAPO-5 zeolite using the tracer chromatography technique. <i>Journal of Catalysis</i> , <b>2004</b> , 226, 240-244	7.3	35
142	Skeletal isomerization of octadecane on bifunctional ZSM-23 zeolite catalyst. <i>Catalysis Letters</i> , <b>2005</b> , 100, 235-242	2.8	35
141	Shape Selectivity in Adsorption of n- and Iso-alkanes on a Zeolite-2 Microporous/Mesoporous Hybrid and Mesoporous MCM-48. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3911-3917	15.6	34
140	n- and isoalkane adsorption mechanisms on zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 8551-8	3.4	34
139	Mesoporous Zr and Hf catalysts for chemoselective MPV reductions of unsaturated ketones. <i>Applied Catalysis A: General</i> , <b>2003</b> , 254, 189-201	5.1	34
138	Isolation of Renewable Phenolics by Adsorption on Ultrastable Hydrophobic MIL-140 Metal-Organic Frameworks. <i>ChemSusChem</i> , <b>2015</b> , 8, 3159-66	8.3	33
137	Modeling of adsorption and bifunctional conversion of n-alkanes on Pt/H-ZSM-22 zeolite catalyst. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 3553-3561	4.4	33
136	Molecular Cage Nestling in the Liquid-Phase Adsorption of n-Alkanes in 5A Zeolite. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 2191-2197	3.8	31
135	Molecular Competition of C7 and C9n-Alkanes in Vapor- and Liquid-Phase Hydroconversion over Bifunctional Pt-USY Zeolite Catalysts. <i>Journal of Catalysis</i> , <b>2002</b> , 210, 445-452	7.3	31
134	An aliphatic copper metal-organic framework as versatile shape selective adsorbent in liquid phase separations. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 226, 292-298	5.3	30
133	Relumped single-event microkinetic model for alkane hydrocracking on shape-selective catalysts: catalysis on ZSM-22 pore mouths, bridge acid sites and micropores. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 4765-4772	4.4	30
132	Shape selective properties of the Al-fumarate metal-organic framework in the adsorption and separation of n-alkanes, iso-alkanes, cyclo-alkanes and aromatic hydrocarbons. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 3294-301	3.6	29
131	Design of Optimum Zeolite Pore System for Central Hydrocracking of Long-Chain n-Alkanes based on a Single-Event Microkinetic Model. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 1251-1260	2.3	29

130	Bifunctional catalytic isomerization of decane over MTT-type aluminosilicate zeolite crystals with siliceous rim. <i>Journal of Catalysis</i> , <b>2006</b> , 239, 451-459	7.3	29
129	Decane hydroconversion on bifunctional Zeogrid and nano-zeolite assembled from aluminosilicate nanoslabs of MFI framework type. <i>Applied Catalysis A: General</i> , <b>2004</b> , 257, 7-17	5.1	29
128	High-pressure liquid phase hydroconversion of heptane/nonane mixtures on Pt/H-Y zeolite catalyst. <i>Journal of Catalysis</i> , <b>2003</b> , 220, 66-73	7.3	29
127	Sorption and breathing properties of difluorinated MIL-47 and Al-MIL-53 frameworks. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 181, 175-181	5.3	28
126	CO <sub>2</sub> reverse selective mixed matrix membranes for H <sub>2</sub> purification by incorporation of carbon/silica fillers. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 945-953	13	28
125	Pulse gas chromatographic study of adsorption of substituted aromatics and heterocyclic molecules on MIL-47 at zero coverage. <i>Langmuir</i> , <b>2012</b> , 28, 13883-91	4	27
124	Molecular sieve properties of mesoporous silica with intraporous nanocarbon. <i>Chemical Communications</i> , <b>2010</b> , 46, 928-30	5.8	27
123	Removal of cyclopentadiene from 1-octene by transition metal containing zeolites [Part 2: Stabilization of CoCaX zeolite by its cation distribution. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 103, 11-19	5.3	27
122	Highly Robust MOF Polymeric Beads with a Controllable Size for Molecular Separations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13694-13703	9.5	26
121	Multistage counter-current solvent extraction in a flat membrane microcontactor. <i>Chemical Engineering Journal</i> , <b>2015</b> , 273, 138-146	14.7	26
120	Gas phase adsorption of alkanes, alkenes and aromatics on the sulfone-DUT-5 Metal Organic Framework. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 206, 217-225	5.3	26
119	Length exclusion in the adsorption of chain molecules on chabazite type zeolites. <i>Chemical Communications</i> , <b>2007</b> , 1316-8	5.8	26
118	Adsorption of polyethylene from thermodynamically good solvents on a zeolite stationary phase. <i>Journal of Separation Science</i> , <b>2003</b> , 26, 1569-1574	3.4	26
117	Influence of the zeolite composition on the hydro-isomerisation and hydrocracking of alkanes on Pt/USY zeolites: modelling of the reaction kinetics using an adsorption/reaction approach. <i>Applied Catalysis A: General</i> , <b>2003</b> , 246, 17-28	5.1	26
116	3D-Printed Zeolitic Imidazolate Framework Structures for Adsorptive Separations. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 4991-4999	5.6	25
115	Adsorption and Separation of Small Hydrocarbons on the Flexible, Vanadium-Containing MOF, COMOC-2. <i>Langmuir</i> , <b>2015</b> , 31, 5063-70	4	25
114	Prediction of molecular separation of polar-apolar mixtures on heterogeneous metal-organic frameworks: HKUST-1. <i>Langmuir</i> , <b>2014</b> , 30, 7878-83	4	25
113	Synthesis, characterization and sorption properties of NH <sub>2</sub> -MIL-47. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 15562-70	3.6	25

112	Competitive physisorption effects in hydroisomerisation of n-alkane mixtures on Pt/Y and Pt/USY zeolite catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 1007-1014	3.6	25
111	Synthesis, characterization and sorption properties of functionalized Cr-MIL-101-X (X=B, Al, Br, CH <sub>3</sub> , C <sub>6</sub> H <sub>4</sub> , B <sub>2</sub> , (CH <sub>3</sub> ) <sub>2</sub> ) materials. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 238, 195-202	3.3	24
110	Dynamic desorption of CO <sub>2</sub> and CH <sub>4</sub> from amino-MIL-53(Al) adsorbent. <i>Adsorption</i> , <b>2013</b> , 19, 1235-1244	2.6	24
109	Biogas upgrading through kinetic separation of carbon dioxide and methane over Rb- and Cs-ZK-5 zeolites. <i>RSC Advances</i> , <b>2014</b> , 4, 62511-62524	3.7	24
108	Unusual pressure-temperature dependency in the capillary liquid chromatographic separation of C <sub>8</sub> alkylaromatics on the MIL-53(Al) metal-organic framework. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 162, 1-5	5.3	24
107	A study of packing induced selectivity effects in the liquid phase adsorption of alkane/alkene mixtures on NaY. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 82, 191-199	5.3	24
106	Intensified Biobutanol Recovery by using Zeolites with Complementary Selectivity. <i>ChemSusChem</i> , <b>2017</b> , 10, 2968-2977	8.3	23
105	Improving the selectivity to 4-tert-butylresorcinol by adjusting the surface chemistry of heteropolyacid-based alkylation catalysts. <i>Journal of Catalysis</i> , <b>2018</b> , 359, 198-211	7.3	22
104	Adsorption of polypropylene from dilute solutions on a zeolite column packing. <i>Journal of Separation Science</i> , <b>2005</b> , 28, 59-64	3.4	22
103	Fabrication and separation performance evaluation of a metal-organic framework based microseparator device. <i>Chemical Engineering Science</i> , <b>2013</b> , 95, 65-72	4.4	20
102	Unexpected Si:Al effect on the binary mixtures liquid phase adsorption selectivities in faujasite zeolites. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11600-1	16.4	20
101	A unified single-event microkinetic model for alkane hydroconversion in different aggregation states on Pt/H-USY-zeolites. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6750-8	3.4	20
100	Enhanced gas sorption and breathing properties of the new sulfone functionalized COMOC-2 metal organic framework. <i>Dalton Transactions</i> , <b>2016</b> , 45, 9485-91	4.3	20
99	Applying the wave theory to fixed-bed dynamics of Metal-Organic Frameworks exhibiting stepped adsorption isotherms: Water/ethanol separation on ZIF-8. <i>Chemical Engineering Journal</i> , <b>2017</b> , 324, 313-323	14.7	19
98	Shape selective adsorption of linear and branched alkanes in the Cu <sub>3</sub> (BTC) <sub>2</sub> metal-organic framework. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 2048-2053	1.8	19
97	Separation properties of the MIL-125(Ti) Metal-Organic Framework in high-performance liquid chromatography revealing cis/trans selectivity. <i>Journal of Chromatography A</i> , <b>2016</b> , 1469, 68-76	4.5	19
96	Molecular separations with breathing metal-organic frameworks: modelling packed bed adsorbers. <i>Dalton Transactions</i> , <b>2016</b> , 45, 4416-30	4.3	18
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