

Dirk E De Vos

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255
papers

14,863
citations

54
h-index

115
g-index

265
ext. papers

16,859
ext. citations

8.7
avg, IF

6.76
L-index

#	Paper	IF	Citations
255	Ordered mesoporous and microporous molecular sieves functionalized with transition metal complexes as catalysts for selective organic transformations. <i>Chemical Reviews</i> , 2002 , 102, 3615-40	68.1	964
254	Defect-Engineered Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7234-54	16.4	703
253	Synthesis modulation as a tool to increase the catalytic activity of metal-organic frameworks: the unique case of UiO-66(Zr). <i>Journal of the American Chemical Society</i> , 2013 , 135, 11465-8	16.4	692
252	Adsorptive separation on metal-organic frameworks in the liquid phase. <i>Chemical Society Reviews</i> , 2014 , 43, 5766-88	58.5	685
251	Probing the Lewis acidity and catalytic activity of the metal-organic framework [Cu ₃ (btc) ₂] (BTC=benzene-1,3,5-tricarboxylate). <i>Chemistry - A European Journal</i> , 2006 , 12, 7353-63	4.8	601
250	Selective adsorption and separation of xylene isomers and ethylbenzene with the microporous vanadium(IV) terephthalate MIL-47. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4293-7	16.4	462
249	Layered double hydroxides exchanged with tungstate as biomimetic catalysts for mild oxidative bromination. <i>Nature</i> , 1999 , 400, 855-857	50.4	439
248	Hydrotalcite-like anionic clays in catalytic organic reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2001 , 43, 443-488	12.6	402
247	Chemical vapour deposition of zeolitic imidazolate framework thin films. <i>Nature Materials</i> , 2016 , 15, 304-10	27	387
246	An amino-modified Zr-terephthalate metal-organic framework as an acid-base catalyst for cross-aldol condensation. <i>Chemical Communications</i> , 2011 , 47, 1521-3	5.8	358
245	Selective adsorption and separation of ortho-substituted alkylaromatics with the microporous aluminum terephthalate MIL-53. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14170-8	16.4	345
244	Electronic effects of linker substitution on Lewis acid catalysis with metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4887-90	16.4	324
243	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. <i>Chemical Communications</i> , 2015 , 51, 12578-81	5.8	249
242	Metal-organic frameworks as catalysts: the role of metal active sites. <i>Catalysis Science and Technology</i> , 2013 , 3, 1435	5.5	249
241	Modulated UiO-66-Based Mixed-Matrix Membranes for CO ₂ Separation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25193-201	9.5	174
240	Biobased Ionic Liquids: Solvents for a Green Processing Industry?. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2917-2931	8.3	158
239	The structure of the aluminum fumarate metal-organic framework A520. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3664-8	16.4	155

238	Tuning the catalytic performance of metal-organic frameworks in fine chemistry by active site engineering. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10313		151
237	Selective removal of N-heterocyclic aromatic contaminants from fuels by lewis acidic metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4210-4	16.4	145
236	Sequential Pore Wall Modification in a Covalent Organic Framework for Application in Lactic Acid Adsorption. <i>Chemistry of Materials</i> , 2016 , 28, 626-631	9.6	141
235	Liquid-Phase Adsorption and Separation of Xylene Isomers by the Flexible Porous Metal-Organic Framework MIL-53(Fe). <i>Chemistry of Materials</i> , 2012 , 24, 2781-2791	9.6	136
234	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , 2017 , 8, 3939-3948	12.3	123
233	Phosphate-Exchanged Mg-Al Layered Double Hydroxides: A New Slow Release Phosphate Fertilizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4280-4287	8.3	121
232	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> , 2013 , 1, 5827	13	121
231	N/S-heterocyclic contaminant removal from fuels by the mesoporous metal-organic framework MIL-100: the role of the metal ion. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9849-56	16.4	117
230	Palladium catalysts on alkaline-earth supports for racemization and dynamic kinetic resolution of benzylic amines. <i>Chemistry - A European Journal</i> , 2007 , 13, 2034-43	4.8	115
229	Activation of the metal-organic framework MIL-47 for selective adsorption of xylenes and other difunctionalized aromatics. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2979-85	3.6	113
228	Water adsorption behaviour of CAU-10-H: a thorough investigation of its structure-property relationships. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11859-11869	13	112
227	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. <i>Nature Materials</i> , 2016 , 15, 1017-22	27	111
226	Solvent-free synthesis of supported ZIF-8 films and patterns through transformation of deposited zinc oxide precursors. <i>CrystEngComm</i> , 2013 , 15, 9308	3.3	110
225	1,2,4-Triazolium perfluorobutanesulfonate as an archetypal pure protic organic ionic plastic crystal electrolyte for all-solid-state fuel cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1276-1291	35.4	110
224	Selective Alkene Oxidation with H ₂ O and a Heterogenized Mn Catalyst: Epoxidation and a New Entry to Vicinal cis-Diols. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 980-983	16.4	110
223	Three-dimensional visualization of defects formed during the synthesis of metal-organic frameworks: a fluorescence microscopy study. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 401-5	16.4	109
222	Silica-MOF Composites as a Stationary Phase in Liquid Chromatography. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3735-3738	2.3	109
221	Cu-exchanged Al-rich SSZ-13 zeolite from organotemplate-free synthesis as NH ₃ -SCR catalyst: Effects of Na ⁺ ions on the activity and hydrothermal stability. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 421-428	21.8	105

220	Electrocarboxylation: towards sustainable and efficient synthesis of valuable carboxylic acids. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 2484-500	2.5	100
219	Improving the mechanical stability of zirconium-based metal-organic frameworks by incorporation of acidic modulators. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1737-1742	13	96
218	Efficient dynamic kinetic resolution of secondary amines with Pd on alkaline earth salts and a lipase. <i>Chemical Communications</i> , 2005 , 5307-9	5.8	91
217	On the electrochemical deposition of metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3914-3925	13	88
216	Towards metal-organic framework based field effect chemical sensors: UiO-66-NH for nerve agent detection. <i>Chemical Science</i> , 2016 , 7, 5827-5832	9.4	88
215	A Flexible Photoactive Titanium Metal-Organic Framework Based on a [Ti(IV) ₃ (β -O)(O) ₂ (COO) ₆] Cluster. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13912-7	16.4	82
214	A Heterogeneous Tungsten Catalyst for Epoxidation of Terpenes and Tungsten-Catalyzed Synthesis of Acid-Sensitive Terpene Epoxides. <i>Journal of Organic Chemistry</i> , 1999 , 64, 7267-7270	4.2	76
213	Engineering a Highly Defective Stable UiO-66 with Tunable Lewis- Brønsted Acidity: The Role of the Hemilabile Linker. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3174-3183	16.4	73
212	Superactivity of MOF-808 toward Peptide Bond Hydrolysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6325-6335	16.4	72
211	Unravelling the Redox-catalytic Behavior of Ce Metal-Organic Frameworks by X-ray Absorption Spectroscopy. <i>ChemPhysChem</i> , 2018 , 19, 373-378	3.2	69
210	Tackling the Defect Conundrum in UiO-66: A Mixed-Linker Approach to Engineering Missing Linker Defects. <i>Chemistry of Materials</i> , 2017 , 29, 10478-10486	9.6	66
209	Mechanistic studies of aldol condensations in UiO-66 and UiO-66-NH ₂ metal organic frameworks. <i>Journal of Catalysis</i> , 2015 , 331, 1-12	7.3	65
208	Strategies for Enhancing the Catalytic Performance of Metal-Organic Frameworks in the Fixation of CO into Cyclic Carbonates. <i>ChemSusChem</i> , 2017 , 10, 1283-1291	8.3	64
207	Vapor-Phase Deposition and Modification of Metal-Organic Frameworks: State-of-the-Art and Future Directions. <i>Chemistry - A European Journal</i> , 2016 , 22, 14452-60	4.8	64
206	Green synthesis of zirconium-MOFs. <i>CrystEngComm</i> , 2015 , 17, 4070-4074	3.3	62
205	Schiff Base Complexes with Five-Coordinate Cobalt as Dioxygen Activating Sites in Zeolites. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 431-433		62
204	Bimetallic Zn and Hf on Silica Catalysts for the Conversion of Ethanol to 1,3-Butadiene. <i>ACS Catalysis</i> , 2015 , 5, 3393-3397	13.1	59
203	Single-site metal-organic framework catalysts for the oxidative coupling of arenes C-H/C-H activation. <i>Chemical Science</i> , 2019 , 10, 3616-3622	9.4	58

202	Bipyridine-based UiO-67 as novel filler in mixed-matrix membranes for CO ₂ -selective gas separation. <i>Journal of Membrane Science</i> , 2019 , 576, 78-87	9.6	56
201	Lignin solubility in non-imidazolium ionic liquids. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1821-1826	3.5	54
200	Gold redox catalysis for selective oxidation of methane to methanol. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 30-2	16.4	54
199	A Titanium(IV)-Based Metal-Organic Framework Featuring Defect-Rich Ti-O Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9160-9165	16.4	53
198	Chemoselective reduction of α,β -unsaturated carbonyl compounds with UiO-66 materials. <i>Journal of Catalysis</i> , 2016 , 340, 136-143	7.3	53
197	Base catalytic activity of alkaline earth MOFs: a (micro)spectroscopic study of active site formation by the controlled transformation of structural anions. <i>Chemical Science</i> , 2014 , 5, 4517-4524	9.4	53
196	Fuel purification, Lewis acid and aerobic oxidation catalysis performed by a microporous Co-BTT (BTT3 μ -1,3,5-benzenetristetrazolate) framework having coordinatively unsaturated sites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10200		53
195	Waste PET (bottles) as a resource or substrate for MOF synthesis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9519-9525	13	53
194	A new catalyst platform: zeolite Beta from template-free synthesis. <i>Catalysis Science and Technology</i> , 2013 , 3, 2580	5.5	51
193	AN EVALUATION OF ANALYTICAL AND INTERPRETATIVE METHODOLOGIES FOR THE EXTRACTION AND IDENTIFICATION OF LIPIDS ASSOCIATED WITH POTTERY SHERDS FROM THE SITE OF SAGALASSOS, TURKEY*. <i>Archaeometry</i> , 2007 , 49, 729-747	1.6	51
192	Highly stable and porous porphyrin-based zirconium and hafnium phosphonates - electron crystallography as an important tool for structure elucidation. <i>Chemical Science</i> , 2018 , 9, 5467-5478	9.4	50
191	Boosting the Catalytic Performance of Metal-Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13302-13306	16.4	48
190	Support influences in the Pd-catalyzed racemization and dynamic kinetic resolution of chiral benzylic amines. <i>Applied Catalysis A: General</i> , 2009 , 368, 9-16	5.1	48
189	Mechanical properties of electrochemically synthesised metal-organic framework thin films. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7716	7.1	47
188	Improved ruthenium catalysts for the modified Friedlaender quinoline synthesis. <i>New Journal of Chemistry</i> , 2007 , 31, 1572	3.6	47
187	Zn μ 2 Double Metal Cyanides as Heterogeneous Catalysts for Hydroamination: A Structure-Activity Relationship. <i>ACS Catalysis</i> , 2013 , 3, 597-607	13.1	46
186	Efficient and rapid transformation of high silica CHA zeolite from FAU zeolite in the absence of water. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9076-9080	13	45
185	Cellulose conversion into alkylglycosides in the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Green Chemistry</i> , 2010 , 12, 1790	10	44

184	A precursor method for the synthesis of new Ce(IV) MOFs with reactive tetracarboxylate linkers. <i>Chemical Communications</i> , 2018 , 54, 876-879	5.8	44
183	Heterogeneous Catalysts for Racemization and Dynamic Kinetic Resolution of Amines and Secondary Alcohols. <i>Topics in Catalysis</i> , 2010 , 53, 931-941	2.3	43
182	Detecting Molecular Rotational Dynamics Complementing the Low-Frequency Terahertz Vibrations in a Zirconium-Based Metal-Organic Framework. <i>Physical Review Letters</i> , 2017 , 118, 255502	7.4	42
181	Rare-earth ion exchanged Cu-SSZ-13 zeolite from organotemplate-free synthesis with enhanced hydrothermal stability in NH ₃ -SCR of NO _x . <i>Catalysis Science and Technology</i> , 2019 , 9, 241-251	5.5	41
180	Delayed electron-hole pair recombination in iron(III)-oxo metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5044-7	3.6	41
179	Electronic Effects of Linker Substitution on Lewis Acid Catalysis with Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2012 , 124, 4971-4974	3.6	41
178	Three Series of Sulfo-Functionalized Mixed-Linker CAU-10 Analogues: Sorption Properties, Proton Conductivity, and Catalytic Activity. <i>Chemistry - A European Journal</i> , 2015 , 21, 12517-24	4.8	40
177	Species identification of archaeological dung remains: A critical review of potential methods. <i>Environmental Archaeology</i> , 2013 , 18, 5-17	1.2	40
176	Selective Removal of N-Heterocyclic Aromatic Contaminants from Fuels by Lewis Acidic Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2011 , 123, 4296-4300	3.6	40
175	Zr-Based MOF-808 as Meerwein-Ponndorf-Verley Reduction Catalyst for Challenging Carbonyl Compounds. <i>Catalysts</i> , 2016 , 6, 104	4	40
174	The Structure of the Aluminum Fumarate Metal-Organic Framework A520. <i>Angewandte Chemie</i> , 2015 , 127, 3735-3739	3.6	39
173	Carbon dioxide as a reversible amine-protecting agent in selective Michael additions and acylations. <i>Green Chemistry</i> , 2013 , 15, 1550	10	39
172	The Remarkable Amphoteric Nature of Defective UiO-66 in Catalytic Reactions. <i>ChemCatChem</i> , 2017 , 9, 2203-2210	5.2	38
171	Adsorptive desulfurization with CPO-27/MOF-74: an experimental and computational investigation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10759-66	3.6	38
170	Pd-catalyzed decarboxylation of glutamic acid and pyroglutamic acid to bio-based 2-pyrrolidone. <i>Green Chemistry</i> , 2015 , 17, 2263-2270	10	38
169	Vapour-phase deposition of oriented copper dicarboxylate metal-organic framework thin films. <i>Chemical Communications</i> , 2019 , 55, 10056-10059	5.8	37
168	Guanidinium nonaflate as a solid-state proton conductor. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12241-12256	3.3	36
167	Alcohol amination with heterogeneous ruthenium hydroxyapatite catalysts. <i>Applied Catalysis A: General</i> , 2014 , 469, 191-197	5.1	36

166	Agronomic Effectiveness of Granulated and Powdered P-Exchanged Mg-Al LDH Relative to Struvite and MAP. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 6736-6744	5.7	36
165	Enhancement of low-temperature activity over Cu-exchanged zeolite beta from organotemplate-free synthesis for the selective catalytic reduction of NO _x with NH ₃ in exhaust gas streams. <i>Microporous and Mesoporous Materials</i> , 2014 , 200, 304-310	5.3	36
164	Protein-Rich Biomass Waste as a Resource for Future Biorefineries: State of the Art, Challenges, and Opportunities. <i>ChemSusChem</i> , 2019 , 12, 1272-1303	8.3	34
163	First examples of aliphatic zirconium MOFs and the influence of inorganic anions on their crystal structures. <i>CrystEngComm</i> , 2015 , 17, 331-337	3.3	34
162	A Breathing Zirconium Metal-Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. <i>Chemistry - A European Journal</i> , 2016 , 22, 3264-3267	4.8	34
161	Isolation of Renewable Phenolics by Adsorption on Ultrastable Hydrophobic MIL-140 Metal-Organic Frameworks. <i>ChemSusChem</i> , 2015 , 8, 3159-66	8.3	33
160	Heterogeneous Enzyme Mimics Based on Zeolites and Layered Hydroxides. <i>Cattech</i> , 2002 , 6, 14-29		33
159	End-of-life treatment of poly(vinyl chloride) and chlorinated polyethylene by dehydrochlorination in ionic liquids. <i>ChemSusChem</i> , 2014 , 7, 610-7	8.3	32
158	Development of a post-synthetic method for tuning the Al content of OSDA-free Beta as a catalyst for conversion of methanol to olefins. <i>Catalysis Science and Technology</i> , 2016 , 6, 713-721	5.5	31
157	Active Role of Methanol in Post-Synthetic Linker Exchange in the Metal-Organic Framework UiO-66. <i>Chemistry of Materials</i> , 2019 , 31, 1359-1369	9.6	31
156	Ru-Catalyzed Hydrogenation/Decarbonylation of Amino Acids to Bio-based Primary Amines. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3290-3295	8.3	30
155	Solvent-Free Powder Synthesis and MOF-CVD Thin Films of the Large-Pore Metal-Organic Framework MAF-6. <i>Chemistry of Materials</i> , 2020 , 32, 1784-1793	9.6	30
154	The use of ultrastable Y zeolites in the Ferrier rearrangement of acetylated and benzylated glycals. <i>Green Chemistry</i> , 2010 , 12, 828	10	30
153	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> , 2016 , 18, 3294-301	3.6	29
152	Three-Dimensional Visualization of Defects Formed during the Synthesis of Metal-Organic Frameworks: A Fluorescence Microscopy Study. <i>Angewandte Chemie</i> , 2013 , 125, 419-423	3.6	29
151	Molecular evidence for the mixing of Meat, Fish and Vegetables in Anglo-Saxon coarseware from Hamwic, UK. <i>Archaeometry</i> , 2013 , 55, 1150-1174	1.6	29
150	Lewis acid double metal cyanide catalysts for hydroamination of phenylacetylene. <i>Chemical Communications</i> , 2011 , 47, 4114-6	5.8	29
149	Transformation synthesis of aluminosilicate SSZ-39 zeolite from ZSM-5 and beta zeolite. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4420-4425	13	28

148	S,O-Functionalized Metal-Organic Frameworks as Heterogeneous Single-Site Catalysts for the Oxidative Alkenylation of Arenes via C-H activation. <i>ACS Catalysis</i> , 2020 , 10, 5077-5085	13.1	27
147	Zr-Metal-Organic Framework Catalysts for Oxidative Desulfurization and Their Improvement by Postsynthetic Ligand Exchange. <i>Small Methods</i> , 2018 , 2, 1800203	12.8	27
146	Ag nanoparticles on mixed Al ₂ O ₃ /TiO ₂ supports as catalysts for the N-alkylation of amines with alcohols. <i>Applied Catalysis A: General</i> , 2014 , 469, 373-379	5.1	27
145	Miniaturized Layer-by-Layer Deposition of Metal-Organic Framework Coatings through Digital Microfluidics. <i>Chemistry of Materials</i> , 2013 , 25, 1021-1023	9.6	27
144	Selektive Alkenoxidation mit H ₂ O ₂ und einem heterogenisierten Mn-Katalysator: Epoxidierung und ein neuer Zugang zu vicinalen cis-Diolen. <i>Angewandte Chemie</i> , 1999 , 111, 1033-1036	3.6	27
143	Metal-Organic Framework Derived Metal Oxide Clusters in Porous Aluminosilicates: A Catalyst Design for the Synthesis of Bioactive aza-Heterocycles. <i>ACS Catalysis</i> , 2019 , 9, 44-48	13.1	27
142	Selective One-Pot Two-Step C-C Bond Formation using Metal-Organic Frameworks with Mild Basicity as Heterogeneous Catalysts. <i>ChemCatChem</i> , 2017 , 9, 4019-4023	5.2	26
141	Bulk-to-Surface Proton-Coupled Electron Transfer Reactivity of the Metal-Organic Framework MIL-125. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16184-16189	16.4	26
140	A Titanium(IV)-Based Metal-Organic Framework Featuring Defect-Rich Ti-O Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie</i> , 2019 , 131, 9258-9263	3.6	25
139	Bio-based nitriles from the heterogeneously catalyzed oxidative decarboxylation of amino acids. <i>ChemSusChem</i> , 2015 , 8, 345-52	8.3	25
138	Pathway to Vinyl Chloride Production via Dehydrochlorination of 1,2-Dichloroethane in Ionic Liquid Media. <i>ACS Catalysis</i> , 2015 , 5, 4043-4047	13.1	25
137	Smart Metal-Organic Framework Coatings: Triggered Antibiofilm Compound Release. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4440-4449	9.5	24
136	Ruthenium-catalyzed aerobic oxidative decarboxylation of amino acids: a green, zero-waste route to biobased nitriles. <i>Chemical Communications</i> , 2015 , 51, 6528-31	5.8	24
135	Highly Selective Removal of Perfluorinated Contaminants by Adsorption on All-Silica Zeolite Beta. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14086-14090	16.4	24
134	Stabilizing Effect of Bulky β -Diketones on Homogeneous Mo Catalysts for Deoxydehydration. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12197-12204	8.3	24
133	A new class of solid Lewis acid catalysts based on interlayer expansion of layered silicates of the RUB-36 type with heteroatoms. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9709-9717	13	24
132	Increasing the availability of active sites in Zn-Co double metal cyanides by dispersion onto a SiO ₂ support. <i>Journal of Catalysis</i> , 2017 , 354, 92-99	7.3	24
131	Adsorption and Separation of Aromatic Amino Acids from Aqueous Solutions Using Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30064-30073	9.5	24

130	Fe-doped Beta zeolite from organotemplate-free synthesis for NH ₃ -SCR of NO _x . <i>Catalysis Science and Technology</i> , 2016 , 6, 6581-6592	5.5	23
129	Recent advances in the preparation of zeolites for the selective catalytic reduction of NO _x in diesel engines. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 975-985	4.9	23
128	Highly selective one-step dehydration, decarboxylation and hydrogenation of citric acid to methylsuccinic acid. <i>Chemical Science</i> , 2017 , 8, 2616-2620	9.4	22
127	Parts per Million Detection of Alcohol Vapors via Metal Organic Framework Functionalized Surface Plasmon Resonance Sensors. <i>Analytical Chemistry</i> , 2017 , 89, 4480-4487	7.8	22
126	Electrochemical dicarboxylation of conjugated fatty acids as an efficient valorization of carbon dioxide. <i>RSC Advances</i> , 2013 , 3, 4634	3.7	22
125	Tetrabutylphosphonium Bromide Catalyzed Dehydration of Diols to Dienes and Its Application in the Biobased Production of Butadiene. <i>ACS Catalysis</i> , 2017 , 7, 5802-5809	13.1	22
124	Counteranion effects on the catalytic activity of copper salts immobilized on the 2,2'-bipyridine-functionalized metal-organic framework MOF-253. <i>Catalysis Today</i> , 2015 , 246, 55-59	5.3	21
123	Direct liquid-phase phenol-to-aniline amination using Pd/C. <i>Catalysis Science and Technology</i> , 2018 , 8, 2519-2523	5.5	21
122	Expanding the Variety of Zirconium-based Inorganic Building Units for Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10995-11000	16.4	20
121	Geminal Coordinatively Unsaturated Sites on MOF-808 for the Selective Uptake of Phenolics from a Real Bio-Oil Mixture. <i>ChemSusChem</i> , 2019 , 12, 1256-1266	8.3	20
120	C2-H Arylation of Indoles Catalyzed by Palladium-Containing Metal-Organic-Framework in γ -Valerolactone. <i>ChemSusChem</i> , 2020 , 13, 2786-2791	8.3	20
119	Unravelling Why and to What Extent the Topology of Similar Ce-Based MOFs Conditions their Photodynamic: Relevance to Photocatalysis and Photonics. <i>Advanced Science</i> , 2019 , 6, 1901020	13.6	20
118	Decarboxylation of a Wide Range of Amino Acids with Electrogenerated Hypobromite. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 6649-6652	3.2	20
117	Holy smoke in medieval funerary rites: chemical fingerprints of frankincense in southern Belgian incense burners. <i>PLoS ONE</i> , 2014 , 9, e113142	3.7	20
116	Sacrificial Anode-Free Electrosynthesis of β -Hydroxy Acids via Electrocatalytic Coupling of Carbon Dioxide to Aromatic Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15860-15864	8.3	19
115	Resolving Interparticle Heterogeneities in Composition and Hydrogenation Performance between Individual Supported Silver on Silica Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 6690-6695	13.1	19
114	PdPb-Catalyzed Decarboxylation of Proline to Pyrrolidine: Highly Selective Formation of a Biobased Amine in Water. <i>ACS Catalysis</i> , 2016 , 6, 7303-7310	13.1	19
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2	Reply to Comment on "Highly Selective Removal of Perfluorinated Contaminants by Adsorption on All-Silica Zeolite Beta". <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13710-13711	16.4	
1	Reply to Comment on Highly Selective Removal of Perfluorinated Contaminants by Adsorption on All-Silica Zeolite Beta <i>Angewandte Chemie</i> , 2021 , 133, 13826-13827	3.6	