

Dirk E De Vos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Alkylation of isobutane with butenes using OSDA-free zeolite beta. <i>Journal of Catalysis</i> , 2022 , 406, 206-213	7.3	1
254	Catalytic upcycling of PVC waste-derived phthalate esters into safe, hydrogenated plasticizers. <i>Green Chemistry</i> , 2022 , 24, 754-766	10	1
253	Ammonolytic Hydrogenation of Secondary Amides: An Efficient Method for the Recycling of Long-Chain Polyamides. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3048-3056	8.3	2
252	Sustainable formation of tricarballylic acid from citric acid over highly stable Pd/Nb ₂ O ₅ ·H ₂ O catalysts. <i>Journal of Catalysis</i> , 2022 , 408, 88-97	7.3	2
251	Ligand-Controlled Selectivity in the Pd-Catalyzed C _H /C _H Cross-Coupling of Indoles with Molecular Oxygen. <i>ACS Catalysis</i> , 2021 , 11, 2435-2444	13.1	6
250	Porosimetry for Thin Films of Metal-Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorption-Based Methods. <i>Advanced Materials</i> , 2021 , 33, e2006993	24	14
249	Bimetallic Ce/Zr UiO-66 Metal-Organic Framework Nanostructures as Peptidase and Oxidase Nanozymes. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5748-5757	5.6	8
248	Porosimetry: Porosimetry for Thin Films of Metal-Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorption-Based Methods (Adv. Mater. 17/2021). <i>Advanced Materials</i> , 2021 , 33, 2170133	24	1
247	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	
246	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	
245	Gold and Silver-Catalyzed Reductive Amination of Aromatic Carboxylic Acids to Benzylic Amines. <i>ACS Catalysis</i> , 2021 , 11, 7672-7684	13.1	5
244	From crude industrial waste glycerol to biopropene Ru-mediated hydrodeoxygenation in ionic liquids. <i>Chemical Communications</i> , 2021 , 57, 6324-6327	5.8	2
243	Direct Electrocatalytic N _H Aziridination of Aromatic Alkenes Using Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11596-11603	8.3	2
242	Revisiting the Extended X-ray Absorption Fine Structure Fitting Procedure through a Machine Learning-Based Approach. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7080-7091	2.8	4
241	Electro-oxidative C(sp ²)/O _H cross-dehydrogenative coupling of phenols and tertiary anilines for diaryl ether formation. <i>Catalysis Science and Technology</i> , 2021 , 11, 3925-3930	5.5	1
240	Speciation of Ru Molecular Complexes in a Homogeneous Catalytic System: Fingerprint XANES Analysis Guided by Machine Learning. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27844-27852	3.8	3
239	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

238	Highly Selective Removal of Perfluorinated Contaminants by Adsorption on All-Silica Zeolite Beta. <i>Angewandte Chemie</i> , 2020 , 132, 14190-14194	3.6	9
237	Aqueous Flow Reactor and Vapour-Assisted Synthesis of Aluminium Dicarboxylate Metal-Organic Frameworks with Tuneable Water Sorption Properties. <i>Chemistry - A European Journal</i> , 2020 , 26, 10841-10848	4.8	5
236	X-Ray-Induced Growth Dynamics of Luminescent Silver Clusters in Zeolites. <i>Small</i> , 2020 , 16, e2002063	11	6
235	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15649-15655	16.4	9
234	Recycling of Flexible Polyurethane Foam by Split-Phase Alcoholysis: Identification of Additives and Alcoholyzing Agents to Reach Higher Efficiencies. <i>ChemSusChem</i> , 2020 , 13, 3835	8.3	10
233	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. <i>Angewandte Chemie</i> , 2020 , 132, 15779-15785	3.6	1
232	Cu-Exchanged CHA-Type Zeolite from Organic Template-Free Synthesis: An Effective Catalyst for NH ₃ -SCR. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7375-7382	3.9	7
231	One-pot reductive amination of carboxylic acids: a sustainable method for primary amine synthesis. <i>Green Chemistry</i> , 2020 , 22, 5105-5114	10	11
230	Olefins from Biobased Sugar Alcohols via Selective, Ru-Mediated Reaction in Catalytic Phosphonium Ionic Liquids. <i>ACS Catalysis</i> , 2020 , 10, 9401-9409	13.1	8
229	Cooperative acid-base bifunctional ordered porous solids in sequential multi-step reactions: MOF vs. mesoporous silica. <i>Catalysis Science and Technology</i> , 2020 , 10, 1796-1802	5.5	6
228	Ni-Catalyzed reductive amination of phenols with ammonia or amines into cyclohexylamines. <i>Green Chemistry</i> , 2020 , 22, 1884-1893	10	16
227	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
226	CuI/H-USY as a regenerable bifunctional catalyst for the additive-free C-H amination of azoles. <i>Catalysis Science and Technology</i> , 2020 , 10, 940-943	5.5	1
225	Regioselective C-H hydroxylation of n-alkanes using Shilov-type Pt catalysis in perfluorinated micro-emulsions. <i>Catalysis Science and Technology</i> , 2020 , 10, 1264-1272	5.5	3
224	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
223	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
222	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
221	Unexpected linker-dependent Brønsted acidity in the (Zr)UiO-66 metal organic framework and application to biomass valorization. <i>Catalysis Science and Technology</i> , 2020 , 10, 4002-4009	5.5	14

220	Interplay between structural parameters and reactivity of Zr-based MOFs as artificial proteases. <i>Chemical Science</i> , 2020 , 11, 6662-6669	9.4	17
219	Novel heterogeneous ruthenium racemization catalyst for dynamic kinetic resolution of chiral aliphatic amines. <i>Green Chemistry</i> , 2020 , 22, 85-93	10	3
218	Selective catalytic reduction of NO by cerium-based metal-organic frameworks. <i>Catalysis Science and Technology</i> , 2020 , 10, 337-341	5.5	17
217	Solvent-Free Powder Synthesis and Thin Film Chemical Vapor Deposition of a Zinc Bipyridyl-Triazolate Framework. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 71-74	2.3	10
216	Selective defunctionalization of citric acid to tricarballic acid as a precursor for the production of high-value plasticizers. <i>Green Chemistry</i> , 2020 , 22, 7812-7822	10	5
215	Heterogeneous Single-Site Catalysts for C-H Activation Reactions: Pd(II)-Loaded S,O-Functionalized Metal Oxide-Bisphosphonates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47457-47466	9.5	6
214	Thermal defect engineering of precious group metal-organic frameworks: impact on the catalytic cyclopropanation reaction. <i>Catalysis Science and Technology</i> , 2020 , 10, 8077-8085	5.5	1
213	Shape-selective C-H activation of aromatics to biaryl compounds using molecular palladium in zeolites. <i>Nature Catalysis</i> , 2020 , 3, 1002-1009	36.5	15
212	Coplanar versus Noncoplanar Carboxyl Groups: The Influence of Sterically Enforced Noncoplanarity on the 2D Mixing Behavior of Benzene Tricarboxylic Acids. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24874-24882	3.8	4
211	Innentitelbild: Highly Selective Removal of Perfluorinated Contaminants by Adsorption on All-Silica Zeolite Beta (Angew. Chem. 33/2020). <i>Angewandte Chemie</i> , 2020 , 132, 13770-13770	3.6	0
210	Nanozymatic Activity of UiO-66 Metal-Organic Frameworks: Tuning the Nanopore Environment Enhances Hydrolytic Activity toward Peptide Bonds. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8931-8938	5.6	17
209	The Dual Effect of the Acetate Ligand on the Mechanism of the Pd-Catalyzed C-H/C-H Coupling of Benzene. <i>ChemCatChem</i> , 2020 , 12, 90-94	5.2	2
208	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
207	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
206	Sodium-coupled electron transfer reactivity of metal-organic frameworks containing titanium clusters: the importance of cations in redox chemistry. <i>Chemical Science</i> , 2019 , 10, 1322-1331	9.4	17
205	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
204	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
203	Pt-Catalyzed Hydroxylation of Terminal Aliphatic C(sp ³)-H Bonds with Molecular Oxygen. <i>Chemistry - A European Journal</i> , 2019 , 25, 10724-10734	4.8	9

202	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
201	The first water-based synthesis of Ce(IV)-MOFs with saturated chiral and achiral C-dicarboxylate linkers. <i>Dalton Transactions</i> , 2019 , 48, 8433-8441	4.3	14
200	Expanding the Variety of Zirconium-based Inorganic Building Units for Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019 , 131, 11111-11116	3.6	9
199	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
198	Phenolics isolation from bio-oil using the metal-organic framework MIL-53(Al) as a highly selective adsorbent. <i>Chemical Communications</i> , 2019 , 55, 6245-6248	5.8	3
197	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
196	Metal ion exchange in Prussian blue analogues: Cu(II)-exchanged Zn-Co PBAs as highly selective catalysts for A coupling. <i>Dalton Transactions</i> , 2019 , 48, 3946-3954	4.3	12
195	Layered Zn[Co(CN)](CHCOO) double metal cyanide: a two-dimensional DMC phase with excellent catalytic performance. <i>Chemical Science</i> , 2019 , 10, 4868-4875	9.4	9
194	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
193	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
192	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
191	Sustainable hydrogenation of aliphatic acyclic primary amides to primary amines with recyclable heterogeneous ruthenium- μ -oxo catalysts. <i>Green Chemistry</i> , 2019 , 21, 5326-5335	10	12
190	Vapour-phase deposition of oriented copper dicarboxylate metal-organic framework thin films. <i>Chemical Communications</i> , 2019 , 55, 10056-10059	5.8	37
189	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
188	Organocatalytic Decarboxylation of Amino Acids as a Route to Bio-based Amines and Amides. <i>ChemCatChem</i> , 2019 , 11, 4297-4306	5.2	12
187	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18318-18324	16.4	15
186	Modulator-Mediated Functionalization of MOF-808 as a Platform Tool to Create High-Performance Mixed-Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44792-44801	9.5	19
185	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

184	The impact of the nature of amine reactants in the palladium catalyzed conversion of phenol to N-substituted anilines. <i>Journal of Catalysis</i> , 2019 , 371, 207-213	7.3	11
183	Double metal cyanides as heterogeneous Lewis acid catalysts for nitrile synthesis via acid-nitrile exchange reactions. <i>Chemical Communications</i> , 2019 , 55, 12984-12987	5.8	1
182	Surfactant-templated zeolites for the production of active pharmaceutical intermediates. <i>Chemical Communications</i> , 2019 , 55, 12869-12872	5.8	9
181	Network topology and cavity confinement-controlled diastereoselectivity in cyclopropanation reactions catalyzed by porphyrin-based MOFs. <i>Catalysis Science and Technology</i> , 2019 , 9, 6452-6459	5.5	9
180	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
179	Solid-state speciation of interlayer anions in layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 151-162	9.3	7
178	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
177	Synthesis and characterisation of alkyd resins with glutamic acid-based monomers.. <i>RSC Advances</i> , 2018 , 8, 8220-8227	3.7	6
176	The isotopic exchangeability of phosphate in Mg-Al layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2018 , 520, 25-32	9.3	17
175	Ionic liquids vs. microporous solids as reusable reaction media for the catalytic C ₈ H functionalization of indoles with alcohols. <i>Green Chemistry</i> , 2018 , 20, 2481-2485	10	18
174	Superactivity of MOF-808 toward Peptide Bond Hydrolysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6325-6335	16.4	72
173	Tunable Prussian blue analogues for the selective synthesis of propargylamines through A ₃ coupling. <i>Catalysis Science and Technology</i> , 2018 , 8, 2061-2065	5.5	18
172	Direct liquid-phase phenol-to-aniline amination using Pd/C. <i>Catalysis Science and Technology</i> , 2018 , 8, 2519-2523	5.5	21
171	Conversion of lactide to acrylic acid by a phosphonium ionic liquid and acid cocatalyst. <i>Catalysis Science and Technology</i> , 2018 , 8, 1468-1474	5.5	12
170	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
169	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
168	The Rhodium Catalysed Direct Conversion of Phenols to Primary Cyclohexylamines. <i>ChemCatChem</i> , 2018 , 10, 3689-3693	5.2	16
167	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

166	MOFs Extend the Lifetime of Pd(II) Catalyst for Room Temperature Alkenylation of Enamine-Like Arenes. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 3872-3876	5.6	9
165	Pd(II)/Ni(II) Pyrazolate Framework as Active and Recyclable Catalyst for the Hydroamination of Terminal Alkynes. <i>Topics in Catalysis</i> , 2018 , 61, 1414-1423	2.3	15
164	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
163	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
162	Evidence for regioselective Pt(II)-mediated hydroxylation of long linear alkanes in acetic acid. <i>Journal of Catalysis</i> , 2018 , 368, 345-353	7.3	1
161	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
160	Rh-Catalyzed Hydrogenation of Amino Acids to Biobased Amino Alcohols: Tackling Challenging Substrates and Application to Protein Hydrolysates. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9218-9228	8.3	12
159	Smart Metal-Organic Framework Coatings: Triggered Antibiofilm Compound Release. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4440-4449	9.5	24
158	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
157	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
156	An in situ investigation of the water-induced phase transformation of UTSA-74 to MOF-74(Zn). <i>CrystEngComm</i> , 2017 , 19, 4152-4156	3.3	14
155	The Remarkable Amphoteric Nature of Defective UiO-66 in Catalytic Reactions. <i>ChemCatChem</i> , 2017 , 9, 2203-2210	5.2	38
154	Tuning luminescent properties of a metal organic framework by insertion of metal complexes. <i>Supramolecular Chemistry</i> , 2017 , 29, 758-767	1.8	6
153	Metal-catalyzed reductive deamination of glutamic acid to bio-based dimethyl glutarate and methylamines. <i>Green Chemistry</i> , 2017 , 19, 1866-1876	10	14
152	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
151	Improved resolution and simplification of the spin-diffusion-based NMR method for the structural analysis of mixed-linker MOFs. <i>Journal of Magnetic Resonance</i> , 2017 , 279, 22-28	3	17
150	Adsorption and Reactive Desorption on Metal-Organic Frameworks: A Direct Strategy for Lactic Acid Recovery. <i>ChemSusChem</i> , 2017 , 10, 643-650	8.3	13
149	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

148	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
147	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , 2017 , 8, 3939-3948	3.8	123
146	Controlled defunctionalisation of biobased organic acids. <i>Chemical Communications</i> , 2017 , 53, 5682-5693	3.8	11
145	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
144	Stepped water isotherm and breakthrough curves on aluminium fumarate metal-organic framework: experimental and modelling study. <i>Adsorption</i> , 2017 , 23, 185-192	2.6	10
143	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
142	Adsorption and Selective Recovery of Citric Acid with Poly(4-vinylpyridine). <i>ChemSusChem</i> , 2017 , 10, 4864-4871	8.3	8
141	Emergence of Nonlinear Optical Activity by Incorporation of a Linker Carrying the -Nitroaniline Motif in MIL-53 Frameworks. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25509-25519	3.8	12
140	Stabilising Ni catalysts for the dehydration-decarboxylation-hydrogenation of citric acid to methylsuccinic acid. <i>Green Chemistry</i> , 2017 , 19, 4642-4650	10	5
139	Boosting the Catalytic Performance of Metal-Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. <i>Angewandte Chemie</i> , 2017 , 129, 13487-13491	3.6	9
138	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
137	Bio-based N-alkyl-2-pyrrolidones by Pd-catalyzed reductive N-alkylation and decarboxylation of glutamic acid. <i>Green Chemistry</i> , 2017 , 19, 4919-4929	10	12
136	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
135	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
134	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
133	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
132	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
131	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

130	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
129	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
128	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
127	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
126	Guanidinium nonaflate as a solid-state proton conductor. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12241-12256	13.1	36
125	Flavor Activity of Sesquiterpene Oxidation Products, Formed upon Lab-Scale Boiling of a Hop Essential Oil-Derived Sesquiterpene Hydrocarbon Fraction (cv. Saaz). <i>Journal of the American Society of Brewing Chemists</i> , 2016 , 74, 65-76	1.9	11
124	Chemoselective reduction of α -unsaturated carbonyl compounds with UiO-66 materials. <i>Journal of Catalysis</i> , 2016 , 340, 136-143	7.3	53
123	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. <i>Nature Materials</i> , 2016 , 15, 1017-22	27	111
122	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
121	Second harmonic generation microscopy reveals hidden polar organization in fluoride doped MIL-53(Fe). <i>Dalton Transactions</i> , 2016 , 45, 4401-6	4.3	17
120	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
119	Chemical vapour deposition of zeolitic imidazolate framework thin films. <i>Nature Materials</i> , 2016 , 15, 304-10	27	387
118	On the electrochemical deposition of metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3914-3925	13	88
117	10-Vertex closo-carborane: a unique ligand platform for porous coordination polymers. <i>CrystEngComm</i> , 2016 , 18, 2036-2040	3.3	16
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