Dirk E De Vos

List of Publications by Year
in descending order

250 papers	18,987 citations	18482 62 h-index	14208 128 g-index
265 all docs	265 docs citations	265 times ranked	18078 citing authors

#	Article	IF	Citations
1	Ordered Mesoporous and Microporous Molecular Sieves Functionalized with Transition Metal Complexes as Catalysts for Selective Organic Transformations. Chemical Reviews, 2002, 102, 3615-3640.	47.7	1,015
2	Defectâ€Engineered Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 7234-7254.	13.8	923
3	Synthesis Modulation as a Tool To Increase the Catalytic Activity of Metalâ€“Organic Frameworks: The Unique Case of UiO-66(Zr). Journal of the American Chemical Society, 2013, 135, 11465-11468.	13.7	871
4	Adsorptive separation on metalâ€“organic frameworks in the liquid phase. Chemical Society Reviews, 2014, 43, 5766-5788.	38.1	772
5	Probing the Lewis Acidity and Catalytic Activity of the Metalâ€“Organic Framework [Cu3(btc)2] (BTC=Benzene-1,3,5-tricarboxylate). Chemistry - A European Journal, 2006, 12, 7353-7363.	3.3	651
6	Chemical vapour deposition of zeolitic imidazolate framework thinÂfilms. Nature Materials, 2016, 15, 304-310.	27.5	528
7	Layered double hydroxides exchanged with tungstate as biomimetic catalysts for mild oxidative bromination. Nature, 1999, 400, 855-857.	27.8	496
8	Selective Adsorption and Separation of Xylene Isomers and Ethylbenzene with the Microporous Vanadium(IV) Terephthalate MIL-47. Angewandte Chemie - International Edition, 2007, 46, 4293-4297.	13.8	496
9	Hydrotalcite-like anionic clays in catalytic organic reactions. Catalysis Reviews - Science and Engineering, 2001, 43, 443-488.	12.9	449
10	An amino-modified Zr-terephthalate metalâ€“organic framework as an acidâ€“base catalyst for cross-aldol condensation. Chemical Communications, 2011, 47, 1521-1523.	4.1	392
11	Electronic Effects of Linker Substitution on Lewis Acid Catalysis with Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 4887-4890.	13.8	384
12	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. Chemical Communications, 2015, 51, 12578-12581.	4.1	377
13	Selective Adsorption and Separation of ortho-Substituted Alkylaromatics with the Microporous Aluminum Terephthalate MIL-53. Journal of the American Chemical Society, 2008, 130, 14170-14178.	13.7	376
14	Metalâ€“organic frameworks as catalysts: the role of metal active sites. Catalysis Science and Technology, 2013, 3, 1435.	4.1	275
15	Modulated UiO-66-Based Mixed-Matrix Membranes for CO₂ Separation. ACS Applied Materials & Interfaces, 2015, 7, 25193-25201.	8.0	221
16	The Structure of the Aluminum Fumarate Metalâ€“Organic Framework A520. Angewandte Chemie - International Edition, 2015, 54, 3664-3668.	13.8	206
17	Biobased Ionic Liquids: Solvents for a Green Processing Industry?. ACS Sustainable Chemistry and Engineering, 2016, 4, 2917-2931.	6.7	195
18	Sequential Pore Wall Modification in a Covalent Organic Framework for Application in Lactic Acid Adsorption. Chemistry of Materials, 2016, 28, 626-631.	6.7	189

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19	Gel-based morphological design of zirconium metalâ€“organic frameworks. Chemical Science, 2017, 8, 3939-3948.	7.4	177
20	Tuning the catalytic performance of metalâ€“organic frameworks in fine chemistry by active site engineering. Journal of Materials Chemistry, 2012, 22, 10313.	6.7	176
21	High pressure, high temperature electrochemical synthesis of metalâ€“organic frameworks: films of MIL-100 (Fe) and HKUST-1 in different morphologies. Journal of Materials Chemistry A, 2013, 1, 5827.	10.3	167
22	Water adsorption behaviour of CAU-10-H: a thorough investigation of its structureâ€“property relationships. Journal of Materials Chemistry A, 2016, 4, 11859-11869.	10.3	166
23	Cu-exchanged Al-rich SSZ-13 zeolite from organotemplate-free synthesis as NH3-SCR catalyst: Effects of Na+ ions on the activity and hydrothermal stability. Applied Catalysis B: Environmental, 2017, 217, 421-428.	20.2	161
24	Liquid-Phase Adsorption and Separation of Xylene Isomers by the Flexible Porous Metalâ€“Organic Framework MIL-53(Fe). Chemistry of Materials, 2012, 24, 2781-2791.	6.7	160
25	Phosphate-Exchanged Mgâ€“Al Layered Double Hydroxides: A New Slow Release Phosphate Fertilizer. ACS Sustainable Chemistry and Engineering, 2016, 4, 4280-4287.	6.7	160
26	Selective Removal of Nâ€Heterocyclic Aromatic Contaminants from Fuels by Lewis Acidic Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2011, 50, 4210-4214.	13.8	159
27	Engineering a Highly Defective Stable UiO-66 with Tunable Lewis- BrÃ¸nsted Acidity: The Role of the Hemilabile Linker. Journal of the American Chemical Society, 2020, 142, 3174-3183.	13.7	156
28	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. Nature Materials, 2016, 15, 1017-1022.	27.5	153
29	Electrocarboxylation: towards sustainable and efficient synthesis of valuable carboxylic acids. Beilstein Journal of Organic Chemistry, 2014, 10, 2484-2500.	2.2	150
30	Selective Alkene Oxidation with H2O2 and a Heterogenized Mn Catalyst: Epoxidation and a New Entry to Vicinalcis-Diols. Angewandte Chemie - International Edition, 1999, 38, 980-983.	13.8	139
31	N/S-Heterocyclic Contaminant Removal from Fuels by the Mesoporous Metalâ€“Organic Framework MIL-100: The Role of the Metal Ion. Journal of the American Chemical Society, 2013, 135, 9849-9856.	13.7	138
32	On the electrochemical deposition of metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 3914-3925.	10.3	138
33	1,2,4-Triazolium perfluorobutanesulfonate as an archetypal pure protic organic ionic plastic crystal electrolyte for all-solid-state fuel cells. Energy and Environmental Science, 2015, 8, 1276-1291.	30.8	134
34	Solvent-free synthesis of supported ZIF-8 films and patterns through transformation of deposited zinc oxide precursors. CrystEngComm, 2013, 15, 9308.	2.6	124
35	Palladium Catalysts on Alkaline-Earth Supports for Racemization and Dynamic Kinetic Resolution of Benzylic Amines. Chemistry - A European Journal, 2007, 13, 2034-2043.	3.3	123
36	Threeâ€Dimensional Visualization of Defects Formed during the Synthesis of Metalâ€“Organic Frameworks: A Fluorescence Microscopy Study. Angewandte Chemie - International Edition, 2013, 52, 401-405.	13.8	121

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37	Silicaâ€“MOF Composites as a Stationary Phase in Liquid Chromatography. European Journal of Inorganic Chemistry, 2010, 2010, 3735-3738.	2.0	120
38	Superactivity of MOF-808 toward Peptide Bond Hydrolysis. Journal of the American Chemical Society, 2018, 140, 6325-6335.	13.7	120
39	Activation of the metalâ€“organic framework MIL-47 for selective adsorption of xylenes and other difunctionalized aromatics. Physical Chemistry Chemical Physics, 2008, 10, 2979.	2.8	119
40	Improving the mechanical stability of zirconium-based metalâ€“organic frameworks by incorporation of acidic modulators. Journal of Materials Chemistry A, 2015, 3, 1737-1742.	10.3	116
41	Towards metalâ€“organic framework based field effect chemical sensors: UiO-66-NH₂ for nerve agent detection. Chemical Science, 2016, 7, 5827-5832.	7.4	108
42	Efficient dynamic kinetic resolution of secondary amines with Pd on alkaline earth salts and a lipase. Chemical Communications, 2005, , 5307.	4.1	105
43	A Flexible Photoactive Titanium Metalâ€“Organic Framework Based on a [Ti^{IV}₃(Î¼₃â€“O)(O)₂(COO)₆] Cluster. Angewandte Chemie - International Edition, 2015, 54, 13912-13917.	13.8	103
44	Tackling the Defect Conundrum in UiO-66: A Mixed-Linker Approach to Engineering Missing Linker Defects. Chemistry of Materials, 2017, 29, 10478-10486.	6.7	102
45	Waste PET (bottles) as a resource or substrate for MOF synthesis. Journal of Materials Chemistry A, 2016, 4, 9519-9525.	10.3	100
46	A Heterogeneous Tungsten Catalyst for Epoxidation of Terpenes and Tungsten-Catalyzed Synthesis of Acid-Sensitive Terpene Epoxides. Journal of Organic Chemistry, 1999, 64, 7267-7270.	3.2	99
47	A Titanium(IV)â€Based Metalâ€“Organic Framework Featuring Defectâ€Rich Tiâ€O Sheets as an Oxidative Desulfurization Catalyst. Angewandte Chemie - International Edition, 2019, 58, 9160-9165.	13.8	99
48	Unravelling the Redoxâ€catalytic Behavior of Ce⁴⁺ Metalâ€“Organic Frameworks by Xâ€ray Absorption Spectroscopy. ChemPhysChem, 2018, 19, 373-378.	2.1	89
49	Mechanistic studies of aldol condensations in UiO-66 and UiO-66-NH 2 metal organic frameworks. Journal of Catalysis, 2015, 331, 1-12.	6.2	88
50	Green synthesis of zirconium-MOFs. CrystEngComm, 2015, 17, 4070-4074.	2.6	85
51	Vaporâ€Phase Deposition and Modification of Metalâ€“Organic Frameworks: Stateâ€ofâ€theâ€Art and Future Directions. Chemistry - A European Journal, 2016, 22, 14452-14460.	3.3	81
52	Single-site metalâ€“organic framework catalysts for the oxidative coupling of arenes via Câ€“H/Câ€“H activation. Chemical Science, 2019, 10, 3616-3622.	7.4	77
53	Fuel purification, Lewis acid and aerobic oxidation catalysis performed by a microporous Co-BTT (BTT3â^' = 1,3,5-benzenetristetrazolate) framework having coordinatively unsaturated sites. Journal of Materials Chemistry, 2012, 22, 10200.	6.7	75
54	Bipyridine-based UiO-67 as novel filler in mixed-matrix membranes for CO2-selective gas separation. Journal of Membrane Science, 2019, 576, 78-87.	8.2	75

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55	Strategies for Enhancing the Catalytic Performance of Metalâ€“Organic Frameworks in the Fixation of CO₂ into Cyclic Carbonates. ChemSusChem, 2017, 10, 1283-1291.	6.8	72
56	AN EVALUATION OF ANALYTICAL AND INTERPRETATIVE METHODOLOGIES FOR THE EXTRACTION AND IDENTIFICATION OF LIPIDS ASSOCIATED WITH POTTERY SHERDS FROM THE SITE OF SAGALASSOS, TURKEY*. Archaeometry, 2007, 49, 729-747.	1.3	71
57	Bimetallic Zn and Hf on Silica Catalysts for the Conversion of Ethanol to 1,3-Butadiene. ACS Catalysis, 2015, 5, 3393-3397.	11.2	71
58	Efficient and rapid transformation of high silica CHA zeolite from FAU zeolite in the absence of water. Journal of Materials Chemistry A, 2017, 5, 9076-9080.	10.3	71
59	Highly stable and porous porphyrin-based zirconium and hafnium phosphonates â€“ electron crystallography as an important tool for structure elucidation. Chemical Science, 2018, 9, 5467-5478.	7.4	70
60	Schiff Base Complexes with Five-Coordinate Cobalt as Dioxygen Activating Sites in Zeolites. Angewandte Chemie International Edition in English, 1994, 33, 431-433.	4.4	69
61	Znâ€“Co Double Metal Cyanides as Heterogeneous Catalysts for Hydroamination: A Structureâ€“Activity Relationship. ACS Catalysis, 2013, 3, 597-607.	11.2	67
62	Chemoselective reduction of Î±,Î²-unsaturated carbonyl compounds with UiO-66 materials. Journal of Catalysis, 2016, 340, 136-143.	6.2	66
63	Vapour-phase deposition of oriented copper dicarboxylate metalâ€“organic framework thin films. Chemical Communications, 2019, 55, 10056-10059.	4.1	64
64	Rare-earth ion exchanged Cu-SSZ-13 zeolite from organotemplate-free synthesis with enhanced hydrothermal stability in NH₃-SCR of NO_x. Catalysis Science and Technology, 2019, 9, 241-251.	4.1	64
65	Boosting the Catalytic Performance of Metalâ€“Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. Angewandte Chemie - International Edition, 2017, 56, 13302-13306.	13.8	63
66	Lignin solubility in nonâ€imidazolium ionic liquids. Journal of Chemical Technology and Biotechnology, 2015, 90, 1821-1826.	3.2	62
67	Solvent-Free Powder Synthesis and MOF-CVD Thin Films of the Large-Pore Metalâ€“Organic Framework MAF-6. Chemistry of Materials, 2020, 32, 1784-1793.	6.7	62
68	Gold Redox Catalysis for Selective Oxidation of Methane to Methanol. Angewandte Chemie - International Edition, 2005, 44, 30-32.	13.8	60
69	Detecting Molecular Rotational Dynamics Complementing the Low-Frequency Terahertz Vibrations in a Zirconium-Based Metal-Organic Framework. Physical Review Letters, 2017, 118, 255502.	7.8	60
70	A precursor method for the synthesis of new Ce(<scp>iv</scp>) MOFs with reactive tetracarboxylate linkers. Chemical Communications, 2018, 54, 876-879.	4.1	60
71	Proteinâ€Rich Biomass Waste as a Resource for Future Biorefineries: State of the Art, Challenges, and Opportunities. ChemSusChem, 2019, 12, 1272-1303.	6.8	60
72	Highly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Beta. Angewandte Chemie - International Edition, 2020, 59, 14086-14090.	13.8	60

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73	Agronomic Effectiveness of Granulated and Powdered P-Exchanged Mgâ€“Al LDH Relative to Struvite and MAP. Journal of Agricultural and Food Chemistry, 2017, 65, 6736-6744.	5.2	59
74	A new catalyst platform: zeolite Beta from template-free synthesis. Catalysis Science and Technology, 2013, 3, 2580.	4.1	58
75	Base catalytic activity of alkaline earth MOFs: a (micro)spectroscopic study of active site formation by the controlled transformation of structural anions. Chemical Science, 2014, 5, 4517-4524.	7.4	58
76	Support influences in the Pd-catalyzed racemization and dynamic kinetic resolution of chiral benzylic amines. Applied Catalysis A: General, 2009, 368, 9-16.	4.3	55
77	Mechanical properties of electrochemically synthesised metalâ€“organic framework thin films. Journal of Materials Chemistry C, 2013, 1, 7716.	5.5	53
78	Species identification of archaeological dung remains: A critical review of potential methods. Environmental Archaeology, 2013, 18, 5-17.	1.2	53
79	Endâ€ofâ€Life Treatment of Poly(Vinyl Chloride) and Chlorinated Polyethylene by Dehydrochlorination in Ionic Liquids. ChemSusChem, 2014, 7, 610-617.	6.8	52
80	Zr-Based MOF-808 as Meerweinâ€“Ponndorfâ€“Verley Reduction Catalyst for Challenging Carbonyl Compounds. Catalysts, 2016, 6, 104.	3.5	52
81	Transformation synthesis of aluminosilicate SSZ-39 zeolite from ZSM-5 and beta zeolite. Journal of Materials Chemistry A, 2019, 7, 4420-4425.	10.3	52
82	Improved ruthenium catalysts for the modified Friedlaender quinoline synthesis. New Journal of Chemistry, 2007, 31, 1572.	2.8	51
83	Pd-catalyzed decarboxylation of glutamic acid and pyroglutamic acid to bio-based 2-pyrrolidone. Green Chemistry, 2015, 17, 2263-2270.	9.0	50
84	Three Series of Sulfoâ€Functionalized Mixedâ€Linker CAUâ€10 Analogues: Sorption Properties, Proton Conductivity, and Catalytic Activity. Chemistry - A European Journal, 2015, 21, 12517-12524.	3.3	49
85	Adsorptive desulfurization with CPO-27/MOF-74: an experimental and computational investigation. Physical Chemistry Chemical Physics, 2015, 17, 10759-10766.	2.8	47
86	Heterogeneous Catalysts for Racemization and Dynamic Kinetic Resolution of Amines and Secondary Alcohols. Topics in Catalysis, 2010, 53, 931-941.	2.8	46
87	Carbon dioxide as a reversible amine-protecting agent in selective Michael additions and acylations. Green Chemistry, 2013, 15, 1550.	9.0	46
88	Delayed electronâ€“hole pair recombination in iron(<scp>iii</scp>)-oxo metalâ€“organic frameworks. Physical Chemistry Chemical Physics, 2014, 16, 5044-5047.	2.8	46
89	The Remarkable Amphoteric Nature of Defective UiOâ€66 in Catalytic Reactions. ChemCatChem, 2017, 9, 2203-2210.	3.7	46
90	Alcohol amination with heterogeneous ruthenium hydroxyapatite catalysts. Applied Catalysis A: General, 2014, 469, 191-197.	4.3	45

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91	S,O-Functionalized Metalâ€“Organic Frameworks as Heterogeneous Single-Site Catalysts for the Oxidative Alkenylation of Arenes via Câ€“H activation. ACS Catalysis, 2020, 10, 5077-5085.	11.2	45
92	Cellulose conversion into alkylglycosides in the ionic liquid 1-butyl-3-methylimidazolium chloride. Green Chemistry, 2010, 12, 1790.	9.0	44
93	First examples of aliphatic zirconium MOFs and the influence of inorganic anions on their crystal structures. CrystEngComm, 2015, 17, 331-337.	2.6	44
94	Guanidinium nonaflate as a solid-state proton conductor. Journal of Materials Chemistry A, 2016, 4, 12241-12252.	10.3	43
95	Smart Metalâ€“Organic Framework Coatings: Triggered Antibiofilm Compound Release. ACS Applied Materials & Interfaces, 2017, 9, 4440-4449.	8.0	43
96	Active Role of Methanol in Post-Synthetic Linker Exchange in the Metalâ€“Organic Framework UiO-66. Chemistry of Materials, 2019, 31, 1359-1369.	6.7	43
97	Nanozymatic Activity of UiO-66 Metalâ€“Organic Frameworks: Tuning the Nanopore Environment Enhances Hydrolytic Activity toward Peptide Bonds. ACS Applied Nano Materials, 2020, 3, 8931-8938.	5.0	42
98	Enhancement of low-temperature activity over Cu-exchanged zeolite beta from organotemplate-free synthesis for the selective catalytic reduction of NOx with NH3 in exhaust gas streams. Microporous and Mesoporous Materials, 2014, 200, 304-310.	4.4	41
99	A Breathing Zirconium Metalâ€“Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. Chemistry - A European Journal, 2016, 22, 3264-3267.	3.3	41
100	Ru-Catalyzed Hydrogenationâ€“Decarbonylation of Amino Acids to Bio-based Primary Amines. ACS Sustainable Chemistry and Engineering, 2017, 5, 3290-3295.	6.7	41
101	Bulk-to-Surface Proton-Coupled Electron Transfer Reactivity of the Metalâ€“Organic Framework MIL-125. Journal of the American Chemical Society, 2018, 140, 16184-16189.	13.7	41
102	Shape-selective Câ€“H activation of aromatics to biarylic compounds using molecular palladium in zeolites. Nature Catalysis, 2020, 3, 1002-1009.	34.4	41
103	Parts per Million Detection of Alcohol Vapors via Metal Organic Framework Functionalized Surface Plasmon Resonance Sensors. Analytical Chemistry, 2017, 89, 4480-4487.	6.5	40
104	Direct liquid-phase phenol-to-aniline amination using Pd/C. Catalysis Science and Technology, 2018, 8, 2519-2523.	4.1	40
105	Sacrificial Anode-Free Electrosynthesis of Î±-Hydroxy Acids via Electrocatalytic Coupling of Carbon Dioxide to Aromatic Alcohols. ACS Sustainable Chemistry and Engineering, 2019, 7, 15860-15864.	6.7	40
106	Recycling of Flexible Polyurethane Foam by Splitâ€Phase Alcoholysis: Identification of Additives and Alcoholyzing Agents to Reach Higher Efficiencies. ChemSusChem, 2020, 13, 3835-3843.	6.8	40
107	Porosimetry for Thin Films of Metalâ€“Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorptionâ€Based Methods. Advanced Materials, 2021, 33, e2006993.	21.0	40
108	The use of ultrastable Y zeolites in the Ferrier rearrangement of acetylated and benzylated glycals. Green Chemistry, 2010, 12, 828.	9.0	39

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109	Ni-Catalyzed reductive amination of phenols with ammonia or amines into cyclohexylamines. Green Chemistry, 2020, 22, 1884-1893.	9.0	38
110	Interplay between structural parameters and reactivity of Zr₆-based MOFs as artificial proteases. Chemical Science, 2020, 11, 6662-6669.	7.4	38
111	Zrâ€Metalâ€Organic Framework Catalysts for Oxidative Desulfurization and Their Improvement by Postsynthetic Ligand Exchange. Small Methods, 2018, 2, 1800203.	8.6	37
112	A Titanium(IV)â€Based Metalâ€“Organic Framework Featuring Defectâ€Rich Tiâ€O Sheets as an Oxidative Desulfurization Catalyst. Angewandte Chemie, 2019, 131, 9258-9263.	2.0	37
113	Heterogeneous Enzyme Mimics Based on Zeolites and Layered Hydroxides. Cattech, 2002, 6, 14-29.	2.2	36
114	Lewis acid double metal cyanide catalysts for hydroamination of phenylacetylene. Chemical Communications, 2011, 47, 4114.	4.1	36
115	Isolation of Renewable Phenolics by Adsorption on Ultrastable Hydrophobic MILâ€140 Metalâ€“Organic Frameworks. ChemSusChem, 2015, 8, 3159-3166.	6.8	36
116	Shape selective properties of the Al-fumarate metalâ€“organic framework in the adsorption and separation of n-alkanes, iso-alkanes, cyclo-alkanes and aromatic hydrocarbons. Physical Chemistry Chemical Physics, 2016, 18, 3294-3301.	2.8	36
117	Increasing the availability of active sites in Zn-Co double metal cyanides by dispersion onto a SiO2 support. Journal of Catalysis, 2017, 354, 92-99.	6.2	36
118	Development of a post-synthetic method for tuning the Al content of OSDA-free Beta as a catalyst for conversion of methanol to olefins. Catalysis Science and Technology, 2016, 6, 713-721.	4.1	35
119	Adsorption and Separation of Aromatic Amino Acids from Aqueous Solutions Using Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2017, 9, 30064-30073.	8.0	35
120	Stabilizing Effect of Bulky Î²-Diketones on Homogeneous Mo Catalysts for Deoxydehydration. ACS Sustainable Chemistry and Engineering, 2018, 6, 12197-12204.	6.7	35
121	Modulator-Mediated Functionalization of MOF-808 as a Platform Tool to Create High-Performance Mixed-Matrix Membranes. ACS Applied Materials & Interfaces, 2019, 11, 44792-44801.	8.0	35
122	Recent advances in the preparation of zeolites for the selective catalytic reduction of NOx in diesel engines. Reaction Chemistry and Engineering, 2019, 4, 975-985.	3.7	35
123	Molecular evidence for the mixing of <scp>M</scp>eat, <scp>F</scp>ish and <scp>V</scp>egetables in <scp>A</scp>ngloâ€Saxon <scp>S</scp>axon coarseware from <scp>H</scp>amwic, <scp>UK</scp>. Archaeometry, 2013, 55, 1150-1174.	1.3	34
124	Unravelling Why and to What Extent the Topology of Similar Ceâ€Based MOFs Conditions their Photodynamic: Relevance to Photocatalysis and Photonics. Advanced Science, 2019, 6, 1901020.	11.2	34
125	Metal-Organic Framework Derived Metal Oxide Clusters in Porous Aluminosilicates: A Catalyst Design for the Synthesis of Bioactive aza-Heterocycles. ACS Catalysis, 2019, 9, 44-48.	11.2	34
126	Bioâ€Based Nitriles from the Heterogeneously Catalyzed Oxidative Decarboxylation of Amino Acids. ChemSusChem, 2015, 8, 345-352.	6.8	32

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127	Electrochemical dicarboxylation of conjugated fatty acids as an efficient valorization of carbon dioxide. RSC Advances, 2013, 3, 4634.	3.6	31
128	Ruthenium-catalyzed aerobic oxidative decarboxylation of amino acids: a green, zero-waste route to biobased nitriles. Chemical Communications, 2015, 51, 6528-6531.	4.1	31
129	Expanding the Variety of Zirconiumâ€based Inorganic Building Units for Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 10995-11000.	13.8	31
130	Pathway to Vinyl Chloride Production via Dehydrochlorination of 1,2-Dichloroethane in Ionic Liquid Media. ACS Catalysis, 2015, 5, 4043-4047.	11.2	30
131	Selective Oneâ€Pot Twoâ€Step Câ^'C Bond Formation using Metalâ€“Organic Frameworks with Mild Basicity as Heterogeneous Catalysts. ChemCatChem, 2017, 9, 4019-4023.	3.7	30
132	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. Journal of the American Chemical Society, 2019, 141, 18318-18324.	13.7	30
133	Fe-doped Beta zeolite from organotemplate-free synthesis for NH₃-SCR of NO_x. Catalysis Science and Technology, 2016, 6, 6581-6592.	4.1	29
134	Geminal Coordinatively Unsaturated Sites on MOFâ€808 for the Selective Uptake of Phenolics from a Real Bioâ€Oil Mixture. ChemSusChem, 2019, 12, 1256-1266.	6.8	29
135	Selective catalytic reduction of NO by cerium-based metalâ€“organic frameworks. Catalysis Science and Technology, 2020, 10, 337-341.	4.1	29
136	C2â€“H Arylation of Indoles Catalyzed by Palladiumâ€Containing Metalâ€Organicâ€Framework in Î³â€Valerolactone. ChemSusChem, 2020, 13, 2786-2791.	6.8	29
137	Miniaturized Layer-by-Layer Deposition of Metalâ€“Organic Framework Coatings through Digital Microfluidics. Chemistry of Materials, 2013, 25, 1021-1023.	6.7	28
138	Highly selective one-step dehydration, decarboxylation and hydrogenation of citric acid to methylsuccinic acid. Chemical Science, 2017, 8, 2616-2620.	7.4	28
139	Ag nanoparticles on mixed Al2O3â€“Ga2O3 supports as catalysts for the N-alkylation of amines with alcohols. Applied Catalysis A: General, 2014, 469, 373-379.	4.3	27
140	A new class of solid Lewis acid catalysts based on interlayer expansion of layered silicates of the RUB-36 type with heteroatoms. Journal of Materials Chemistry A, 2014, 2, 9709-9717.	10.3	27
141	Counteranion effects on the catalytic activity of copper salts immobilized on the 2,2â€²-bipyridine-functionalized metalâ€“organic framework MOF-253. Catalysis Today, 2015, 246, 55-59.	4.4	27
142	PdPb-Catalyzed Decarboxylation of Proline to Pyrrolidine: Highly Selective Formation of a Biobased Amine in Water. ACS Catalysis, 2016, 6, 7303-7310.	11.2	27
143	Tetrabutylphosphonium Bromide Catalyzed Dehydration of Diols to Dienes and Its Application in the Biobased Production of Butadiene. ACS Catalysis, 2017, 7, 5802-5809.	11.2	27
144	Decarboxylation of a Wide Range of Amino Acids with Electrogenerated Hypobromite. European Journal of Organic Chemistry, 2014, 2014, 6649-6652.	2.4	26

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145	The Rhodium Catalysed Direct Conversion of Phenols to Primary Cyclohexylamines. ChemCatChem, 2018, 10, 3689-3693.	3.7	26
146	Correlating MOF-808 parameters with mixed-matrix membrane (MMM) CO₂ permeation for a more rational MMM development. Journal of Materials Chemistry A, 2021, 9, 12782-12796.	10.3	26
147	Holy Smoke in Medieval Funerary Rites: Chemical Fingerprints of Frankincense in Southern Belgian Incense Burners. PLoS ONE, 2014, 9, e113142.	2.5	26
148	Bimetallic Ce/Zr UiO-66 Metalâ€“Organic Framework Nanostructures as Peptidase and Oxidase Nanozymes. ACS Applied Nano Materials, 2021, 4, 5748-5757.	5.0	25
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