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	Understanding the Effects of Binders in Gas Sorption and Acidity of Aluminium Fumarate Extrudates. Chemistry - A European Journal, 2022, 28, .	3.3	6
2	Metalâ€“biomolecule frameworks (BioMOFs): a novel approach for â€œgreenâ€•optoelectronic applications. Chemical Communications, 2022, 58, 677-680.	4.1	7
3	Alkylation of isobutane with butenes using OSDA-free zeolite beta. Journal of Catalysis, 2022, 406, 206-212.	6.2	6
4	Catalytic upcycling of PVC waste-derived phthalate esters into safe, hydrogenated plasticizers. Green Chemistry, 2022, 24, 754-766.	9.0	14
5	Ammonolytic Hydrogenation of Secondary Amides: An Efficient Method for the Recycling of Long-Chain Polyamides. ACS Sustainable Chemistry and Engineering, 2022, 10, 3048-3056.	6.7	12
6	Sustainable formation of tricarballylic acid from citric acid over highly stable Pd/Nb2O5Â·nH2O catalysts. Journal of Catalysis, 2022, 408, 88-97.	6.2	6
7	Ru-Bipyridine Entrapped in the Supercages of EMC-1 Faujasite as Catalyst for the Trifluoromethylation of Arenes. ACS Applied Materials & Interfaces, 2022, 14, 971-977.	8.0	4
8	Adsorptive separation using self-assembly on graphite: from nanoscale to bulk processes. Chemical Science, 2022, 13, 9035-9046.	7.4	1
9	From crude industrial waste glycerol to biopropene via Ru-mediated hydrodeoxygenation in ionic liquids. Chemical Communications, 2021, 57, 6324-6327.	4.1	5
10	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
11	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
12	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
13	Porosimetry: Porosimetry for Thin Films of Metalâ€“Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorptionâ€Based Methods (Adv. Mater. 17/2021). Advanced Materials, 2021, 33, 2170133.	21.0	3
14	Reply to Comment on â€œHighly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Betaâ€• Angewandte Chemie - International Edition, 2021, 60, 13710-13711.	13.8	0
15	Reply to Comment on â€œHighly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Betaâ€• Angewandte Chemie, 2021, 133, 13826-13827.	2.0	0
16	Gold and Silver-Catalyzed Reductive Amination of Aromatic Carboxylic Acids to Benzylic Amines. ACS Catalysis, 2021, 11, 7672-7684.	11.2	18
17	Direct Electrocatalytic Nâ€“H Aziridination of Aromatic Alkenes Using Ammonia. ACS Sustainable Chemistry and Engineering, 2021, 9, 11596-11603.	6.7	12
18	Revisiting the Extended X-ray Absorption Fine Structure Fitting Procedure through a Machine Learning-Based Approach. Journal of Physical Chemistry A, 2021, 125, 7080-7091.	2.5	15

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19	Electro-oxidative C(sp2)â€“H/Oâ€“H cross-dehydrogenative coupling of phenols and tertiary anilines for diaryl ether formation. Catalysis Science and Technology, 2021, 11, 3925-3930.	4.1	3
20	Ligand-Controlled Selectivity in the Pd-Catalyzed Câ€“H/Câ€“H Cross-Coupling of Indoles with Molecular Oxygen. ACS Catalysis, 2021, 11, 2435-2444.	11.2	19
21	Speciation of Ru Molecular Complexes in a Homogeneous Catalytic System: Fingerprint XANES Analysis Guided by Machine Learning. Journal of Physical Chemistry C, 2021, 125, 27844-27852.	3.1	9
22	The Dual Effect of the Acetate Ligand on the Mechanism of the Pdâ€Catalyzed Câˆ’H/Câˆ’H Coupling of Benzene. ChemCatChem, 2020, 12, 90-94.	3.7	5
23	Novel heterogeneous ruthenium racemization catalyst for dynamic kinetic resolution of chiral aliphatic amines. Green Chemistry, 2020, 22, 85-93.	9.0	9
24	Selective catalytic reduction of NO by cerium-based metalâ€“organic frameworks. Catalysis Science and Technology, 2020, 10, 337-341.	4.1	29
25	Solventâ€Free Powder Synthesis and Thin Film Chemical Vapor Deposition of a Zinc Bipyridylâ€Triazolate Framework. European Journal of Inorganic Chemistry, 2020, 2020, 71-74.	2.0	15
26	Selective defunctionalization of citric acid to tricarballylic acid as a precursor for the production of high-value plasticizers. Green Chemistry, 2020, 22, 7812-7822.	9.0	10
27	Heterogeneous Single-Site Catalysts for Câ€“H Activation Reactions: Pd(II)-Loaded S,O-Functionalized Metal Oxide-Bisphosphonates. ACS Applied Materials & Interfaces, 2020, 12, 47457-47466.	8.0	12
28	Thermal defect engineering of precious group metalâ€“organic frameworks: impact on the catalytic cyclopropanation reaction. Catalysis Science and Technology, 2020, 10, 8077-8085.	4.1	4
29	Shape-selective Câ€“H activation of aromatics to biarylic compounds using molecular palladium in zeolites. Nature Catalysis, 2020, 3, 1002-1009.	34.4	41
30	Coplanar versus Noncoplanar Carboxyl Groups: The Influence of Sterically Enforced Noncoplanarity on the 2D Mixing Behavior of Benzene Tricarboxylic Acids. Journal of Physical Chemistry C, 2020, 124, 24874-24882.	3.1	9
31	Innentitelbild: Highly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Beta (Angew. Chem. 33/2020). Angewandte Chemie, 2020, 132, 13770-13770.	2.0	1
32	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
33	Highly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Beta. Angewandte Chemie - International Edition, 2020, 59, 14086-14090.	13.8	60
34	Highly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Beta. Angewandte Chemie, 2020, 132, 14190-14194.	2.0	21
35	Aqueous Flow Reactor and Vapourâ€Assisted Synthesis of Aluminium Dicarboxylate Metalâ€“Organic Frameworks with Tuneable Water Sorption Properties. Chemistry - A European Journal, 2020, 26, 10841-10848.	3.3	13
36	Xâ€Rayâ€Induced Growth Dynamics of Luminescent Silver Clusters in Zeolites. Small, 2020, 16, e2002063.	10.0	14

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37	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. Angewandte Chemie - International Edition, 2020, 59, 15649-15655.	13.8	22
38	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
39	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. Angewandte Chemie, 2020, 132, 15779-15785.	2.0	1
40	Cu-Exchanged CHA-Type Zeolite from Organic Template-Free Synthesis: An Effective Catalyst for NH₃-SCR. Industrial & Engineering Chemistry Research, 2020, 59, 7375-7382.	3.7	22
41	One-pot reductive amination of carboxylic acids: a sustainable method for primary amine synthesis. Green Chemistry, 2020, 22, 5105-5114.	9.0	23
42	Olefins from Biobased Sugar Alcohols via Selective, Ru-Mediated Reaction in Catalytic Phosphonium Ionic Liquids. ACS Catalysis, 2020, 10, 9401-9409.	11.2	17
43	Cooperative acidâ€“base bifunctional ordered porous solids in sequential multi-step reactions: MOF vs. mesoporous silica. Catalysis Science and Technology, 2020, 10, 1796-1802.	4.1	11
44	Ni-Catalyzed reductive amination of phenols with ammonia or amines into cyclohexylamines. Green Chemistry, 2020, 22, 1884-1893.	9.0	38
45	C2â€“H Arylation of Indoles Catalyzed by Palladiumâ€Containing Metalâ€Organicâ€Framework in Î³â€Valerolactone. ChemSusChem, 2020, 13, 2786-2791.	6.8	29
46	Cu^{II}/H-USY as a regenerable bifunctional catalyst for the additive-free Câ€“H amination of azoles. Catalysis Science and Technology, 2020, 10, 940-943.	4.1	6
47	Regioselective Câ€“H hydroxylation of n-alkanes using Shilov-type Pt catalysis in perfluorinated micro-emulsions. Catalysis Science and Technology, 2020, 10, 1264-1272.	4.1	8
48	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
49	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
50	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
51	Unexpected linker-dependent BrÃ¸nsted acidity in the (Zr)UiO-66 metal organic framework and application to biomass valorization. Catalysis Science and Technology, 2020, 10, 4002-4009.	4.1	25
52	Interplay between structural parameters and reactivity of Zr₆-based MOFs as artificial proteases. Chemical Science, 2020, 11, 6662-6669.	7.4	38
53	Sustainable hydrogenation of aliphatic acyclic primary amides to primary amines with recyclable heterogeneous rutheniumâ€“tungsten catalysts. Green Chemistry, 2019, 21, 5326-5335.	9.0	21
54	Vapour-phase deposition of oriented copper dicarboxylate metalâ€“organic framework thin films. Chemical Communications, 2019, 55, 10056-10059.	4.1	64

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55	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
56	Organocatalytic Decarboxylation of Amino Acids as a Route to Bioâ€based Amines and Amides. ChemCatChem, 2019, 11, 4297-4306.	3.7	21
57	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
58	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
59	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
60	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
61	Sodium-coupled electron transfer reactivity of metalâ€“organic frameworks containing titanium clusters: the importance of cations in redox chemistry. Chemical Science, 2019, 10, 1322-1331.	7.4	20
62	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
63	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
64	Pt^{II}â€Catalyzed Hydroxylation of Terminal Aliphatic C(sp³)â^'H Bonds with Molecular Oxygen. Chemistry - A European Journal, 2019, 25, 10724-10734.	3.3	14
65	Expanding the Variety of Zirconiumâ€based Inorganic Building Units for Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 10995-11000.	13.8	31
66	The first water-based synthesis of Ce(iv)-MOFs with saturated chiral and achiral C4-dicarboxylate linkers. Dalton Transactions, 2019, 48, 8433-8441.	3.3	24
67	Expanding the Variety of Zirconiumâ€based Inorganic Building Units for Metalâ€“Organic Frameworks. Angewandte Chemie, 2019, 131, 11111-11116.	2.0	13
68	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
69	Phenolics isolation from bio-oil using the metalâ€“organic framework MIL-53(Al) as a highly selective adsorbent. Chemical Communications, 2019, 55, 6245-6248.	4.1	7
70	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
71	Metal ion exchange in Prussian blue analogues: Cu(<scp>ii</scp>)-exchanged Znâ€“Co PBAs as highly selective catalysts for A³ coupling. Dalton Transactions, 2019, 48, 3946-3954.	3.3	17
72	Layered Zn₂[Co(CN)₆](CH₃COO) double metal cyanide: a two-dimensional DMC phase with excellent catalytic performance. Chemical Science, 2019, 10, 4868-4875.	7.4	24

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73	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
74	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
75	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
76	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
77	The impact of the nature of amine reactants in the palladium catalyzed conversion of phenol to N-substituted anilines. Journal of Catalysis, 2019, 371, 207-213.	6.2	18
78	Double metal cyanides as heterogeneous Lewis acid catalysts for nitrile synthesisviaacid-nitrile exchange reactions. Chemical Communications, 2019, 55, 12984-12987.	4.1	8
79	Surfactant-templated zeolites for the production of active pharmaceutical intermediates. Chemical Communications, 2019, 55, 12869-12872.	4.1	14
80	Network topology and cavity confinement-controlled diastereoselectivity in cyclopropanation reactions catalyzed by porphyrin-based MOFs. Catalysis Science and Technology, 2019, 9, 6452-6459.	4.1	22
81	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
82	Solid-state speciation of interlayer anions in layered double hydroxides. Journal of Colloid and Interface Science, 2019, 537, 151-162.	9.4	17
83	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
84	Synthesis and characterisation of alkyd resins with glutamic acid-based monomers. RSC Advances, 2018, 8, 8220-8227.	3.6	11
85	The isotopic exchangeability of phosphate in Mg-Al layered double hydroxides. Journal of Colloid and Interface Science, 2018, 520, 25-32.	9.4	21
86	Ionic liquids vs. microporous solids as reusable reaction media for the catalytic Câ€“H functionalization of indoles with alcohols. Green Chemistry, 2018, 20, 2481-2485.	9.0	24
87	Superactivity of MOF-808 toward Peptide Bond Hydrolysis. Journal of the American Chemical Society, 2018, 140, 6325-6335.	13.7	120
88	Tunable Prussian blue analogues for the selective synthesis of propargylamines through A³ coupling. Catalysis Science and Technology, 2018, 8, 2061-2065.	4.1	23
89	Direct liquid-phase phenol-to-aniline amination using Pd/C. Catalysis Science and Technology, 2018, 8, 2519-2523.	4.1	40
90	Conversion of lactide to acrylic acid by a phosphonium ionic liquid and acid cocatalyst. Catalysis Science and Technology, 2018, 8, 1468-1474.	4.1	17

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91	Unravelling the Redoxâ€catalytic Behavior of Ce⁴⁺ Metalâ€“Organic Frameworks by Xâ€ray Absorption Spectroscopy. ChemPhysChem, 2018, 19, 373-378.	2.1	89
92	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
93	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
94	Evidence for regioselective Pt(II)-mediated hydroxylation of long linear alkanes in acetic acid. Journal of Catalysis, 2018, 368, 345-353.	6.2	1
95	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
96	Rh-Catalyzed Hydrogenation of Amino Acids to Biobased Amino Alcohols: Tackling Challenging Substrates and Application to Protein Hydrolysates. ACS Sustainable Chemistry and Engineering, 2018, 6, 9218-9228.	6.7	24
97	Stabilizing Effect of Bulky Î²-Diketones on Homogeneous Mo Catalysts for Deoxydehydration. ACS Sustainable Chemistry and Engineering, 2018, 6, 12197-12204.	6.7	35
98	The Rhodium Catalysed Direct Conversion of Phenols to Primary Cyclohexylamines. ChemCatChem, 2018, 10, 3689-3693.	3.7	26
99	Zrâ€Metalâ€Organic Framework Catalysts for Oxidative Desulfurization and Their Improvement by Postsynthetic Ligand Exchange. Small Methods, 2018, 2, 1800203.	8.6	37
100	MOFs Extend the Lifetime of Pd(II) Catalyst for Room Temperature Alkenylation of Enamineâ€Like Arenes. Advanced Synthesis and Catalysis, 2018, 360, 3872-3876.	4.3	11
101	Pd(II)â€“Ni(II) Pyrazolate Framework as Active and Recyclable Catalyst for the Hydroamination of Terminal Alkynes. Topics in Catalysis, 2018, 61, 1414-1423.	2.8	20
102	Smart Metalâ€“Organic Framework Coatings: Triggered Antibiofilm Compound Release. ACS Applied Materials & Interfaces, 2017, 9, 4440-4449.	8.0	43
103	Highly selective one-step dehydration, decarboxylation and hydrogenation of citric acid to methylsuccinic acid. Chemical Science, 2017, 8, 2616-2620.	7.4	28
104	Ru-Catalyzed Hydrogenationâ€“Decarbonylation of Amino Acids to Bio-based Primary Amines. ACS Sustainable Chemistry and Engineering, 2017, 5, 3290-3295.	6.7	41
105	An in situ investigation of the water-induced phase transformation of UTSA-74 to MOF-74(Zn). CrystEngComm, 2017, 19, 4152-4156.	2.6	20
106	The Remarkable Amphoteric Nature of Defective UiOâ€66 in Catalytic Reactions. ChemCatChem, 2017, 9, 2203-2210.	3.7	46
107	Tuning luminescent properties of a metal organic framework by insertion of metal complexes. Supramolecular Chemistry, 2017, 29, 758-767.	1.2	8
108	Metal-catalyzed reductive deamination of glutamic acid to bio-based dimethyl glutarate and methylamines. Green Chemistry, 2017, 19, 1866-1876.	9.0	19

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109	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
110	Improved resolution and simplification of the spin-diffusion-based NMR method for the structural analysis of mixed-linker MOFs. Journal of Magnetic Resonance, 2017, 279, 22-28.	2.1	18
111	Adsorption and Reactive Desorption on Metalâ€“Organic Frameworks: A Direct Strategy for Lactic Acid Recovery. ChemSusChem, 2017, 10, 643-650.	6.8	17
112	Selective Oneâ€Pot Twoâ€Step Câˆ'C Bond Formation using Metalâ€“Organic Frameworks with Mild Basicity as Heterogeneous Catalysts. ChemCatChem, 2017, 9, 4019-4023.	3.7	30
113	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
114	Gel-based morphological design of zirconium metalâ€“organic frameworks. Chemical Science, 2017, 8, 3939-3948.	7.4	177
115	Controlled defunctionalisation of biobased organic acids. Chemical Communications, 2017, 53, 5682-5693.	4.1	14
116	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
117	Stepped water isotherm and breakthrough curves on aluminium fumarate metalâ€“organic framework: experimental and modelling study. Adsorption, 2017, 23, 185-192.	3.0	13
118	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
119	Adsorption and Selective Recovery of Citric Acid with Poly(4â€vinylpyridine). ChemSusChem, 2017, 10, 4864-4871.	6.8	9
120	Emergence of Nonlinear Optical Activity by Incorporation of a Linker Carrying the p-Nitroaniline Motif in MIL-53 Frameworks. Journal of Physical Chemistry C, 2017, 121, 25509-25519.	3.1	20
121	Stabilising Ni catalysts for the dehydrationâ€“decarboxylationâ€“hydrogenation of citric acid to methylsuccinic acid. Green Chemistry, 2017, 19, 4642-4650.	9.0	9
122	Boosting the Catalytic Performance of Metalâ€“Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. Angewandte Chemie, 2017, 129, 13487-13491.	2.0	9
123	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
124	Bio-based N-alkyl-2-pyrrolidones by Pd-catalyzed reductive N-alkylation and decarboxylation of glutamic acid. Green Chemistry, 2017, 19, 4919-4929.	9.0	17
125	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
126	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

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127	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
128	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
129	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
130	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
131	Zr-Based MOF-808 as Meerweinâ€“Ponndorfâ€“Verley Reduction Catalyst for Challenging Carbonyl Compounds. Catalysts, 2016, 6, 104.	3.5	52
132	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
133	Silver-induced reconstruction of an adeninate-based metalâ€“organic framework for encapsulation of luminescent adenine-stabilized silver clusters. Journal of Materials Chemistry C, 2016, 4, 4259-4268.	5.5	22
134	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
135	Waste PET (bottles) as a resource or substrate for MOF synthesis. Journal of Materials Chemistry A, 2016, 4, 9519-9525.	10.3	100
136	Biobased Ionic Liquids: Solvents for a Green Processing Industry?. ACS Sustainable Chemistry and Engineering, 2016, 4, 2917-2931.	6.7	195
137	Separation properties of the MIL-125(Ti) Metal-Organic Framework in high-performance liquid chromatography revealing cis/trans selectivity. Journal of Chromatography A, 2016, 1469, 68-76.	3.7	22
138	Metal-Catecholate Frameworks as Solid Basic Catalysts. Topics in Catalysis, 2016, 59, 1757-1764.	2.8	6
139	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
140	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
141	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
142	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
143	Guanidinium nonaflate as a solid-state proton conductor. Journal of Materials Chemistry A, 2016, 4, 12241-12252.	10.3	43
144	Flavor Activity of Sesquiterpene Oxidation Products, Formed upon Lab-Scale Boiling of a Hop Essential Oilâ€“Derived Sesquiterpene Hydrocarbon Fraction (cv. Saaz). Journal of the American Society of Brewing Chemists, 2016, 74, 65-76.	1.1	14

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145	Chemoselective reduction of Î±,Î²-unsaturated carbonyl compounds with UiO-66 materials. Journal of Catalysis, 2016, 340, 136-143.	6.2	66
146	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. Nature Materials, 2016, 15, 1017-1022.	27.5	153
147	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
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