Norbert Stock

List of Publications by Year
in descending order

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197 papers	15,959 citations	19608 61 h-index	18075 120 g-index
206 all docs	206 docs citations	206 times ranked	12946 citing authors

#	Article	IF	Citations
1	Synthesis of Metal-Organic Frameworks (MOFs): Routes to Various MOF Topologies, Morphologies, and Composites. Chemical Reviews, 2012, 112, 933-969.	23.0	3,923
2	High-Throughput Assisted Rationalization of the Formation of Metal Organic Frameworks in the Iron(III) Aminoterephthalate Solvothermal System. Inorganic Chemistry, 2008, 47, 7568-7576.	1.9	480
3	How Linkerâ€™s Modification Controls Swelling Properties of Highly Flexible Iron(III) Dicarboxylates MIL-88. Journal of the American Chemical Society, 2011, 133, 17839-17847.	6.6	383
4	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. Chemical Communications, 2015, 51, 12578-12581.	2.2	377
5	Synthesis and Modification of a Functionalized 3D Open-Framework Structure with MIL-53 Topology. Inorganic Chemistry, 2009, 48, 3057-3064.	1.9	358
6	Structures, Sorption Characteristics, and Nonlinear Optical Properties of a New Series of Highly Stable Aluminum MOFs. Chemistry of Materials, 2013, 25, 17-26.	3.2	307
7	A High-Throughput Investigation of the Role of pH, Temperature, Concentration, and Time on the Synthesis of Hybrid Inorganic-Organic Materials. Angewandte Chemie - International Edition, 2005, 44, 7608-7611.	7.2	286
8	Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid. Chemical Communications, 2011, 47, 2838.	2.2	265
9	High-throughput screening of synthesis parameters in the formation of the metal-organic frameworks MOF-5 and HKUST-1. Microporous and Mesoporous Materials, 2009, 117, 111-117.	2.2	263
10	[Al₄(OH)₂(OCH₃)₄(H₂Nâ€bdc)₃]â‹…xâ€‰H<sub> A 12â€Connected Porous Metalâ€“Organic Framework with an Unprecedented Aluminumâ€Containing Brick. Angewandte Chemie - International Edition, 2009, 48, 5163-5166.	7.2	260
11	New Functionalized Flexible Al-MIL-53-X (X = -Cl, -Br, -CH₃, -NO₂,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Chemistry, 2011, 50, 9518-9526.	1.9	254
12	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780.	11.1	253
13	Giant Pores in a Chromium 2,6â€Naphthalenedicarboxylate Openâ€Framework Structure with MILâ€101 Topology. Angewandte Chemie - International Edition, 2009, 48, 3791-3794.	7.2	189
14	Direct growth of Cu3(BTC)2(H2O)3Â·xH2O thin films on modified QCM-gold electrodes â€“ Water sorption isotherms. Microporous and Mesoporous Materials, 2008, 114, 380-386.	2.2	181
15	Synthesis, Structure and Properties of Related MicroporousN,Nâ€˜-Piperazinebismethylenephosphonates of Aluminum and Titanium. Chemistry of Materials, 2006, 18, 1451-1457.	3.2	173
16	High-Throughput Synthesis of Phosphonate-Based Inorganicâ€“Organic Hybrid Compounds under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2004, 43, 749-752.	7.2	168
17	Water adsorption behaviour of CAU-10-H: a thorough investigation of its structureâ€“property relationships. Journal of Materials Chemistry A, 2016, 4, 11859-11869.	5.2	166
18	p-Xylene-Selective Metalâ€“Organic Frameworks: A Case of Topology-Directed Selectivity. Journal of the American Chemical Society, 2011, 133, 18526-18529.	6.6	159

#	Article	IF	Citations
19	Unprecedented Topological Complexity in a Metalâ€“Organic Framework Constructed from Simple Building Units. Journal of the American Chemical Society, 2016, 138, 1970-1976.	6.6	155
20	Automated Diffraction Tomography for the Structure Elucidation of Twinned, Subâ€micrometer Crystals of a Highly Porous, Catalytically Active Bismuth Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 10373-10376.	7.2	151
21	High-throughput investigations employing solvothermal syntheses. Microporous and Mesoporous Materials, 2010, 129, 287-295.	2.2	146
22	A metalâ€“organic framework for efficient water-based ultra-low-temperature-driven cooling. Nature Communications, 2019, 10, 3025.	5.8	145
23	High-Throughput Aided Synthesis of the Porous Metalâ^'Organic Framework-Type Aluminum Pyromellitate, MIL-121, with Extra Carboxylic Acid Functionalization. Inorganic Chemistry, 2010, 49, 9852-9862.	1.9	139
24	Tuning the stability of bimetallic Ce(<scp>iv</scp>)/Zr(<scp>iv</scp>)-based MOFs with UiO-66 and MOF-808 structures. Dalton Transactions, 2017, 46, 2425-2429.	1.6	139
25	Introducing a photo-switchable azo-functionality inside Cr-MIL-101-NH2 by covalent post-synthetic modification. Dalton Transactions, 2012, 41, 8690.	1.6	138
26	Synthesis and Characterization of New Ce(IV)-MOFs Exhibiting Various Framework Topologies. Crystal Growth and Design, 2017, 17, 1125-1131.	1.4	133
27	Scalable Green Synthesis and Fullâ€Scale Test of the Metalâ€“Organic Framework CAUâ€10â€H for Use in Adsorptionâ€Driven Chillers. Advanced Materials, 2018, 30, 1705869.	11.1	131
28	Metalâ€“organic frameworks as potential shock absorbers: the case of the highly flexible MIL-53(Al). Chemical Communications, 2014, 50, 9462-9464.	2.2	122
29	A Facile â€œGreenâ€•Route for Scalable Batch Production and Continuous Synthesis of Zirconium MOFs. European Journal of Inorganic Chemistry, 2016, 2016, 4490-4498.	1.0	117
30	Towards metalâ€“organic framework based field effect chemical sensors: UiO-66-NH₂ for nerve agent detection. Chemical Science, 2016, 7, 5827-5832.	3.7	108
31	Reversible Optical Writing and Data Storage in an Anthraceneâ€Loaded Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2019, 58, 2423-2427.	7.2	102
32	Formation and characterisation of Mn-MIL-100. CrystEngComm, 2013, 15, 544-550.	1.3	100
33	High-throughput investigation of metal carboxyarylphosphonate hybrid compounds. Journal of Materials Chemistry, 2005, 15, 1384.	6.7	92
34	Knoevenagel condensation reaction catalysed by Al-MOFs with CAU-1 and CAU-10-type structures. CrystEngComm, 2017, 19, 4187-4193.	1.3	92
35	Metalâ€“organic frameworks in Germany: From synthesis to function. Coordination Chemistry Reviews, 2019, 380, 378-418.	9.5	91
36	Unravelling the Redoxâ€catalytic Behavior of Ce⁴⁺ Metalâ€“Organic Frameworks by Xâ€ray Absorption Spectroscopy. ChemPhysChem, 2018, 19, 373-378.	1.0	89

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37	Enhancing the Water Stability of Alâ€MILâ€101â€NH₂ via Postsynthetic Modification. Chemistry - A European Journal, 2015, 21, 314-323.	1.7	87
38	Synthesis and Shaping Scale-up Study of Functionalized UiO-66 MOF for Ammonia Air Purification Filters. Industrial & Engineering Chemistry Research, 2018, 57, 8200-8208.	1.8	86
39	Highâ€Throughput and Timeâ€Resolved Energyâ€Dispersive Xâ€Ray Diffraction (EDXRD) Study of the Formation of CAUâ€1â€(OH)₂: Microwave and Conventional Heating. Chemistry - A European Journal, 2011, 17, 6462-6468.	1.7	84
40	Synthesis of M-UiO-66 (M = Zr, Ce or Hf) employing 2,5-pyridinedicarboxylic acid as a linker: defect chemistry, framework hydrophilisation and sorption properties. Dalton Transactions, 2018, 47, 1062-1070.	1.6	84
41	A new Al-MOF based on a unique column-shaped inorganic building unit exhibiting strongly hydrophilic sorption behaviour. Chemical Communications, 2012, 48, 9486.	2.2	81
42	Mixed-linker MOFs with CAU-10 structure: synthesis and gas sorption characteristics. Dalton Transactions, 2013, 42, 4840.	1.6	81
43	New Directions in Metal Phosphonate and Phosphinate Chemistry. Crystals, 2019, 9, 270.	1.0	81
44	Single-site metalâ€“organic framework catalysts for the oxidative coupling of arenes via Câ€“H/Câ€“H activation. Chemical Science, 2019, 10, 3616-3622.	3.7	77
45	High-Throughput Investigation and Characterization of Cobalt Carboxy Phosphonates. Inorganic Chemistry, 2005, 44, 5882-5889.	1.9	76
46	Synthesis and Characterization of the Open-Framework Barium Bisphosphonate [Ba3(O3PCH2NH2CH2PO3)2(H2O)4]Â·3H2O. Inorganic Chemistry, 2005, 44, 9464-9470.	1.9	76
47	CAU-3: A new family of porous MOFs with a novel Al-based brick: [Al2(OCH3)4(O2C-X-CO2)] (X = aryl). Dalton Transactions, 2012, 41, 4164.	1.6	76
48	Thermal post-synthetic modification of Al-MIL-53â€“COOH: systematic investigation of the decarboxylation and condensation reaction. CrystEngComm, 2012, 14, 4119.	1.3	76
49	Synthesis and structure of Zr(<scp>iv</scp>)- and Ce(<scp>iv</scp>)-based CAU-24 with 1,2,4,5-tetrakis(4-carboxyphenyl)benzene. Dalton Transactions, 2016, 45, 18822-18826.	1.6	76
50	The chemistry of Ce-based metalâ€“organic frameworks. Dalton Transactions, 2020, 49, 16551-16586.	1.6	76
51	Conformation-Controlled Sorption Properties and Breathing of the Aliphatic Al-MOF [Al(OH)(CDC)]. Inorganic Chemistry, 2014, 53, 4610-4620.	1.9	74
52	A Porous Cobalt Tetraphosphonate Metalâ€“Organic Framework: Accurate Structure and Guest Molecule Location Determined by Continuousâ€Rotation Electron Diffraction. Chemistry - A European Journal, 2018, 24, 17429-17433.	1.7	73
53	Implementation of a Temperatureâ€Gradient Reactor System for Highâ€Throughput Investigation of Phosphonateâ€Based Inorganicâ€“Organic Hybrid Compounds. Angewandte Chemie - International Edition, 2007, 46, 6857-6860.	7.2	72
54	Exact Stoichiometry of Ce_xZr_{6â€“x} Cornerstones in Mixed-Metal UiO-66 Metalâ€“Organic Frameworks Revealed by Extended X-ray Absorption Fine Structure Spectroscopy. Journal of the American Chemical Society, 2018, 140, 17379-17383.	6.6	71

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55	Bismuth Triâ€•and Tetraarylcarboxylates: Crystal Structures, In Situ Xâ€•ray Diffraction, Intermediates and Luminescence. Chemistry - A European Journal, 2013, 19, 12537-12546.	1.7	70
56	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.	3.7	70
57	Probing the Evolution of Palladium Species in Pd@MOF Catalysts during the Heck Coupling Reaction: An Operando X-ray Absorption Spectroscopy Study. Journal of the American Chemical Society, 2018, 140, 8206-8217.	6.6	70
58	Green Synthesis of Zr-CAU-28: Structure and Properties of the First Zr-MOF Based on 2,5-Furandicarboxylic Acid. Inorganic Chemistry, 2017, 56, 2270-2277.	1.9	66
59	A zirconium squarate metalâ€“organic framework with modulator-dependent molecular sieving properties. Chemical Communications, 2014, 50, 10055-10058.	2.2	64
60	Biocompatible, Crystalline, and Amorphous Bismuth-Based Metalâ€“Organic Frameworks for Drug Delivery. ACS Applied Materials & Interfaces, 2020, 12, 5633-5641.	4.0	64
61	Aluminum-1,4-cyclohexanedicarboxylates: High-Throughput and Temperature-Dependent in Situ EDXRD Studies. Inorganic Chemistry, 2013, 52, 8699-8705.	1.9	63
62	A precursor method for the synthesis of new Ce(<scp>iv</scp>) MOFs with reactive tetracarboxylate linkers. Chemical Communications, 2018, 54, 876-879.	2.2	60
63	A new aluminium-based microporous metalâ€“organic framework: Al(BTB) (BTB =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td	2.2	58
64	Rietveld Refinement of MILâ€•160 and Its Structural Flexibility Upon H₂O and N₂ Adsorption. European Journal of Inorganic Chemistry, 2018, 2018, 3626-3632.	1.0	58
65	Rapid and highly sensitive detection of extracellular and intracellular H₂S by an azide-functionalized Al(<scp>iii</scp>)-based metalâ€“organic framework. Dalton Transactions, 2017, 46, 12856-12864.	1.6	57
66	Synthesis, Transformation, Catalysis, and Gas Sorption Investigations on the Bismuth Metalâ€“Organic Framework CAUâ€•17. European Journal of Inorganic Chemistry, 2018, 2018, 3496-3503.	1.0	57
67	Water-based synthesis and characterisation of a new Zr-MOF with a unique inorganic building unit. Chemical Communications, 2016, 52, 12698-12701.	2.2	56
68	Tunable Confined Aliphatic Pore Environment in Robust Metalâ€“Organic Frameworks for Efficient Separation of Gases with a Similar Structure. Journal of the American Chemical Society, 2022, 144, 14322-14329.	6.6	56
69	Structure and properties of Al-MIL-53-ADP, a breathing MOF based on the aliphatic linker molecule adipic acid. Dalton Transactions, 2016, 45, 4179-4186.	1.6	54
70	Controlled modification of the inorganic and organic bricks in an Al-based MOF by direct and post-synthetic synthesis routes. CrystEngComm, 2012, 14, 4126.	1.3	52
71	Crystallisation Kinetics of Metal Organic Frameworks From in situ Time-Resolved X-ray Diffraction. Powder Diffraction, 2013, 28, S256-S275.	0.4	52
72	Synthesis, functionalisation and post-synthetic modification of bismuth metalâ€“organic frameworks. Dalton Transactions, 2017, 46, 8658-8663.	1.6	52

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73	Crystalline and permanently porous porphyrin-based metal tetraphosphonates. Chemical Communications, 2018, 54, 389-392.	2.2	52
74	Systematic and In Situ Energy Dispersive X-ray Diffraction Investigations on the Formation of Lanthanide Phosphonatobutanesulfonates: Ln(O₃P-C₄H₈-SO₃)(H₂O) (Ln = Laâ€'Gd). Inorganic Chemistry, 2010, 49, 11158-11163.	1.9	51
75	First Keto-Functionalized Microporous Al-Based Metalâ€“Organic Framework: [Al(OH)(O₂C-C₆H₄-CO-C₆H₄-CO₂)]. Inorganic Chemistry, 2013, 52, 1854-1859.	1.9	51
76	Flow-synthesis of carboxylate and phosphonate based metalâ€“organic frameworks under non-solvothermal reaction conditions. Dalton Transactions, 2015, 44, 11235-11240.	1.6	51
77	Systematic Investigation of Lanthanide Phosphonatoethanesulfonate Framework Structures by High-Throughput Methods, Ln(O₃Pâ€'C₂H₄â€'SO₃)(H₂O) (Ln = Laâ€'Dy). Inorganic Chemistry, 2007, 46, 9968-9974.	1.9	50
78	Synthesis and structural characterization of the Pb(II)-organophosphonates: the three-dimensional Pb[HO3PCH2NHCH2PO3H] and the two-dimensional Pb[O3PCH2NH2CH2COO]. Solid State Sciences, 2002, 4, 1089-1094.	1.5	49
79	Synthesis and crystal chemistry of the STA-12 family of metal N,Nâ€²-piperazinebis(methylenephosphonate)s and applications of STA-12(Ni) in the separation of gases. Microporous and Mesoporous Materials, 2012, 157, 3-17.	2.2	49
80	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.	1.7	49
81	MOFs â€“ Metallorganische GerÃ¼ststrukturen. Funktionale porÃ¶se Materialien. Chemie in Unserer Zeit, 2008, 42, 12-19.	0.1	48
82	Dihydroxybenzoquinone as Linker for the Synthesis of Permanently Porous Aluminum Metalâ€“Organic Frameworks. Inorganic Chemistry, 2016, 55, 7425-7431.	1.9	48
83	Inorganicâ€“organic hybrid compounds: Synthesis and characterization of three new metal phosphonates with similar characteristic structural features. Journal of Solid State Chemistry, 2006, 179, 145-155.	1.4	45
84	Inorganicâ€“organic hybrid compounds: hydrothermal synthesis and characterization of a new three-dimensional metal tetraphosphonate Mn[(HO3PCH2)N(H)(CH2)4(H)N(CH2PO3H)2]. Journal of Solid State Chemistry, 2004, 177, 642-647.	1.4	44
85	New Group 13 MIL-53 Derivates based on 2,5-Thiophenedicarboxylic Acid. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1600-1608.	0.6	44
86	New Al-MOFs Based on Sulfonyldibenzoate Ions: A Rare Example of Intralayer Porosity. Inorganic Chemistry, 2015, 54, 492-501.	1.9	43
87	Surface-modified CAU-10 MOF materials as humidity sensors: impedance spectroscopic study on water uptake. Physical Chemistry Chemical Physics, 2015, 17, 21634-21642.	1.3	42
88	A Breathing Zirconium Metalâ€“Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. Chemistry - A European Journal, 2016, 22, 3264-3267.	1.7	41
89	High-throughput studies of highly porous Al-based MOFs. Microporous and Mesoporous Materials, 2013, 171, 156-165.	2.2	39
90	Solvent-Dependent Formation of Three New Bi-Metalâ€“Organic Frameworks Using a Tetracarboxylic Acid. Crystal Growth and Design, 2018, 18, 4060-4067.	1.4	39

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91	A new calcium tetraphosphonate containing small pores, Ca[(HO3PCH2)2N(H)â€“CH2C6H4CH2â€“N(H)(CH2PO3H)2]Â·2H2O. Microporous and Mesoporous Materials, 2004, 69, 65-69.	2.2	38
92	Identifying Selective Hostâ€“Guest Interactions Based on Hydrogen Bond Donorâ€“Acceptor Pattern in Functionalized Al-MIL-53 Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2013, 117, 19991-20001.	1.5	38
93	The new triazine-based porous copper phosphonate [Cu₃(PPT)(H₂O)₃]Â·10H₂O. Dalton Transactions, 2015, 44, 3720-3723.	1.6	38
94	Complex Hydrothermal Reaction Systems: A Systematic Investigation of Copper Phosphonatoethanesulfonates by High-Throughput Methods. European Journal of Inorganic Chemistry, 2008, 2008, 5038-5045.	1.0	37
95	Synthesis of isoreticular CAU-1 compounds: effects of linker and heating methods on the kinetics of the synthesis. CrystEngComm, 2012, 14, 505-511.	1.3	37
96	Nanoscale Synthesis of Two Porphyrin-Based MOFs with Gallium and Indium. Inorganic Chemistry, 2016, 55, 5312-5319.	1.9	37
97	Copper Phosphonatoethanesulfonates: Temperature Dependent in Situ Energy Dispersive X-ray Diffraction Study and Influence of the pH on the Crystal Structures. Inorganic Chemistry, 2012, 51, 12540-12547.	1.9	35
98	Solvent Impact on the Properties of Benchmark Metalâ€“Organic Frameworks: Acetonitrileâ€Based Synthesis of CAUâ€10, Ceâ€UiOâ€66, and Alâ€MILâ€53. Chemistry - A European Journal, 2020, 26, 3877-3883.	1.7	35
99	Four new Al-based microporous metal-organic framework compounds with MIL-53-type structure containing functionalized extended linker molecules. Microporous and Mesoporous Materials, 2015, 216, 13-19.	2.2	34
100	Screening of mixed-linker CAU-10 MOF materials for humidity sensing by impedance spectroscopy. Microporous and Mesoporous Materials, 2016, 220, 39-43.	2.2	34
101	Layered Lanthanide Sulfophosphonates and Their Proton Conduction Properties in Membrane Electrode Assemblies. Chemistry of Materials, 2019, 31, 9625-9634.	3.2	34
102	Green Synthesis of a New Alâ€MOF Based on the Aliphatic Linker Mesaconic Acid: Structure, Properties and In Situ Crystallisation Studies of Alâ€MILâ€68â€Mes. Chemistry - A European Journal, 2018, 24, 2173-2181.	1.7	33
103	Synthesis and Exfoliation of a New Layered Mesoporous Zr-MOF Comprising Hexa- and Dodecanuclear Clusters as Well as a Small Organic Linker Molecule. Journal of the American Chemical Society, 2020, 142, 15995-16000.	6.6	33
104	Expanding the Variety of Zirconiumâ€based Inorganic Building Units for Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 10995-11000.	7.2	31
105	Synthesis of MOFs: a personal view on rationalisation, application and exploration. Dalton Transactions, 2017, 46, 8339-8349.	1.6	30
106	Implementing chemical functionality into oriented films of metalâ€“organic frameworks on self-assembled monolayers. Journal of Materials Chemistry, 2011, 21, 14849.	6.7	29
107	Co-Ligand Dependent Formation and Phase Transformation of Four Porphyrin-Based Cerium Metalâ€“Organic Frameworks. Crystal Growth and Design, 2017, 17, 3462-3474.	1.4	29
108	Direct water-based synthesis and characterization of new Zr/Hf-MOFs with dodecanuclear clusters as IBUs. CrystEngComm, 2018, 20, 5108-5111.	1.3	29

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109	Fluorogenic naked-eye sensing and live-cell imaging of cyanide by a hydrazine-functionalized CAU-10 metalâ€“organic framework. CrystEngComm, 2018, 20, 4194-4201.	1.3	29
110	Selective catalytic reduction of NO by cerium-based metalâ€“organic frameworks. Catalysis Science and Technology, 2020, 10, 337-341.	2.1	29
111	[Cd₃(H₂O)₃((O₃PCH₂)₂NHâ^'CH₂C<sub> A Layered Cadmium Phosphonate with Reversible Dehydration/Hydration Properties. Inorganic Chemistry, 2007, 46, 9998-10002.	1.9	28
112	Polymorphous Al-MOFs Based on V-Shaped Linker Molecules: Synthesis, Properties, and in Situ Investigation of Their Crystallization. Inorganic Chemistry, 2017, 56, 5851-5862.	1.9	25
113	Disclosing the Properties of a New Ce(III)-Based MOF: Ce₂(NDC)₃(DMF)₂. Crystal Growth and Design, 2019, 19, 787-796.	1.4	25
114	Reversible Optical Writing and Data Storage in an Anthraceneâ€Loaded Metalâ€Organic Framework. Angewandte Chemie, 2018, 131, 2445.	1.6	24
115	The first water-based synthesis of Ce(iv)-MOFs with saturated chiral and achiral C4-dicarboxylate linkers. Dalton Transactions, 2019, 48, 8433-8441.	1.6	24
116	Biomimetic Carbon Fiber Systems Engineering: A Modular Design Strategy To Generate Biofunctional Composites from Graphene and Carbon Nanofibers. ACS Applied Materials & Interfaces, 2019, 11, 5325-5335.	4.0	24
117	Polymorphous Indium Metalâ€“Organic Frameworks Based on a Ferrocene Linker: Redox Activity, Porosity, and Structural Diversity. Inorganic Chemistry, 2020, 59, 9969-9978.	1.9	24
118	A multi-purpose reaction cell for the investigation of reactions under solvothermal conditions. Review of Scientific Instruments, 2017, 88, 104102.	0.6	22
119	High-throughput and microwave investigation of rare earth phosphonatoethanesulfonatesâ€”Ln(O3Pâ€“C2H4â€“SO3) (Ln=Ho, Er, Tm, Yb, Lu, Y). Journal of Solid State Chemistry, 2008, 181, 3065-3070.	1.4	21
120	High-throughput and in situ EDXRD investigation on the formation of two new metal aminoethylphosphonates â€“ Ca(O3PC2H4NH2) and Ca(OH)(O3PC2H4NH3)Â·2H2O. Journal of Solid State Chemistry, 2012, 188, 44-49.	1.4	21
121	High-throughput ultrasonic synthesis and in situ crystallisation investigation of metal phosphonocarboxylates. Dalton Transactions, 2014, 43, 414-422.	1.6	21
122	Combined in- and ex situ studies of pyrazine adsorption into the aliphatic MOF Al-CAU-13: structures, dynamics and correlations. Dalton Transactions, 2017, 46, 1397-1405.	1.6	21
123	Charting the Metal-Dependent High-Pressure Stability of Bimetallic UiO-66 Materials. , 2020, 2, 438-445.		21
124	High-throughput microwave-assisted discovery of new metal phosphonates. Dalton Transactions, 2013, 42, 8761.	1.6	20
125	Sulfonyl chlorides as an efficient tool for the postsynthetic modification of Cr-MIL-101-SO₃H and CAU-1-NH₂. Chemical Communications, 2014, 50, 9306-9308.	2.2	20
126	An in situ investigation of the water-induced phase transformation of UTSA-74 to MOF-74(Zn). CrystEngComm, 2017, 19, 4152-4156.	1.3	20

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127	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.	1.5	20
128	Systematic Investigations of the Transition between Framework Topologies in Ce/Zr-MOFs. Inorganic Chemistry, 2018, 57, 12820-12826.	1.9	20
129	In situ XAS study of the local structure and oxidation state evolution of palladium in a reduced graphene oxide supported Pd(ii) carbene complex during an undirected Câ€“H acetoxylation reaction. Catalysis Science and Technology, 2019, 9, 2025-2031.	2.1	20
130	Ce-MIL-140: expanding the synthesis routes for cerium(<scp>iv</scp>) metalâ€“organic frameworks. Dalton Transactions, 2020, 49, 11396-11402.	1.6	20
131	From Tetrahedral Tetraphosphonic Acids E[p -C₆ H₄ P(O)(OH)₂]₄ (E=C, Si) to Porous Cu- and Zn-MOFs with Large Surface Areas. ChemistrySelect, 2017, 2, 3035-3038.	0.7	19
132	Synthesis of bifunctional coreâ€“shell particles with a porous zeolite core and a responsive polymeric shell. Colloid and Polymer Science, 2008, 286, 831-836.	1.0	18
133	High-Throughput and in Situ Energy Dispersive X-ray Diffraction Investigation on the Formation of the New Metal Organogermanate Cu(OOCC₂H₄Ge)₂O₃. Crystal Growth and Design, 2011, 11, 5682-5687.	1.4	18
134	[Al2(OH)2(TCPB)] â€“ An Al-MOF based on a tetratopic linker molecule. Microporous and Mesoporous Materials, 2015, 216, 27-35.	2.2	18
135	Synthesis and characterisation of the porous zinc phosphonate [Zn₂(H₂PPB)(H₂O)₂]Â·xH₂O. CrystEngComm, 2016, 18, 8147-8150.	1.3	18
136	Scandium Metalâ€“Organic Frameworks Containing Tetracarboxylate Linker Molecules: Synthesis, Structural Relationships, and Properties. Crystal Growth and Design, 2020, 20, 4686-4694.	1.4	18
137	Synthesis and characterization of 2-phosphonoethanesulfonic acid and a barium-hydrogenphosphonatoethanesulfonate â€” BaH(O3Pâ€“C2H4â€“SO3). Journal of Solid State Chemistry, 2008, 181, 473-479.	1.4	17
138	Synthesis of 4-Phosphonobutanesulfonic Acid and Systematic Investigation of Copper Phosphonatobutanesulfonates by High-Throughput Methods. Crystal Growth and Design, 2009, 9, 586-592.	1.4	17
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