

Pascal D C Dietzel

List of Publications by Year in descending order

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papers

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218677

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#	ARTICLE	IF	CITATIONS
1	Variability in the Formation and Framework Polymorphism of Metal-organic Frameworks based on Yttrium(III) and the Bifunctional Organic Linker 2,5-Dihydroxyterephthalic Acid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 15-25.	1.2	1
2	Role of the metal cation in the dehydration of the microporous metal-organic frameworks CPO-27-M. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110503.	4.4	14
3	Effect of Larger Pore Size on the Sorption Properties of Isoreticular Metal-Organic Frameworks with High Number of Open Metal Sites. <i>Chemistry - A European Journal</i> , 2020, 26, 13523-13531.	3.3	8
4	Carbon dioxide induced structural phase transition in metal-organic frameworks CPO-27. <i>CrystEngComm</i> , 2020, 22, 4353-4358.	2.6	6
5	A calcium zirconate based combined material for calcium-copper chemical looping technology. <i>International Journal of Greenhouse Gas Control</i> , 2020, 95, 102953.	4.6	6
6	Morphology control in modulated synthesis of metal-organic framework CPO-27. <i>Microporous and Mesoporous Materials</i> , 2019, 275, 207-213.	4.4	28
7	Fixed Bed Reactor Validation of a Mayenite Based Combined Calcium-Copper Material for Hydrogen Production through Ca-Cu Looping. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14664-14677.	3.7	7
8	Electrospray Mass Spectrometry Investigation into the Formation of CPO-27. <i>Crystal Growth and Design</i> , 2019, 19, 2089-2096.	3.0	5
9	Incorporation of an intact dimeric Zr ₂ oxo cluster from a molecular precursor in a new zirconium metal-organic framework. <i>Chemical Communications</i> , 2018, 54, 2735-2738.	4.1	39
10	Open Metal Sites in the Metal-Organic Framework CPO-27-Cu: Detection of Regular and Defect Copper Species by CO and NO Probe Molecules. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17238-17249.	3.1	15
11	Modification of Network and Pore Dimensionality in Metal-Organic Frameworks Containing a Secondary Phosphine Functionality. <i>Crystal Growth and Design</i> , 2017, 17, 3257-3266.	3.0	16
12	An In-Depth Structural Study of the Carbon Dioxide Adsorption Process in the Porous Metal-Organic Frameworks CPO-27-M. <i>ChemSusChem</i> , 2017, 10, 1710-1719.	6.8	30
13	A Permanently Porous Yttrium-Organic Framework Based on an Extended Tridentate Phosphine Containing Linker. <i>Inorganic Chemistry</i> , 2017, 56, 12830-12838.	4.0	20
14	On the elusive nature of oxygen binding at coordinatively unsaturated 3d transition metal centers in metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26346-26357.	2.8	17
15	Ab initio structure solution and thermal stability evaluation of a new Ca(^{II}) 3D coordination polymer using synchrotron powder X-ray diffraction data. <i>CrystEngComm</i> , 2017, 19, 5857-5863.	2.6	1
16	Variation of Desolvation Behavior in Two Isostructural Metal-Organic Frameworks Based on a Flexible, Racemic Bifunctional Organic Linker. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4430-4439.	2.0	4
17	Metal-Organic Frameworks – Heading towards Application. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4273-4274.	2.0	6
18	Low-Temperature Adsorption of H ₂ and D ₂ on Dehydrated and Water Precovered CPO-27-Ni. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23083-23092.	3.1	9

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19	Two new Cu(ii) and La(iii) 2D coordination polymers, synthesis and in situ structural analysis by X-ray diffraction. Dalton Transactions, 2016, 45, 12827-12834.	3.3	1
20	Two New Series of Coordination Polymers and Evaluation of Their Properties by Density Functional Theory. Crystal Growth and Design, 2016, 16, 339-346.	3.0	6
21	Crystal structure of dimethyl 4,4'-dimethoxybiphenyl-3,3'-dicarboxylate. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 328-330.	0.5	2
22	Intriguing differences in hydrogen adsorption in CPO-27 materials induced by metal substitution. Journal of Materials Chemistry A, 2015, 3, 4827-4839.	10.3	61
23	The effect of solvent and temperature in the synthesis of CPO-27-Ni by reflux. Microporous and Mesoporous Materials, 2015, 203, 238-244.	4.4	21
24	Dimethyl 3,3'-dimethoxybiphenyl-4,4'-dicarboxylate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o449-o449.	0.2	1
25	Methyl 5-iodo-2-methoxybenzoate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o462-o462.	0.2	0
26	4,4'-Dimethoxybiphenyl-3,3'-dicarboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o615-o615.	0.2	2
27	Idiosyncrasies of Co2(dhtp): In situ-annealing by methanol. Microporous and Mesoporous Materials, 2014, 183, 117-123.	4.4	28
28	A combined experimental and quantum chemical study of CO2 adsorption in the metal-organic framework CPO-27 with different metals. Chemical Science, 2013, 4, 3544.	7.4	172
29	Poly[bis(1,3-dimethylimidazolidin-2-one)(1/4₂-2,5-dioxidoterephthalato)zirconium(IV)]. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m152-m152.	0.2	5
30	Poly[bis(1,3-dimethyl-1,3-diazinan-2-one)(2,5-dioxidoterephthalato)zirconium(IV)]. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m153-m153.	0.2	4
31	Functionalization of CPO-27-Ni through metal hexacarbonyls: The role of open Ni2+ sites. Microporous and Mesoporous Materials, 2012, 157, 56-61.	4.4	13
32	The iron member of the CPO-27 coordination polymer series: Synthesis, characterization, and intriguing redox properties. Microporous and Mesoporous Materials, 2012, 157, 62-74.	4.4	59
33	Methane storage on CPO-27-Ni pellets. Journal of Porous Materials, 2011, 18, 289-296.	2.6	78
34	Polymer nanocomposite coatings based on polyhedral oligosilsesquioxanes: route for industrial manufacturing and barrier properties. Journal of Nanoparticle Research, 2011, 13, 4691-4701.	1.9	18
35	The Mixed-Valence, Mixed-Ligand Complex Co₃(thd)₃(EtO)₄(tert-BuCOO). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2175-2182.	1.2	1
36	Interaction of hydrogen with accessible metal sites in the metal-organic frameworks M2(dhtp) (CPO-27-M; M = Ni, Co, Mg). Chemical Communications, 2010, 46, 4962.	4.1	173

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37	Coordination Polymers Based on the 2,5-Dihydroxyterephthalate Ion and Alkaline Earth Metal (Ca, Sr) and Manganese Cations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1953-1958.	1.2	42
38	Application of metal-organic frameworks with coordinatively unsaturated metal sites in storage and separation of methane and carbon dioxide. Journal of Materials Chemistry, 2009, 19, 7362.	6.7	633
39	CO Adsorption on CPO-27-Ni Coordination Polymer: Spectroscopic Features and Interaction Energy. Journal of Physical Chemistry C, 2009, 113, 3292-3299.	3.1	121
40	Response of CPO-27-Ni towards CO, N ₂ and C ₂ H ₄ . Physical Chemistry Chemical Physics, 2009, 11, 9811.	2.8	87
41	Syntheses, Structures, and Polymorphism of β -diketonato Complexes $\text{Co}(\text{thd})_3$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 247-254.	1.2	19
42	Structural Changes and Coordinatively Unsaturated Metal Atoms on Dehydration of Honeycomb Analogous Microporous Metal-Organic Frameworks. Chemistry - A European Journal, 2008, 14, 2389-2397.	3.3	250
43	Base-Induced Formation of Two Magnesium Metal-Organic Framework Compounds with a Bifunctional Tetratopic Ligand. European Journal of Inorganic Chemistry, 2008, 2008, 3624-3632.	2.0	295
44	Fischer-Tropsch synthesis: Cobalt particle size and support effects on intrinsic activity and product distribution. Journal of Catalysis, 2008, 259, 161-164.	6.2	297
45	Role of Exposed Metal Sites in Hydrogen Storage in MOFs. Journal of the American Chemical Society, 2008, 130, 8386-8396.	13.7	384
46	Local Structure of CPO-27-Ni Metallorganic Framework upon Dehydration and Coordination of NO. Chemistry of Materials, 2008, 20, 4957-4968.	6.7	195
47	Adsorption properties and structure of CO ₂ adsorbed on open coordination sites of metal-organic framework Ni ₂ (dhtp) from gas adsorption, IR spectroscopy and X-ray diffraction. Chemical Communications, 2008, , 5125.	4.1	348
48	The first crystal structure with pyrazine-2-carboxylato-3-amide as a ligand. Synthesis and structure of cis - N , cis - O , trans - O -diaquobis(pyrazine-2-carboxylato- 3-amide)nickel dihydrate. Journal of Coordination Chemistry, 2007, 60, 431-437.	2.2	7
49	The Inconsistency in Adsorption Properties and Powder XRD Data of MOF-5 Is Rationalized by Framework Interpenetration and the Presence of Organic and Inorganic Species in the Nanocavities. Journal of the American Chemical Society, 2007, 129, 3612-3620.	13.7	575
50	The Crystal Structures of the Room Temperature and the Low Temperature Phase of Dimethylammonium Trifluoromethanesulfonate. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1410-1416.	1.2	1
51	Mixed Ligand Complexes of Cobalt(II) - Synthesis, Structure, and Properties of $\text{Co}_4(\text{thd})_4(\text{OEt})_4$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1371-1381.	1.2	12
52	Superoxide Compounds of the Large Pseudo-Alkali-Metal Ions Tetramethylammonium, -Phosphonium, and -Arsonium. Chemistry - an Asian Journal, 2007, 2, 66-75.	3.3	8
53	Increased dimensionalities of zinc-diphenic acid coordination polymers by simultaneous or subsequent addition of neutral bridging ligands. Dalton Transactions, 2006, , 586-593.	3.3	23
54	A scandium coordination polymer constructed from trimeric octahedral building blocks and 2,5-dihydroxyterephthalate. Dalton Transactions, 2006, , 2055-2057.	3.3	52

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55	Hydrogen adsorption in a nickel based coordination polymer with open metal sites in the cylindrical cavities of the desolvated framework. <i>Chemical Communications</i> , 2006, , 959.	4.1	596
56	Dimeric Sandwich-like Ion Pairs in the Crystal Structure of Tetrabutylammonium Ozonide Ammoniate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 2276-2280.	1.2	5
57	An In Situ High-Temperature Single-Crystal Investigation of a Dehydrated Metal-Organic Framework Compound and Field-Induced Magnetization of One-Dimensional Metal-Oxygen Chains. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6354-6358.	13.8	528
58	Synthesis and Crystal Structures of Tris-[3, 5-bis(trifluoromethyl)phenyl]arsine Oxide at 293 and 100 K and the Localization of the Trifluoromethyl Groups. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 1573-1577.	1.2	3
59	Tetraorganylammonium Superoxide Compounds: A Close to Unperturbed Superoxide Ions in the Solid State. <i>Journal of the American Chemical Society</i> , 2004, 126, 4689-4696.	13.7	61
60	Tetramethylphosphonium hydrogen carbonate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o1003-o1004.	0.2	3
61	Synthesis and crystal structure determination of tetramethylammonium auride. <i>Chemical Communications</i> , 2001, , 2208-2209.	4.1	46