

# Pascal D C Dietzel

## List of Publications by Year in descending order

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61  
papers

5,586  
citations

218677

26  
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118850

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docs citations

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times ranked

5426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of metal-organic frameworks with coordinatively unsaturated metal sites in storage and separation of methane and carbon dioxide. <i>Journal of Materials Chemistry</i> , 2009, 19, 7362.	6.7	633
2	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
3	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. <i>Journal of the American Chemical Society</i> , 2007, 129, 3612-3620.	13.7	575
4	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
5	Role of Exposed Metal Sites in Hydrogen Storage in MOFs. <i>Journal of the American Chemical Society</i> , 2008, 130, 8386-8396.	13.7	384
6	Adsorption properties and structure of CO <sub>2</sub> adsorbed on open coordination sites of metal-organic framework Ni <sub>2</sub> (dhtp) from gas adsorption, IR spectroscopy and X-ray diffraction. <i>Chemical Communications</i> , 2008, , 5125.	4.1	348
7	Fischer-Tropsch synthesis: Cobalt particle size and support effects on intrinsic activity and product distribution. <i>Journal of Catalysis</i> , 2008, 259, 161-164.	6.2	297
8	Base-Induced Formation of Two Magnesium Metal-Organic Framework Compounds with a Bifunctional Tetratopic Ligand. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3624-3632.	2.0	295
9	Structural Changes and Coordinatively Unsaturated Metal Atoms on Dehydration of Honeycomb Analogous Microporous Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2008, 14, 2389-2397.	3.3	250
10	Local Structure of CPO-27-Ni Metallorganic Framework upon Dehydration and Coordination of NO. <i>Chemistry of Materials</i> , 2008, 20, 4957-4968.	6.7	195
11	Interaction of hydrogen with accessible metal sites in the metal-organic frameworks M <sub>2</sub> (dhtp) (CPO-27-M; M = Ni, Co, Mg). <i>Chemical Communications</i> , 2010, 46, 4962.	4.1	173
12	A combined experimental and quantum chemical study of CO <sub>2</sub> adsorption in the metal-organic framework CPO-27 with different metals. <i>Chemical Science</i> , 2013, 4, 3544.	7.4	172
13	CO Adsorption on CPO-27-Ni Coordination Polymer: Spectroscopic Features and Interaction Energy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3292-3299.	3.1	121
14	Response of CPO-27-Ni towards CO, N <sub>2</sub> and C <sub>2</sub> H <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9811.	2.8	87
15	Methane storage on CPO-27-Ni pellets. <i>Journal of Porous Materials</i> , 2011, 18, 289-296.	2.6	78
16	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
17	Intriguing differences in hydrogen adsorption in CPO-27 materials induced by metal substitution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4827-4839.	10.3	61
18	The iron member of the CPO-27 coordination polymer series: Synthesis, characterization, and intriguing redox properties. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 62-74.	4.4	59

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19	A scandium coordination polymer constructed from trimeric octahedral building blocks and 2,5-dihydroxyterephthalate. Dalton Transactions, 2006, , 2055-2057.	3.3	52
20	Synthesis and crystal structure determination of tetramethylammonium auride. Chemical Communications, 2001, , 2208-2209.	4.1	46
21	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
22	Incorporation of an intact dimeric Zr <sub>2</sub> oxo cluster from a molecular precursor in a new zirconium metal-organic framework. Chemical Communications, 2018, 54, 2735-2738.	4.1	39
23	An In-Depth Structural Study of the Carbon Dioxide Adsorption Process in the Porous Metal-Organic Frameworks CPO-27. ChemSusChem, 2017, 10, 1710-1719.	6.8	30
24	Idiosyncrasies of Co <sub>2</sub> (dhtp): In situ-annealing by methanol. Microporous and Mesoporous Materials, 2014, 183, 117-123.	4.4	28
25	Morphology control in modulated synthesis of metal-organic framework CPO-27. Microporous and Mesoporous Materials, 2019, 275, 207-213.	4.4	28
26	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
27	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
28	A Permanently Porous Yttrium-Organic Framework Based on an Extended Tridentate Phosphine Containing Linker. Inorganic Chemistry, 2017, 56, 12830-12838.	4.0	20
29	Syntheses, Structures, and Polymorphism of $\text{Co}(\text{thd})_3$ Diketonato Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 247-254.	1.2	19
30	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
31	On the elusive nature of oxygen binding at coordinatively unsaturated 3d transition metal centers in metal-organic frameworks. Physical Chemistry Chemical Physics, 2017, 19, 26346-26357.	2.8	17
32	Modification of Network and Pore Dimensionality in Metal-Organic Frameworks Containing a Secondary Phosphine Functionality. Crystal Growth and Design, 2017, 17, 3257-3266.	3.0	16
33	Open Metal Sites in the Metal-Organic Framework CPO-27-Cu: Detection of Regular and Defect Copper Species by CO and NO Probe Molecules. Journal of Physical Chemistry C, 2018, 122, 17238-17249.	3.1	15
34	Role of the metal cation in the dehydration of the microporous metal-organic frameworks CPO-27-M. Microporous and Mesoporous Materials, 2020, 309, 110503.	4.4	14
35	Functionalization of CPO-27-Ni through metal hexacarbonyls: The role of open Ni <sup>2+</sup> sites. Microporous and Mesoporous Materials, 2012, 157, 56-61.	4.4	13
36	Mixed Ligand Complexes of Cobalt(II) - Synthesis, Structure, and Properties of Co <sub>4</sub> (thd) <sub>4</sub> (OEt) <sub>4</sub> . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1371-1381.	1.2	12

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37	Low-Temperature Adsorption of H <sub>2</sub> and D <sub>2</sub> on Dehydrated and Water Precovered CPO-27-Ni. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23083-23092.	3.1	9
38	Superoxide Compounds of the Large Pseudo-Alkali-Metal Ions Tetramethylammonium, -Phosphonium, and -Arsonium. <i>Chemistry - an Asian Journal</i> , 2007, 2, 66-75.	3.3	8
39	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
40	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. <i>Journal of Coordination Chemistry</i> , 2007, 60, 431-437.	2.2	7
41	Fixed Bed Reactor Validation of a Mayenite Based Combined Calcium-Copper Material for Hydrogen Production through Ca-Cu Looping. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 14664-14677.	3.7	7
42	Metal-Organic Frameworks - Heading towards Application. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4273-4274.	2.0	6
43	Two New Series of Coordination Polymers and Evaluation of Their Properties by Density Functional Theory. <i>Crystal Growth and Design</i> , 2016, 16, 339-346.	3.0	6
44	Carbon dioxide induced structural phase transition in metal-organic frameworks CPO-27. <i>CrystEngComm</i> , 2020, 22, 4353-4358.	2.6	6
45	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
46	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
47	Poly[bis(1,3-dimethylimidazolidin-2-one)(1/4) <sub>2</sub> -2,5-dioxidoterephthalato]zirconium(IV)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m152-m152.	0.2	5
48	Electrospray Mass Spectrometry Investigation into the Formation of CPO-27. <i>Crystal Growth and Design</i> , 2019, 19, 2089-2096.	3.0	5
49	Poly[bis(1,3-dimethyl-1,3-diazinan-2-one)(2,5-dioxidoterephthalato)zirconium(IV)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m153-m153.	0.2	4
50	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
51	Tetramethylphosphonium hydrogen carbonate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o1003-o1004.	0.2	3
52	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
53	4,4'-Dimethoxybiphenyl-3,3'-dicarboxylic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o615-o615.	0.2	2
54	Crystal structure of dimethyl 4,4'-dimethoxybiphenyl-3,3'-dicarboxylate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016, 72, 328-330.	0.5	2

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55	The Crystal Structures of the Room Temperature and the Low Temperature Phase of Dimethylammonium Trifluoromethanesulfonate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 1410-1416.	1.2	1
56	The Mixed-Valence, Mixed-Ligand Complex $\text{Co}_3(\text{thd})_3(\text{EtO})_4(\text{tert-BuCOO})$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 2175-2182.	1.2	1
57	Dimethyl 3,3'-dimethoxybiphenyl-4,4'-dicarboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o449-o449.	0.2	1
58	Two new Cu(ii) and La(iii) 2D coordination polymers, synthesis and in situ structural analysis by X-ray diffraction. <i>Dalton Transactions</i> , 2016, 45, 12827-12834.	3.3	1
59	Ab initio structure solution and thermal stability evaluation of a new Ca( <sup>ii</sup> ) 3D coordination polymer using synchrotron powder X-ray diffraction data. <i>CrystEngComm</i> , 2017, 19, 5857-5863.	2.6	1
60	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
61	Methyl 5-iodo-2-methoxybenzoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o462-o462.	0.2	0