

# Christoph Janiak

## List of Publications by Citations

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661  
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36,224  
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#	Paper	IF	Citations
617	A critical account on $\pi$ -stacking in metal complexes with aromatic nitrogen-containing ligands. <i>Dalton Transactions RSC</i> , <b>2000</b> , 3885-3896		3684
616	Engineering coordination polymers towards applications. <i>Dalton Transactions</i> , <b>2003</b> , 2781	4.3	3165
615	MOFs, MILs and more: concepts, properties and applications for porous coordination networks (PCNs). <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 2366	3.6	934
614	Recent advances in crystal engineering. <i>CrystEngComm</i> , <b>2010</b> , 12, 22-43	3.3	642
613	Functional Organic Analogues of Zeolites Based on Metal-Organic Coordination Frameworks. <i>Angewandte Chemie International Edition in English</i> , <b>1997</b> , 36, 1431-1434		457
612	Metal-organic frameworks in mixed-matrix membranes for gas separation. <i>Dalton Transactions</i> , <b>2012</b> , 41, 14003-27	4.3	391
611	MOFs as adsorbents for low temperature heating and cooling applications. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2776-7	16.4	366
610	Mixed-Matrix Membranes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9292-9310	16.4	347
609	Metal catalysts for the vinyl/addition polymerization of norbornene. <i>Coordination Chemistry Reviews</i> , <b>2009</b> , 253, 827-861	23.2	284
608	MIL-100(Al, Fe) as water adsorbents for heat transformation purposes – promising application. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 10148-10151		282
607	Metal catalysts for the vinyl polymerization of norbornene. <i>Journal of Molecular Catalysis A</i> , <b>2001</b> , 166, 193-209		259
606	Crystal structure solid-state cross polarization magic angle spinning $^{13}\text{C}$ NMR correlation in luminescent d10 metal-organic frameworks constructed with the 1,2-Bis(1,2,4-triazol-4-yl)ethane ligand. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 2166-80	5.1	248
605	Mixed-ligand coordination polymers from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzene-1,3,5-tricarboxylate: trinuclear nickel or zinc secondary building units for three-dimensional networks with crystal-to-crystal transformation upon dehydration. <i>Dalton Transactions</i> , <b>2008</b> , 1734-44	4.3	246
604	MOFs for Use in Adsorption Heat Pump Processes. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 2625-2634	2.3	243
603	Hydrazone Schiff base-manganese(II) complexes: Synthesis, crystal structure and catalytic reactivity. <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 1599-1608	2.7	241
602	Water Adsorption Characteristics of MIL-101 for Heat-Transformation Applications of MOFs. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 471-474	2.3	240
601	Naked metal nanoparticles from metal carbonyls in ionic liquids: Easy synthesis and stabilization. <i>Coordination Chemistry Reviews</i> , <b>2011</b> , 255, 2039-2057	23.2	237

600	Coordinatively unsaturated metal sites (open metal sites) in metal-organic frameworks: design and applications. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 2751-2798	58.5	204
599	Programming MOFs for water sorption: amino-functionalized MIL-125 and UiO-66 for heat transformation and heat storage applications. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15967-73	4.3	202
598	Water and methanol adsorption on MOFs for cycling heat transformation processes. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 1846-1852	3.6	192
597	Crystal structures and solid-state CPDAS 13C NMR correlations in luminescent zinc(II) and cadmium(II) mixed-ligand coordination polymers constructed from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzenedicarboxylate. <i>Dalton Transactions</i> , <b>2009</b> , 1742-51	4.3	191
596	Two-dimensional water and ice layers: neutron diffraction studies at 278, 263, and 20 K. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 14010-1	16.4	190
595	From a supramolecular tetranitrile to a porous covalent triazine-based framework with high gas uptake capacities. <i>Chemical Communications</i> , <b>2013</b> , 49, 3961-3	5.8	188
594	Water Sorption Cycle Measurements on Functionalized MIL-101Cr for Heat Transformation Application. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 790-798	9.6	187
593	5,5'-Dicyano-2,2'-bipyridine silver complexes: discrete units or co-ordination polymers through a chelating and/or bridging metal-ligand interaction. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 183-190		186
592	The Vinyl Homopolymerization of Norbornene. <i>Macromolecular Rapid Communications</i> , <b>2001</b> , 22, 479-493	1.8	185
591	Bulky or Supracyclopentadienyl Derivatives in Organometallic Chemistry. <i>Advances in Organometallic Chemistry</i> , <b>1991</b> , 33, 291-393	3.8	182
590	Advancement of sorption-based heat transformation by a metal coating of highly-stable, hydrophilic aluminium fumarate MOF. <i>RSC Advances</i> , <b>2014</b> , 4, 24073-24082	3.7	181
589	Metallocene and related catalysts for olefin, alkyne and silane dimerization and oligomerization. <i>Coordination Chemistry Reviews</i> , <b>2006</b> , 250, 66-94	23.2	181
588	Highly stable nanoporous covalent triazine-based frameworks with an adamantane core for carbon dioxide sorption and separation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14990	13	167
587	First correlation of nanoparticle size-dependent formation with the ionic liquid anion molecular volume. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 14-6	5.1	166
586	Microwave irradiation for the facile synthesis of transition-metal nanoparticles (NPs) in ionic liquids (ILs) from metal-carbonyl precursors and Ru-, Rh-, and Ir-NP/IL dispersions as biphasic liquid-liquid hydrogenation nanocatalysts for cyclohexene. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 3849-58	4.8	165
585	Hydrogen-bonding, $\pi$ -stacking and Cl <sup>-</sup> anion $\pi$ interactions of linear bipyridinium cations with phosphate, chloride and [CoCl <sub>4</sub> ] <sup>2-</sup> anions. <i>CrystEngComm</i> , <b>2005</b> , 7, 633	3.3	161
584	Sulfate ion encapsulation in caged supramolecular structures assembled by second-sphere coordination. <i>Chemical Communications</i> , <b>2008</b> , 1762-4	5.8	160
583	Co-ordination engineering: when can one speak of an "understanding"? Case study of the multidentate ligand 2,2'-dimethyl-4,4'-bipyrimidine. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 3121-3131		160

- 582 Thallium(I)-thallium(I) and indium(I)-indium(I) interactions: from the molecular to the solid state. *Journal of the American Chemical Society*, **1990**, 112, 5924-5946 16.4 159
- 581 Use of ionic liquids (ILs) for the IL-anion size-dependent formation of Cr, Mo and W nanoparticles from metal carbonyl  $M(\text{CO})_6$  precursors. *Chemical Communications*, **2008**, 1789-91 5.8 158
- 580 Magnetic and luminescence properties of Cu(II), Cu(II) $4\text{O}_4$  core, and Cd(II) mixed-ligand metal-organic frameworks constructed from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzene-1,3,5-tricarboxylate. *Inorganica Chimica Acta*, **2009**, 362, 2452-2460 2.7 149
- 579 (Organo)thallium (I) and (II) chemistry: Syntheses, structures, properties and applications of subvalent thallium complexes with alkyl, cyclopentadienyl, arene or hydrotris(pyrazolyl)borate ligands. *Coordination Chemistry Reviews*, **1997**, 163, 107-216 23.2 142
- 578 Synthesis of Co, Rh and Ir nanoparticles from metal carbonyls in ionic liquids and their use as biphasic liquid-liquid hydrogenation nanocatalysts for cyclohexene. *Journal of Organometallic Chemistry*, **2009**, 694, 1069-1075 2.3 137
- 577 Use of Ionic Liquids for the Synthesis of Iron, Ruthenium, and Osmium Nanoparticles from Their Metal Carbonyl Precursors. *Organometallics*, **2008**, 27, 1976-1978 3.8 137
- 576 From model compounds to protein binding: syntheses, characterizations and fluorescence studies of  $[\text{Ru}(\text{bipy})(\text{terpy})\text{L}]^{2+}$  complexes (bipy = 2,2'-bipyridine; terpy = 2,2':6',2''-terpyridine; L = imidazole, pyrazole and derivatives, cytochrome c). *Dalton Transactions*, **2005**, 256-67 4.3 136
- 575 Covalent triazine-based frameworks (CTFs) from triptycene and fluorene motifs for  $\text{CO}_2$  adsorption. *Journal of Materials Chemistry A*, **2016**, 4, 6259-6263 13 135
- 574 MOF catalysts in biomass upgrading towards value-added fine chemicals. *CrystEngComm*, **2017**, 19, 4092-4117 3.5 133
- 573 Aluminium fumarate metal-organic framework: A super adsorbent for fluoride from water. *Journal of Hazardous Materials*, **2016**, 303, 10-20 12.8 129
- 572 Brønsted instead of Lewis acidity in functionalized MIL-101Cr MOFs for efficient heterogeneous (nano-MOF) catalysis in the condensation reaction of aldehydes with alcohols. *Inorganic Chemistry*, **2014**, 53, 7319-33 5.1 127
- 571 The use of microwave irradiation for the easy synthesis of graphene-supported transition metal nanoparticles in ionic liquids. *Carbon*, **2011**, 49, 1326-1332 10.4 126
- 570 Multicycle water vapour stability of microporous breathing MOF aluminium isophthalate CAU-10-H. *Dalton Transactions*, **2014**, 43, 15300-4 4.3 123
- 569 Binary [Hydrotris(indazol-1-yl)borato]metal Complexes,  $M(\text{Tp4Bo})_2[1]$  with  $M = \text{Fe}, \text{Co}, \text{Ni}, \text{Cu}$ , and  $\text{Zn}$ : Electronic Properties and Solvent-Dependent Framework Structures through  $\text{C-H}\cdots\text{N}$  Interactions. *European Journal of Inorganic Chemistry*, **2000**, 2000, 1229-1241 2.3 118
- 568 A method for increasing permeability in  $\text{O}_2/\text{N}_2$  separation with mixed-matrix membranes made of water-stable MIL-101 and polysulfone. *Chemical Communications*, **2012**, 48, 2140-2 5.8 117
- 567 [Hydrotris(1,2,4-triazolyl)borato]silver(I): Structure and Optical Properties of a Coordination Polymer Constructed from a Modified Poly(pyrazolyl)borate Ligand. *Journal of the American Chemical Society*, **1996**, 118, 6307-6308 16.4 116
- 566 High-yield, fluoride-free and large-scale synthesis of MIL-101(Cr). *Dalton Transactions*, **2015**, 44, 16791-8013 4.5 113
- 565 Chiral Coordination Polymers with Amino Acids:  $\text{[Cu}_2(\mu\text{-L-tryptophanato})_2(\mu\text{-4,4'-bipyridine})(\text{H}_2\text{O})_2](\text{NO}_3)_2$ . *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2007**, 633, 1189-1192 1.3 113

564	Water adsorption behaviour of CAU-10-H: a thorough investigation of its structure-property relationships. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11859-11869	13	112
563	Spontaneous resolution upon crystallization of chiral La(III) and Gd(III) MOFs from achiral dihydroxymalonate. <i>Chemical Communications</i> , <b>2010</b> , 46, 8270-2	5.8	108
562	Full- or half-encapsulation of sulfate anion by a tris(3-pyridylurea) receptor: effect of the secondary coordination sphere. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10249-56	5.1	108
561	A photoluminescent covalent triazine framework: CO <sub>2</sub> adsorption, light-driven hydrogen evolution and sensing of nitroaromatics. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13450-13457	13	105
560	Polymorphs, enantiomorphs, chirality and helicity in [Rh{N,O}{eta <sup>4</sup> -cod}] complexes with {N,O}=salicylaldehyde Schiff base or aminocarboxylate ligands. <i>Dalton Transactions</i> , <b>2009</b> , 3698-709	4.3	103
559	Pentabenzylcyclopentadienylthallium(I): Synthesis and Structure of a Dimeric Organothallium Compound with Tl-Tl Interaction. <i>Angewandte Chemie International Edition in English</i> , <b>1987</b> , 26, 789-790		103
558	Metal carbonyls supported on iron oxide nanoparticles to trigger the CO-gas transmitter release by magnetic heating. <i>Chemical Communications</i> , <b>2013</b> , 49, 4896-8	5.8	101
557	Ionic Liquids for the Synthesis and Stabilization of Metal Nanoparticles. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2013</b> , 68, 1059-1089	1	100
556	Decaphenylstannocene, [eta <sup>5</sup> -(C <sub>6</sub> H <sub>5</sub> ) <sub>5</sub> C <sub>5</sub> ] <sub>2</sub> SnII: the first symmetrical main-group sandwich compound. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 4259-4261	16.4	100
555	Supramolecular C <sup>+</sup> H <sup>+</sup> O, C <sup>+</sup> H <sup>+</sup> N and C <sup>+</sup> H <sup>+</sup> Cl interactions in metal compounds with multi-topic poly(pyrazolyl)borate ligands. <i>Polyhedron</i> , <b>2003</b> , 22, 1123-1133	2.7	97
554	Metal-Organic Frameworks with Potential Application for SO Separation and Flue Gas Desulfurization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17350-17358	9.5	94
553	Enhancing Mixed-Matrix Membrane Performance with Metal-Organic Framework Additives. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 4467-4488	3.5	92
552	Metal-Organic Frameworks with Internal Urea-Functionalized Dicarboxylate Linkers for SO and NH Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37419-37434	9.5	92
551	Novel C,N-Cyclometalated Benzimidazole Ruthenium(II) and Iridium(III) Complexes as Antitumor and Antiangiogenic Agents: A Structure-Activity Relationship Study. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 7310-27	8.3	92
550	Agostic assistance to olefin insertion in alkylzirconocene cations: a molecular orbital study by the extended Hückel method. <i>Organometallics</i> , <b>1992</b> , 11, 4036-4041	3.8	89
549	Dihalogeno(diphosphane)metal(II) complexes (metal = Co, Ni, Pd) as pre-catalysts for the vinyl addition polymerization of norbornene: elucidation of the activation process with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> /AlEt <sub>3</sub> or Ag[closo-1-CB <sub>11</sub> H <sub>12</sub> ] and evidence for the in situ formation of a Pd <sup>+</sup> species. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 637, 117-128	4.3	88
548	Modified Bipyridines: 5,5'-Diamino-2,2'-bipyridine Metal Complexes Assembled into Multidimensional Networks via Hydrogen Bonding and $\pi$ -Stacking Interactions. <i>European Journal of Inorganic Chemistry</i> , <b>1999</b> , 1999, 1507-1521	2.3	88
547	The influence of electronic and steric effects and the importance of polymerization conditions in the ethylene polymerization with zirconocene/MAO catalysts. <i>Journal of Organometallic Chemistry</i> , <b>1995</b> , 501, 219-234	2.3	87

546	Polymethylene spacer regulated structural divergence in cadmium complexes: Unusual trigonal prismatic and severely distorted octahedral coordination. <i>Polyhedron</i> , <b>2005</b> , 24, 593-599	2.7	86
545	Homojunction of Oxygen and Titanium Vacancies and its Interfacial n-p Effect. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802173	24	86
544	CO-releasing molecule (CORM) conjugate systems. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18045-18063	4.3	85
543	The potassium promoter function in the oxidation of graphite: an experimental and theoretical study. <i>Langmuir</i> , <b>1993</b> , 9, 3427-3440	4	85
542	Homo- and heterometallic carboxylate cage complexes as precatalysts for olefin polymerization: Activity enhancement through inert metals. <i>Journal of Catalysis</i> , <b>2004</b> , 222, 260-267	7.3	84
541	Synthesis and crystal structure of pentabenzylcyclopentadienylindium(I). <i>Journal of Organometallic Chemistry</i> , <b>1989</b> , 363, 243-251	2.3	84
540	A chemical approach to the orbitals of organic polymers. <i>Macromolecules</i> , <b>1991</b> , 24, 3725-3746	5.5	84
539	On the antitumor properties of novel cyclometalated benzimidazole Ru(II), Ir(III) and Rh(III) complexes. <i>Chemical Communications</i> , <b>2013</b> , 49, 11533-5	5.8	83
538	Syntheses, Spectroscopic Studies, and Crystal Structures of Chiral [Rh(aminocarboxylato)(1,4-cod)] and Chiral [Rh(amino alcohol)(1,4-cod)](acetate) Complexes with an Example of a Spontaneous Resolution of a Racemic Mixture into Homochiral Helix-Enantiomers. <i>European Journal of Inorganic Chemistry</i> , <b>2006</b> , 2006, 2146-2154	2.3	83
537	Bifunctional pyrazolate-carboxylate ligands for isorecticular cobalt and zinc MOF-5 analogs with magnetic analysis of the {Co4( $\mu$ -O)} node. <i>CrystEngComm</i> , <b>2013</b> , 15, 9757	3.3	82
536	Confinement Effects in Zeolite-Confined Noble Metals. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12340-12354	16.4	82
535	Synthesis, stabilization, functionalization and, DFT calculations of gold nanoparticles in fluorinated phases (PTFE and ionic liquids). <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 10047-59	4.8	81
534	Synthesis, structure and bonding of cadmium(II) thiocyanate systems featuring nitrogen based ligands of different denticity. <i>Inorganica Chimica Acta</i> , <b>2005</b> , 358, 535-544	2.7	81
533	Selective glucose conversion to 5-hydroxymethylfurfural (5-HMF) instead of levulinic acid with MIL-101Cr MOF-derivatives. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 7958-7967	3.6	80
532	Chirality and diastereoselection of $\mu$ -configured tetrahedral zinc complexes through enantiopure Schiff base complexes: combined vibrational circular dichroism, density functional theory, <sup>1</sup> H NMR, and X-ray structural studies. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11363-74	5.1	80
531	A Functional Full-Scale Heat Exchanger Coated with Aluminum Fumarate Metal-Organic Framework for Adsorption Heat Transformation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 8393-8398	3.9	78
530	N-o-Vanillylidene-L-histidine: Experimental Charge Density Analysis of a Double Zwitterionic Amino Acid Schiff-Base Compound. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 1665-1676	3.5	77
529	Oxo-anion binding by protonated (dimethylphenyl)(pyridyl)ureas. <i>CrystEngComm</i> , <b>2007</b> , 9, 676	3.3	77

528	Porous coordination polymers as novel sorption materials for heat transformation processes. <i>Chimia</i> , <b>2013</b> , 67, 419-24	1.3	76
527	(infinity)(2)[Cu2(mu5-btb)(mu-OH)(mu-H2O)]: a two-dimensional coordination polymer built from ferromagnetically coupled Cu2 units (btb = benzene-1,2,3-tricarboxylate). <i>Dalton Transactions</i> , <b>2008</b> , 4877-84	4.3	76
526	Nickel(II) and palladium(II) complexes with diimine ligands as catalysts for the vinyl polymerization of norbornene in combination with methylaluminumoxane, tris(pentafluorophenyl)borane, or triethylaluminum cocatalyst systems. <i>Journal of Polymer Science Part A</i> , <b>2002</b> , 40, 3604-3614	2.5	75
525	Stop-and-go, stepwise and "ligand-free" nucleation, nanocrystal growth and formation of Au-NPs in ionic liquids (ILs). <i>Chemical Communications</i> , <b>2010</b> , 46, 1159-61	5.8	74
524	Synthesis of Cu, Zn and Cu/Zn brass alloy nanoparticles from metal amidinate precursors in ionic liquids or propylene carbonate with relevance to methanol synthesis. <i>Nanoscale</i> , <b>2014</b> , 6, 3116-26	7.7	73
523	Hierarchical MOF-xerogel monolith composites from embedding MIL-100(Fe,Cr) and MIL-101(Cr) in resorcinol-formaldehyde xerogels for water adsorption applications. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 215, 143-153	5.3	73
522	Ethene Polymerization Activity and Coordination Gap Aperture in non-ansa Alkyl-substituted Cyclopentadienyl- and Phospholyl-zirconium/MAO Catalysts. <i>Chemische Berichte</i> , <b>1996</b> , 129, 1517-1529		73
521	A homochiral vanadium-salen based cadmium bpdc MOF with permanent porosity as an asymmetric catalyst in solvent-free cyanosilylation. <i>Chemical Communications</i> , <b>2016</b> , 52, 1401-4	5.8	72
520	A metal-organic framework for efficient water-based ultra-low-temperature-driven cooling. <i>Nature Communications</i> , <b>2019</b> , 10, 3025	17.4	72
519	Borane Activators for Late-Transition Metal Catalysts in Norbornene Polymerization. <i>Macromolecular Rapid Communications</i> , <b>2002</b> , 23, 16-20	4.8	72
518	Effects of Nitrogen Substitution in Poly(Pyrazolyl)Borato Ligands: From Orbital Energy Levels to C-H...O Hydrogen Bonding. <i>Chemistry - A European Journal</i> , <b>1996</b> , 2, 992-1000	4.8	72
517	Homochiral lanthanoid(III) mesoxalate metal-organic frameworks: synthesis, crystal growth, chirality, magnetic and luminescent properties. <i>CrystEngComm</i> , <b>2012</b> , 14, 2635	3.3	71
516	Decabenzylgermanocen, -stannocen und -plumbocen. Synthese und Struktur von luftstabilen Metallocenen der 4. Hauptgruppe des Periodensystems der Elemente. <i>Chemische Berichte</i> , <b>1986</b> , 119, 2656-2667		70
515	Decaphenylgermanocen, -stannocen und -plumbocen sowie Pentaphenylstannocen: Synthese, Eigenschaften und CP/MAS-Metall-NMR-Messungen. <i>Chemische Berichte</i> , <b>1988</b> , 121, 1745-1751		70
514	A chiral C3-symmetric hexanuclear triangular-prismatic copper(II) cluster derived from a highly modular dipeptidic N,N'-terephthaloyl-bis(S-aminocarboxylato) ligand. <i>CrystEngComm</i> , <b>2008</b> , 10, 461	3.3	69
513	Dinuclear Nickel(II) and Palladium(II) Complexes in Combination with Different Co-Catalysts as Highly Active Catalysts for the Vinyl/Addition Polymerization of Norbornene. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2003</b> , 58, 1152-1164	1	69
512	Tetrahedral anion cage: self-assembly of a (PO4)4L4 complex from a tris(bisurea) ligand. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5096-100	16.4	68
511	Can a single C-H...F hydrogen bond make a difference? Assessing the H...F bond strength from 2-D 1H-19F CP/MAS NMR. <i>CrystEngComm</i> , <b>2006</b> , 8, 662-665	3.3	68

- 510 Two linkers are better than one: enhancing CO<sub>2</sub> capture and separation with porous covalent triazine-based frameworks from mixed nitrile linkers. *Journal of Materials Chemistry A*, **2017**, 5, 3609-3620 13 66
- 509 Thallium(I) complexes with modified poly(pyrazolyl)borate ligands—metal-ligand coordination and crystal packing. *Polyhedron*, **2002**, 21, 553-562 2.7 66
- 508 A highly stable dimethyl-functionalized Ce(IV)-based UiO-66 metal-organic framework material for gas sorption and redox catalysis. *CrystEngComm*, **2016**, 18, 7855-7864 3.3 66
- 507 Pro-apoptotic and immunostimulatory tetrahydroxanthone dimers from the endophytic fungus *Phomopsis longicolla*. *Journal of Organic Chemistry*, **2013**, 78, 12409-25 4.2 65
- 506 Transition-Metal Complexes with the Novel Poly (1,2,4-triazolyl)borate Ligands [HnB(C<sub>2</sub>H<sub>2</sub>N<sub>3</sub>)<sub>4</sub>]<sub>n</sub> [(n = 1 and 2): Synthesis and Characterization of Metal Complexes of Dihydrobis(1,2,4-triazolyl)borate as One- or Two-Dimensional Coordination Polymers with Six-Membered Ring Water Substructures and the Structure of Two-Dimensional Liquid and Solid Metal-organic frameworks in Germany: From synthesis to function. *Coordination Chemistry Reviews*, **2019**, 380, 378-418, **1995**, 128, 235-244 23.2 65
- 505 A practical guide to calculate the isosteric heat/enthalpy of adsorption via adsorption isotherms in metal-organic frameworks, MOFs. *Dalton Transactions*, **2020**, 49, 10295-10307 4.3 64
- 504 Ethanol adsorption onto metal organic framework: Theory and experiments. *Energy*, **2015**, 79, 363-370 7.9 64
- 502 Metal Complexes for the Vinyl Addition Polymerization of Norbornene: New Compound Classes and Activation Mechanism with B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>/AlEt<sub>3</sub>. *Macromolecular Symposia*, **2006**, 236, 88-99 0.8 64
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