

# Xiaoping Wang

## List of Publications by Citations

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203  
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224  
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7,158  
ext. citations

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L-index

#	Paper	IF	Citations
203	Fluorous metal-organic frameworks with superior adsorption and hydrophobic properties toward oil spill cleanup and hydrocarbon storage. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 18094-7	16.4	351
202	Fluorous metal-organic frameworks for high-density gas adsorption. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15454-5	16.4	296
201	Metal-Organic Frameworks Based on Double-Bond-Coupled Di-Isophthalate Linkers with High Hydrogen and Methane Uptakes. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3145-3152	9.6	231
200	Crystallographic observation of dynamic gas adsorption sites and thermal expansion in a breathable fluorous metal-organic framework. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 2500-5	16.4	179
199	Strong electronic couplings between ferrocenyl centers mediated by bis-ethynyl/butadiynyl diruthenium bridges. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13354-63	16.4	146
198	Quantitative analysis of intermolecular interactions in orthorhombic rubrene. <i>IUCrJ</i> , <b>2015</b> , 2, 563-74	4.7	145
197	Linear Tricobalt Compounds with Di(2-pyridyl)amide (dpa) Ligands: Temperature Dependence of the Structural and Magnetic Properties of Symmetrical and Unsymmetrical Forms of Co <sub>3</sub> (dpa) <sub>4</sub> Cl <sub>2</sub> in the Solid State. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 6226-6236	16.4	127
196	Further Study of the Linear Trinickel(II) Complex of Dipyridylamide. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 2655-2657	16.4	117
195	Molecular and electronic structures by design: tuning symmetrical and unsymmetrical linear trichromium chains. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7082-96	16.4	116
194	Diastereoselective cycloreductions and cycloadditions catalyzed by Co(dpm)(2)-silane (dpm = 2,2,6,6-tetramethylheptane-3,5-dionate): mechanism and partitioning of hydrometallative versus anion radical pathways. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 9448-53	16.4	116
193	Oxidation of Ni <sub>3</sub> (dpa) <sub>4</sub> Cl <sub>2</sub> and Cu <sub>3</sub> (dpa) <sub>4</sub> Cl <sub>2</sub> : nickel-nickel bonding interaction, but no copper-copper bonds. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 2418-27	5.1	107
192	Molecular squares with paramagnetic diruthenium corners: synthetic and crystallographic challenges. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 10327-34	16.4	107
191	A New Linear Tricobalt Compound with Di(2-pyridyl)amide (dpa) Ligands: Two-Step Spin Crossover of [Co <sub>3</sub> (dpa) <sub>4</sub> Cl <sub>2</sub> ][BF <sub>4</sub> ]. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2272-2278	16.4	99
190	Heterolytic cleavage of hydrogen by an iron hydrogenase model: an Fe-H...H-N dihydrogen bond characterized by neutron diffraction. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 5300-4	16.4	97
189	Kinetics of Methane Hydrate Formation from Polycrystalline Deuterated Ice. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 7304-7309	2.8	94
188	Modifying electronic communication in dimolybdenum units by linkage isomers of bridged oxamidate dianions. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13564-75	16.4	89
187	[Cu <sub>32</sub> (H) <sub>20</sub> {S <sub>2</sub> P(OiPr) <sub>2</sub> }] <sub>12</sub> : The Largest Number of Hydrides Recorded in a Molecular Nanocluster by Neutron Diffraction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8369-74	4.8	85

186	Diselenophosphate-Induced Conversion of an Achiral [Cu <sub>20</sub> H <sub>11</sub> {S <sub>2</sub> P(OiPr) <sub>2</sub> } <sub>9</sub> ] into a Chiral [Cu <sub>20</sub> H <sub>11</sub> {Se <sub>2</sub> P(OiPr) <sub>2</sub> } <sub>9</sub> ] Polyhydrido Nanocluster. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13604-8	16.4	74
185	Orientation of Organic Cations in Hybrid Inorganic/Organic Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from Subatomic Resolution Single Crystal Neutron Diffraction Structural Studies. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 2945-2951	3.5	73
184	A calix[4]arene carceplex with four Rh <sup>2+</sup> 4+ fasteners. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 1518-25	16.4	71
183	Modeling spin interactions in a cyclic trimer and a cuboidal Co <sub>4</sub> O <sub>4</sub> core with Co(II) in tetrahedral and octahedral environments. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4895-902	16.4	69
182	Tuning the metal-metal bonds in the linear tricobalt compound Co <sub>3</sub> (dpa) <sub>4</sub> Cl <sub>2</sub> : bond-stretch and spin-state isomers. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 1256-64	5.1	68
181	New linear tricobalt complex of di(2-pyridyl)amide (dpa), [Co <sub>3</sub> (dpa) <sub>4</sub> (CH <sub>3</sub> CN) <sub>2</sub> ][PF <sub>6</sub> ] <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 3065-70	5.1	67
180	Integration of neutron time-of-flight single-crystal Bragg peaks in reciprocal space. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 915-921	3.8	65
179	Compounds with symmetrical tricobalt chains wrapped by dipyridylamide ligands and cyanide or isothiocyanate ions as terminal ligands. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 1265-70	5.1	65
178	A large-surface-area boracite-network-topology porous MOF constructed from a conjugated ligand exhibiting a high hydrogen uptake capacity. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 7519-21	5.1	62
177	Enhancing the stability of trinickel molecular wires and switches: Ni <sup>(3)(6+)</sup> /Ni <sup>(3)(7+)</sup> . <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 3595-601	5.1	60
176	Transition metal (Mn, Co) and zinc formamidinate compounds having the basic beryllium acetate structure, and unique isomeric iron compounds. <i>Inorganica Chimica Acta</i> , <b>1997</b> , 266, 91-102	2.7	57
175	Di- and trinuclear complexes with the mono- and dianion of 2,6-bis(phenylamino)pyridine: high-field displacement of chemical shifts due to the magnetic anisotropy of quadruple bonds. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 2778-84	5.1	54
174	A concise approach to the synthesis of opp-dibenzoporphyrins through the Heck reaction. <i>Organic Letters</i> , <b>2009</b> , 11, 4251-3	6.2	53
173	Cu(HCO <sub>2</sub> ) <sub>2</sub> L {L = pyrazine, 4,4'-bipyridine}: employing the formate anion as a building block in three-dimensional coordination polymers. <i>Dalton Transactions</i> , <b>2003</b> , 2905-2911	4.3	53
172	Adsorption and molecular siting of CO, water, and other gases in the superhydrophobic, flexible pores of FMOF-1 from experiment and simulation. <i>Chemical Science</i> , <b>2017</b> , 8, 3989-4000	9.4	51
171	Neutron diffraction studies of a four-coordinated hydride in near square-planar geometry. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 11140-5	5.1	51
170	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	51
169	CrystalPlan: an experiment-planning tool for crystallography. <i>Journal of Applied Crystallography</i> , <b>2011</b> , 44, 418-423	3.8	51

- 168 Chiral organometallic triangles with Rh-Rh bonds. 2. Compounds prepared from enantiopure cis-Rh<sub>2</sub>(C<sub>6</sub>H<sub>4</sub>PPh<sub>2</sub>)<sub>2</sub>(OAc)<sub>2</sub>(HOAc)<sub>2</sub> and their catalytic potentials. *Inorganic Chemistry*, **2005**, 44, 8223-33<sup>5.1</sup> 50
- 167 Chiral organometallic triangles with Rh-Rh bonds. 1. Compounds prepared from racemic cis-Rh<sub>2</sub>(C<sub>6</sub>H<sub>4</sub>PPh<sub>2</sub>)<sub>2</sub>(OAc)<sub>2</sub>. *Inorganic Chemistry*, **2004**, 43, 8394-403 5.1 50
- 166 Searching for precursors to metal-metal bonded dipalladium species: a study of Pd<sub>2</sub>(4+) complexes. *Inorganic Chemistry*, **2005**, 44, 6129-37 5.1 48
- 165 A chain of five chromium(II) atoms: a desired compound with an undesired, unsurprising, but important structure. *Journal of the Chemical Society Dalton Transactions*, **1999**, 517-518 48
- 164 Structural and magnetic evidence concerning spin crossover in formamidinate compounds with ru<sub>2</sub> 5+ cores. *Journal of the American Chemical Society*, **2005**, 127, 5008-9 16.4 47
- 163 Extended metal atom chains (EMACs) of five chromium or cobalt atoms: symmetrical or unsymmetrical?. *Dalton Transactions*, **2004**, 2297-302 4.3 46
- 162 Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. *Advanced Materials*, **2018**, 30, e1705801<sup>24</sup> 45
- 161 Structural studies of formamidine compounds: from neutral to anionic and cationic species. *Polyhedron*, **1997**, 16, 541-550 2.7 45
- 160 Homologues of the easily ionized compound Mo<sub>2</sub>(hpp)<sub>4</sub> containing smaller bicyclic guanidinate. *Inorganic Chemistry*, **2006**, 45, 5493-500 5.1 44
- 159 Time-resolved in situ neutron diffraction studies of gas hydrate: transformation of structure II (sII) to structure I (sI). *Journal of the American Chemical Society*, **2001**, 123, 12826-31 16.4 44
- 158 Strong electronic coupling between dimolybdenum units linked by the N,N'-dimethyloxamidate anion in a molecule having a heteronaphthalene-like structure. *Journal of the American Chemical Society*, **2004**, 126, 14822-31 16.4 43
- 157 Linear Tricobalt Compounds with Di-(2-pyridyl)amide (dpa) Ligands: Studies of the Paramagnetic Compound Co<sub>3</sub>(dpa)<sub>4</sub>Cl<sub>2</sub> in Solution. *Inorganic Chemistry*, **1999**, 38, 6294-6297 5.1 43
- 156 New chemistry of the triply bonded divanadium (V<sub>2</sub> 4+) unit and reduction to an unprecedented V<sub>2</sub> 3+ core. *Inorganic Chemistry*, **2003**, 42, 6063-70 5.1 42
- 155 Cleavage of Formamidinate Ligands on a Ta-Ta Double Bond: Formation of H<sub>x</sub>CNAryl (x= 0 and 1) and Arylimido-Bridged Complexes. *Inorganic Chemistry*, **1997**, 36, 896-901 5.1 41
- 154 Fully localized mixed-valence oxidation products of molecules containing two linked dimolybdenum units: an effective structural criterion. *Journal of the American Chemical Society*, **2003**, 125, 12945-52 16.4 41
- 153 Metal-metal bonding in mixed valence Ni<sub>2</sub>(5+) complexes and spectroscopic evidence for a Ni<sub>2</sub>(6+) species. *Inorganic Chemistry*, **2006**, 45, 4396-406 5.1 40
- 152 Can crystal structure determine molecular structure? For Co<sub>3</sub>(dpa)<sub>4</sub>Cl<sub>2</sub>, yes. *Journal of the Chemical Society Dalton Transactions*, **1999**, 3327-3328 40
- 151 From end-on coordination of acetonitrile molecule to crosswise bridging ; formation of iminophosphinoacetamidate ligands in a dimolybdenum complex by further reactions with nucleophiles. *Polyhedron*, **1998**, 17, 2781-2793 2.7 39

150	Proof of large positive zero-field splitting in a Ru <sub>2</sub> 5+ paddlewheel. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12691-6	16.4	39
149	Facilitating access to the most easily ionized molecule: an improved synthesis of the key intermediate, W <sub>2</sub> (hpp) <sub>4</sub> Cl <sub>2</sub> , and related compounds. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 201-13	5.1	39
148	Paramagnetic precursors for supramolecular assemblies: selective syntheses, crystal structures, and electrochemical and magnetic properties of Ru <sub>2</sub> (O <sub>2</sub> CMe) <sub>4-n</sub> (formamidinate) <sub>n</sub> Cl complexes, n = 1-4. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 8290-300	5.1	38
147	Resolving conformational ambiguities in M <sub>2</sub> (hpp) <sub>4</sub> Cl <sub>2</sub> paddlewheel compounds: M=Mo, W, Re, Ru, Os, Ir, Pd, Pt. <i>Inorganica Chimica Acta</i> , <b>2003</b> , 351, 191-200	2.7	38
146	REMGa <sub>3</sub> Ge and RE <sub>3</sub> Ni <sub>3</sub> Ga <sub>8</sub> Ge <sub>3</sub> (M = Ni, Co; RE = rare-earth element): new intermetallics synthesized in liquid gallium. X-ray, electron, and neutron structure determination and magnetism. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6412-24	5.1	38
145	Getting the right answer to a key question concerning molecular wires. <i>Chemical Communications</i> , <b>1999</b> , 2461-2462	5.8	36
144	Dimolybdenum-containing molecular triangles and squares with diamidate linkers: structural diversity and complexity. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 2619-26	5.1	35
143	X-ray and Neutron Structure Determination and Magnetic Properties of New Quaternary Phases RE <sub>0.67</sub> Ni <sub>2</sub> Ga <sub>5+n-x</sub> Ge <sub>x</sub> and RE <sub>0.67</sub> Ni <sub>2</sub> Ga <sub>5+n-x</sub> Si <sub>x</sub> (n = 0, 1; RE = Y, Sm, Gd, Tb, Dy, Ho, Er, Tm) Synthesized in Liquid Ga. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 3066-3081	9.6	35
142	Reciprocal Salt Flux Growth of LiFePO <sub>4</sub> Single Crystals with Controlled Defect Concentrations. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4574-4584	9.6	34
141	The first structurally confirmed paddlewheel compound with an M <sub>2</sub> (7+) core: [Os <sub>2</sub> (hpp) <sub>4</sub> Cl <sub>2</sub> ](PF <sub>6</sub> ). <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 670-2	5.1	34
140	Lattice dynamics and the nature of structural transitions in organolead halide perovskites. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	34
139	Hydrogenation of $\pi$ -Heteroarenes Using Rhodium Precatalysts: Reductive Elimination Leads to Formation of Multimetallic Clusters. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17900-17908	16.4	33
138	Paramagnetism at ambient temperature, diamagnetism at low temperature in a Ru <sub>2</sub> (6+) core: structural evidence for zero-field splitting. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 8373-8	5.1	33
137	Isolation of the new cubic phases RE <sub>4</sub> FeGa(12-x)Ge(x) (RE = Sm, Tb; x = 2.5) from molten gallium: single-crystal neutron diffraction study of the Ga/Ge distribution. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 6056-61 <sup>5.1</sup>	5.1	33
136	Structural and magnetic properties of Co <sub>3</sub> (dpa) <sub>4</sub> Br <sub>2</sub> . <i>Dalton Transactions RSC</i> , <b>2001</b> , 386-391		33
135	nido-Metalloborane Complexes: Synthesis and Structural Characterization of $\eta^5$ -Hexahydrodiboratotetrakis(N,N-diarylformamidinato)ditantalum(III), Aryl = p-Tolyl and Phenyl. The First Structurally Characterized Complexes Containing the $\eta^5$ -B <sub>2</sub> H <sub>6</sub> 2- Ligand. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 4830-4833	16.4	33
134	Structure symmetry determination and magnetic evolution in Sr <sub>2</sub> Ir <sub>1-x</sub> Rh <sub>x</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	32
133	Steps on the way to the first dirhodium tetracarboxylate with no axial ligation: synthetic lessons and a plethora of Rh <sub>2</sub> (O <sub>2</sub> CR) <sub>4</sub> L <sub>2</sub> B compounds, n=0, 1, 2. <i>Inorganica Chimica Acta</i> , <b>2002</b> , 337, 233-246	2.7	32

- 132 Free H<sub>2</sub> rotation vs Jahn-Teller constraints in the nonclassical trigonal (TPB)Co-H<sub>2</sub> complex. *Journal of the American Chemical Society*, **2014**, 136, 14998-5009 16.4 31
- 131 Dinuclear and heteropolynuclear complexes containing Mo<sub>2</sub>(4+) units. *Inorganic Chemistry*, **2001**, 40, 420-6 5.1 31
- 130 Metal-assisted unorthodox reactions of formamidines: coupling, cleavage and insertions. *Polyhedron*, **1997**, 16, 1177-1191 2.7 30
- 129 How small variations in crystal interactions affect macroscopic properties. *Journal of the American Chemical Society*, **2007**, 129, 12666-7 16.4 30
- 128 On the Chemistry and Physical Properties of Flux and Floating Zone Grown SmB<sub>6</sub> Single Crystals. *Scientific Reports*, **2016**, 6, 20860 4.9 29
- 127 Molecular and electronic structure of cyclic trinuclear gold(I) carbenate complexes: insights for structure/luminescence/conductivity relationships. *Inorganic Chemistry*, **2014**, 53, 7485-99 5.1 29
- 126 A hardwon dirhodium paddlewheel with guanidinate type (hpp) bridging ligands. *Dalton Transactions*, **2005**, 3713-5 4.3 29
- 125 Direct observation of eta 2-imine formation through beta-H abstraction between amide ligands. Neutron and X-ray diffraction structure of a dihydride imine ditantalum complex. *Chemical Communications*, **2002**, 230-1 5.8 29
- 124 Synthesis, spectroscopic properties, and photoconductivity of black absorbers consisting of pt(bipyridine)(dithiolate) charge transfer complexes in the presence and absence of nitrofluorenone acceptors. *Journal of the American Chemical Society*, **2014**, 136, 16185-200 16.4 28
- 123 Microdomain dynamics in single-crystal BaTiO<sub>3</sub> during paraelectric-ferroelectric phase transition measured with time-of-flight neutron scattering. *Physical Review B*, **2015**, 92, 3.3 28
- 122 Crystallographic Observation of Dynamic Gas Adsorption Sites and Thermal Expansion in a Breathable Fluorous Metal-Organic Framework. *Angewandte Chemie*, **2009**, 121, 2538-2543 3.6 28
- 121 Trapping tetramethoxyzincate and -cobaltate(II) between Mo<sub>2</sub><sup>4+</sup> units. *Inorganic Chemistry*, **2003**, 42, 4619-23 5.1 28
- 120 Structural investigation of the bilayer iridate Sr<sub>3</sub>Ir<sub>2</sub>O<sub>7</sub>. *Physical Review B*, **2016**, 93, 3.3 27
- 119 High-resolution neutron crystallographic studies of the hydration of the coenzyme cob(II)alamin. *Acta Crystallographica Section D: Biological Crystallography*, **2011**, 67, 584-91 27
- 118 Strong reducing agents containing dimolybdenum Mo<sub>2</sub>(4+) units and their oxidized cations with Mo<sub>2</sub>(5+/6+) cores stabilized by bicyclic guanidinate anions with a seven-membered ring. *Dalton Transactions*, **2006**, 4623-31 4.3 27
- 117 Solution (31)P NMR Study of the Acid-Catalyzed Formation of a Highly Charged {U<sub>24</sub>Pp<sub>12</sub>} Nanocluster, [(UO<sub>2</sub>)<sub>24</sub>(O<sub>2</sub>)<sub>24</sub>(P<sub>2</sub>O<sub>7</sub>)<sub>12</sub>](48-), and Its Structural Characterization in the Solid State Using Single-Crystal Neutron Diffraction. *Journal of the American Chemical Society*, **2016**, 138, 8547-53 16.4 26
- 116 Better understanding of the species with the shortest Re<sub>2</sub>(6+) bonds and related Re<sub>2</sub>(7+) species with tetraguanidinate paddlewheel structures. *Inorganic Chemistry*, **2007**, 46, 1718-26 5.1 26
- 115 Synthesis and reactivity of a very strong reducing agent containing a quadruple bond: structures of W<sub>2</sub>(hpp)<sub>4</sub> and W<sub>2</sub>(hpp)<sub>4</sub>Cl<sub>2</sub>·CH<sub>2</sub>Cl<sub>2</sub>. *Inorganic Chemistry Communication*, **2003**, 6, 121-126 3.1 26

114	Structural modulations and magnetic properties of off-stoichiometric Ni-Mn-Ga magnetic shape memory alloys. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	25
113	Trinuclear complexes of copper, cobalt and iron with N,N'-di(2-pyridyl) formamidinate ligands, [M <sub>3</sub> (DPyF) <sub>4</sub> ][PF <sub>6</sub> ] <sub>2</sub> . <i>Inorganic Chemistry Communication</i> , <b>1998</b> , 1, 281-283	3.1	23
112	Metal Control of the Reaction Site in Reactions of $[(\eta\text{-C}_5\text{H}_3)_2(\text{SiMe}_2)_2\text{M}_2(\text{CO})_4(\text{EH})]^+$ (M = Fe, Ru, Os) with Nucleophilic Amines. <i>Organometallics</i> , <b>2002</b> , 21, 3292-3296	3.8	23
111	Increasing the solubility of strong reducing agents containing Mo(2)(4+) units and alkyl-substituted guanidinate ligands. <i>Dalton Transactions</i> , <b>2007</b> , 3943-51	4.3	22
110	A suite-level review of the neutron single-crystal diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 092802	1.7	22
109	A mixed-valence compound with one unpaired electron delocalized over four molybdenum atoms in a cyclic tetranuclear ion. <i>Chemical Communications</i> , <b>2003</b> , 2190-1	5.8	21
108	Low-Valent Ditantalum Complex Ta <sub>2</sub> (EBH <sub>3</sub> )(Edmpm) <sub>3</sub> (D-BH <sub>4</sub> ) <sub>2</sub> : First Dinuclear Compound Containing a Bridging BH <sub>3</sub> Group with Direct Ta-B Bonds. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 9594-9599	16.4	21
107	Thermodynamic and kinetic studies of H and N binding to bimetallic nickel-group 13 complexes and neutron structure of a Ni(EH) adduct. <i>Chemical Science</i> , <b>2019</b> , 10, 7029-7042	9.4	20
106	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4943-4947	16.4	20
105	Expanding Lorentz and spectrum corrections to large volumes of reciprocal space for single-crystal time-of-flight neutron diffraction. <i>Journal of Applied Crystallography</i> , <b>2016</b> , 49, 497-506	3.8	20
104	Synthesis and Characterization of Group 4 Amide Chloride and Amide Imide Complexes. <i>Organometallics</i> , <b>2009</b> , 28, 4269-4275	3.8	19
103	A Wonderful Bond That Wasn't There: Reformulation of a Compound Containing a Ta-Ta Bond without Bridging Ligands as [(Cy <sub>2</sub> N) <sub>2</sub> ClTa(EH)] <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 12449-12450	16.4	19
102	Structural Characterization of Agostic Bonds in Pd-Catalyzed Polymerization. <i>Organometallics</i> , <b>2017</b> , 36, 4099-4102	3.8	18
101	Polyhydrido Copper Nanoclusters with a Hollow Icosahedral Core: [Cu <sub>n</sub> H <sub>n</sub> {E P(OR)} <sub>n</sub> ] (E=S or Se; R=nPr, iPr or iBu). <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 10471-10479	4.8	18
100	Single-Crystal Time-of-Flight Neutron Diffraction and Magic-Angle-Spinning NMR Spectroscopy Resolve the Structure and H and Li Dynamics of the Uranyl Peroxide Nanocluster U. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9676-9683	5.1	18
99	Diselenophosphate-Induced Conversion of an Achiral [Cu <sub>20</sub> H <sub>11</sub> {S <sub>2</sub> P(OiPr) <sub>2</sub> }] <sub>9</sub> into a Chiral [Cu <sub>20</sub> H <sub>11</sub> {Se <sub>2</sub> P(OiPr) <sub>2</sub> }] <sub>9</sub> Polyhydrido Nanocluster. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13808-13812	3.6	18
98	Crystal-to-crystal oxidative deprotonation of a di(micro-hydroxo) to a di(micro-oxo) dimer of dimolybdenum units. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 3245-50	5.1	18
97	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 1065-1089	2.3	18

96	Manipulating magnetism: Ru paddlewheels devoid of axial interactions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9580-9	16.4	17
95	Experimental and Computational Studies of the Isomerization Reactions of Bidentate Phosphine Ligands in Triosmium Clusters: Kinetics of the Rearrangements from Bridged to Chelated Isomers and X-ray Structures of the Clusters Os <sub>3</sub> (CO) <sub>10</sub> (dppbz), 1,1-Os <sub>3</sub> (CO) <sub>10</sub> (dppbzF <sub>4</sub> ), HOs <sub>3</sub> (CO) <sub>9</sub> [Et <sub>2</sub> -P(Ph)(C <sub>6</sub> H <sub>4</sub> -t)C <sub>6</sub> H <sub>4</sub> PPh <sub>2</sub> ], and HOs <sub>3</sub> (CO) <sub>9</sub> [Et <sub>2</sub> -P(Ph)(C <sub>6</sub> H <sub>4</sub> -t)C <sub>6</sub> F <sub>4</sub> PPh <sub>2</sub> ].	3.8	17
94	Preparation of cyclohexene isotopologues and stereoisotopomers from benzene. <i>Nature</i> , <b>2020</b> , 581, 288-293	50.4	16
93	A neutron diffraction study of Cp <sub>2</sub> Ti{(H)2BC <sub>8</sub> H <sub>14</sub> }. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 654, 216-220	2.3	16
92	Improving the accuracy and resolution of neutron crystallographic data by three-dimensional profile fitting of Bragg peaks in reciprocal space. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 1085-1095	5.5	16
91	Copper Clusters Containing Hydrides in Trigonal Pyramidal Geometry. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 2536-2547	5.1	15
90	Quantitative analysis of hydrogen sites and occupancy in deep mantle hydrous wadsleyite using single crystal neutron diffraction. <i>Scientific Reports</i> , <b>2016</b> , 6, 34988	4.9	15
89	Spin density in YTiO <sub>3</sub> : I. Joint refinement of polarized neutron diffraction and magnetic x-ray diffraction data leading to insights into orbital ordering. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	15
88	Ligand substitution behavior of Ru(6)(μ(6)-C)(CO)(17) with unsaturated diphosphines: facile capping of a polyhedral face and photochemically promoted P-C bond cleavage in the cluster Ru(6)(μ(6)-C)(CO)(14)(μ(3)-bpcd). <i>Dalton Transactions</i> , <b>2010</b> , 39, 1620-9	4.3	15
87	Chemically controlled crystal growth of (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> AgInBr <sub>6</sub> . <i>CrystEngComm</i> , <b>2018</b> , 20, 5929-5934	3.3	14
86	Self-assembly of molecular ions via like-charge ion interactions and through-space defined organic domains. <i>Chemical Communications</i> , <b>2017</b> , 53, 10934-10937	5.8	14
85	A compound containing two tantalum atoms in oxidation states separated by six units. <i>Inorganica Chimica Acta</i> , <b>2000</b> , 300-302, 1-6	2.7	14
84	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	14
83	Unexpected formation of a trinuclear complex containing a Ta(IV)-Ta(IV) bond in the reactions of Bu(t)N=Ta(NMe <sub>2</sub> ) <sub>3</sub> with silanes. <i>Chemical Communications</i> , <b>2011</b> , 47, 8685-7	5.8	13
82	A molecular loop with interstitial channels in a chiral environment: exploration of the chemistry of Mo <sup>2+</sup> species with chiral and non-chiral dicarboxylate anions. <i>Dalton Transactions</i> , <b>2003</b> , 4297	4.3	13
81	Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-H...H-N Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5404-5408	3.6	12
80	Isomerization by ligand shuffling along a Cr <sup>2+</sup> unit: further reactions leading to cleavage of a quadruple bond. <i>Dalton Transactions</i> , <b>2003</b> , 3022-3027	4.3	12
79	Spectroscopic Studies of the Magnetic Excitation and Spin-Phonon Couplings in a Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 15846-15857	4.8	11



78	Position Assignment and Oxidation State Recognition of Fe and Co Centers in Heterometallic Mixed-Valent Molecular Precursors for the Low-Temperature Preparation of Target Spinel Oxide Materials. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9574-9584	5.1	11
77	New osmium cluster compounds containing the heterocyclic ligand 2,3-bis-(diphenylphosphino)quinoxaline (dppq): Ligand isomerization and crystal structures of dppq, the isomeric clusters Os <sub>3</sub> (CO) <sub>10</sub> (dppq), and HOs <sub>3</sub> (CO) <sub>9</sub> [E-3-PhP(E-C <sub>6</sub> H <sub>4</sub> )(Ph <sub>2</sub> P)quinoxaline]. <i>Journal of Organometallic Chemistry</i> , <b>2011</b> , 696, 1432-1440	2.3	11
76	Isolation and Structural Elucidation of 15-Nuclear Copper Dihydride Clusters: An Intermediate in the Formation of a Two-Electron Copper Superatom. <i>Small</i> , <b>2021</b> , 17, e2002544	11	11
75	Fast Rotational Diffusion of Water Molecules in a 2D Hydrogen Bond Network at Cryogenic Temperatures. <i>Physical Review Letters</i> , <b>2018</b> , 120, 196001	7.4	10
74	Improving superconductivity in BaFeAs-based crystals by cobalt clustering and electronic uniformity. <i>Scientific Reports</i> , <b>2017</b> , 7, 949	4.9	10
73	Accurate atomic displacement parameters from time-of-flight neutron-diffraction data at TOPAZ. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2014</b> , 70, 679-681	1.7	10
72	CO Substitution in HOs <sub>3</sub> (CO) <sub>10</sub> (EBC <sub>6</sub> H <sub>4</sub> Me-4) by the Diphosphine 4,5-Bis(diphenylphosphino)-4-cyclopentadiene-1,3-dione (bpcd): Structural and DFT Evaluation of the Isomeric Clusters HOs <sub>3</sub> (CO) <sub>8</sub> (bpcd)(EBC <sub>6</sub> H <sub>4</sub> Me-4). <i>Journal of Cluster Science</i> , <b>2012</b> , 23, 685-702	3	10
71	Dialing in Direct Air Capture of CO by Crystal Engineering of Bisiminoguanidines. <i>ChemSusChem</i> , <b>2020</b> , 13, 6381-6390	8.3	10
70	Phosphinoborane-induced fragmentation of the unsaturated hydride H <sub>2</sub> Re <sub>2</sub> (CO) <sub>8</sub> : X-ray structure of HRe(CO) <sub>4</sub> (B,P-Ph <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> BR <sub>2</sub> ) (where BR <sub>2</sub> =D-borabicyclo[3.3.1]nonanyl) and DFT Evaluation of hydride versus CO coordination by the ancillary borane. <i>Journal of Organometallic Chemistry</i> , <b>2012</b> , 700, 103-109	2.3	9
69	Directed Synthesis of the Triangular Mixed-Metal Cluster H <sub>2</sub> RhRe <sub>2</sub> Cp*(CO) <sub>9</sub> : Ligand Fluxionality and Facile Cluster Fragmentation in the Presence of CO, Halogenated Solvents, and Thiols. <i>Organometallics</i> , <b>2010</b> , 29, 61-75	3.8	9
68	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4997-5001	3.6	9
67	Synthesis of Surface-Analogue Square-Planar Tetranuclear Nickel Hydride Clusters and Bonding to ENR, -O and -BH Ligands. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 2438-2446	5.1	9
66	Simultaneous metal-insulator and antiferromagnetic transitions in orthorhombic perovskite iridate Sr <sub>0.94</sub> Ir <sub>0.78</sub> O <sub>2.68</sub> single crystals. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	8
65	LiCaAs <sub>2</sub> H and CaAs <sub>2</sub> X (X = C, H, N): two new arsenide hydride phases grown from Ca/Li metal flux. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 10620-6	5.1	8
64	Nanoscale Atomic Displacements Ordering for Enhanced Piezoelectric Properties in Lead-Free ABO <sub>3</sub> Ferroelectrics. <i>Advanced Materials</i> , <b>2015</b> , 27, 4330-5	24	8
63	New octahedral Ta(V) hydrazido-substituted compounds for atomic layer deposition: Syntheses, X-ray diffraction structures of TaCl(NMe <sub>2</sub> ) <sub>3</sub> [N(TMS)NMe <sub>2</sub> ] and Ta(NMe <sub>2</sub> ) <sub>4</sub> [N(TMS)NMe <sub>2</sub> ], and fluxional behavior of the amido and hydrazido ligands in solution. <i>Polyhedron</i> , <b>2010</b> , 29, 1754-1759	2.7	8
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61	How to make a major shift in a redox potential: ligand control of the oxidation state of dimolybdenum units. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 4232-8	5.1	8

60	Direct air capture of CO <sub>2</sub> - topological analysis of the experimental electron density (QTAIM) of the highly insoluble carbonate salt of a 2,6-pyridine-bis(iminoguanidine), (PyBIGH)(CO)(HO). <i>IUCrJ</i> , <b>2019</b> , 6, 56-65	4.7	8
59	Intermolecular interactions in solid-state metalloporphyrins and their impacts on crystal and molecular structures. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 11552-62	5.1	7
58	Doping-driven structural distortion in the bilayer iridate (Sr <sub>1-x</sub> Lax)3Ir2O7. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
57	Formation of a fluoruous/organic biphasic supramolecular octopus assembly for enhanced porphyrin phosphorescence in air. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4842-6	16.4	7
56	Synthesis, reactivity investigation, and X-ray diffraction structures of new platinum(II) compounds containing redox-active diphosphine ligands. <i>Journal of Molecular Structure</i> , <b>2009</b> , 919, 34-40	3.4	7
55	Determination of hydrogen site and occupancy in hydrous Mg <sub>2</sub> SiO <sub>4</sub> spinel by single-crystal neutron diffraction. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2018</b> , 74, 115-120	1.8	7
54	The neutron diffraction structure of [Ir <sub>4</sub> (Ime) <sub>8</sub> H <sub>10</sub> ] <sup>2+</sup> polyhydride cluster: Testing the computational hydride positional assignments. <i>Journal of Organometallic Chemistry</i> , <b>2017</b> , 849-850, 17-21	2.3	6
53	From the source: student-centred guest lecturing in a chemical crystallography class. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 909-914	3.8	6
52	A remarkable Cr(III) organometallic compound formed by an unprecedented rearrangement of a formamidinate anion. <i>Chemical Communications</i> , <b>2001</b> , 205-206	5.8	6
51	Trivalent mononuclear mer-trichlorotris (pyridine) tantalum (III): preparation and structure in three crystalline forms. <i>Inorganica Chimica Acta</i> , <b>1996</b> , 245, 115-118	2.7	6
50	Emergence of topologically protected states in the MoTe <sub>2</sub> Weyl semimetal with layer-stacking order. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	5
49	Manganese tetraphenylporphyrin bromide and iodide. Studies of structures and magnetic properties. <i>Polyhedron</i> , <b>2020</b> , 184, 114488	2.7	5
48	Synthesis and Structural Features of [4,4'-Diisopropoxyester-2,2'-bipyridine], [Dichloro(4,4'-diisopropoxyester-2,2'-bi-pyridine)-platinum(ii)] and Its Dichloromethane Solvated Pseudo-Polymorph: Versatile Supramolecular Interactions. <i>Journal of Chemical Crystallography</i> , <b>2015</b> , 45, 277-283	0.5	5
47	Allyl Ligand Reactivity in Tantalum(V) Compounds: Experimental and Computational Evidence for Allyl Transfer to the Formamidinate Ligand fac-Ta(NMe <sub>2</sub> ) <sub>3</sub> (η <sup>3</sup> -allyl)[iPrNC(H)NiPr] via a Metallo-Claisen Rearrangement. <i>Organometallics</i> , <b>2011</b> , 30, 5832-5843	3.8	5
46	Isomerization of the diphosphine ligand 3,4-bis(diphenylphosphino)-5-methoxy-2(5H)-furanone (bmf) at a triosmium cluster and P-C bond cleavage in the unsaturated cluster 1,1-Os <sub>3</sub> (CO) <sub>9</sub> (bmf): Synthesis and X-ray diffraction structures of the isomeric Os <sub>3</sub> (CO) <sub>10</sub> (bmf) clusters and	2.7	5
45	Os <sub>3</sub> (CO) <sub>18</sub> (EC <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> [PhPCC(Ph <sub>2</sub> P)CH(OMe)OC(O)]. <i>Polyhedron</i> , <b>2010</b> , 29, 2814-2821 New platinum compounds containing the diphosphine ligand 2-(ferrocenylidene)-4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (fbpcd): Synthesis, redox behavior, and X-ray diffraction structures of PtCl <sub>2</sub> (fbpcd) and Pt(mnt)(fbpcd). <i>Polyhedron</i> , <b>2008</b> , 27, 3693-3699	2.7	5
44	On single-crystal neutron-diffraction in DACs: quantitative structure refinement of light elements on SNAP and TOPAZ. <i>High Pressure Research</i> , <b>2020</b> , 40, 339-357	1.6	5
43	Reorientation of antiferromagnetism in cobalt doped FeSn. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5

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41	Antiferroelectric Phase Transition in a Proton-Transfer Salt of Squaric Acid and 2,3-Dimethylpyrazine. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16279-16287	16.4	4
40	Chloride Metathesis and Dimethylamide Transfer in the Reaction of TaCl(NMe <sub>2</sub> ) <sub>4</sub> with ZnMe <sub>2</sub> and MeMgCl: Spectroscopic Studies and X-ray Diffraction Structures of TaCl(Me)(NMe <sub>2</sub> ) <sub>3</sub> and ZnCl <sub>2</sub> (NHMe <sub>2</sub> ) <sub>2</sub> . <i>Journal of Chemical Crystallography</i> , <b>2010</b> , 40, 173-178	0.5	4
39	Neutron and X-ray investigations of the Jahn-Teller switch in partially deuterated ammonium copper Tutton salt, (NH <sub>4</sub> ) <sub>2</sub> [Cu(H <sub>2</sub> O) <sub>6</sub> ](SO <sub>4</sub> ) <sub>2</sub> . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2017</b> , 73, 87-93	1.8	3
38	Synthesis, structure, and physical properties of Ln(Cu,Al,Ga)(13-x) (Ln = La-Pr, and Eu) and Eu(Cu,Al)(13-x). <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 10193-202	5.1	3
37	Tetra-pyrazine-platinum(II) bis-(tetra-fluoro-borate) acetonitrile hemisolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 64, m1449		3
36	The incommensurately modulated structures of volcanic plagioclase: displacement, ordering and phase transition. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2019</b> , 75, 643-656	1.8	3
35	Quantum liquid from strange frustration in the trimer magnet Ba <sub>4</sub> Ir <sub>3</sub> O <sub>10</sub> . <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	3
34	Au-to-Ag coordinate-covalent bonding and other supramolecular interactions with covalent bonding strength. <i>Chemical Science</i> , <b>2020</b> , 11, 11179-11188	9.4	3
33	Electro-Optic Modulation Using Metal-Free Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19042-19047	9.5	3
32	Aggregation-induced phosphorescence sensitization in two heptanuclear and decanuclear gold-silver sandwich clusters. <i>Chemical Science</i> , <b>2020</b> , 12, 702-708	9.4	3
31	Time filtering of event based neutron scattering data: A pathway to study the dynamic structural responses of materials. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 092803	1.7	3
30	Synthesis of the Stereoisomeric Clusters 1,2-Os <sub>3</sub> (CO) <sub>10</sub> (trans-dpmn) and 1,2-Os <sub>3</sub> (CO) <sub>10</sub> (cis-dpmn) [where dpmn = 2,3-bis(diphenylphosphinomethyl)-5-norbornene]: DFT Evaluation of the Isomeric Clusters 1,2-Os <sub>3</sub> (CO) <sub>10</sub> (dpmn) and Isomer-Dependent Diphosphine Ligand Activation. <i>Journal of Cluster Science</i> , <b>2015</b> , 26, 93-109	3	2
29	Syntheses, Spectroscopic Data, and X-ray Diffraction Structures of the Heterometallic RuRe Face-shared Biocuboidal ( $\eta$ -cymene)Ru(ECl) <sub>3</sub> Re(CO) <sub>3</sub> and MnRu <sub>2</sub> Edge-shared Triocuboidal [fac-ClRu(CO) <sub>3</sub> ] <sub>2</sub> (ECl) <sub>4</sub> Mn(H <sub>2</sub> O) <sub>2</sub> Complexes. <i>Journal of Chemical Crystallography</i> , <b>2009</b> , 39, 589-594	0.5	2
28	Diimine Ligand Coordination and C-H Bond Activation in the Reaction of Os <sub>3</sub> (CO) <sub>10</sub> (MeCN) <sub>2</sub> with 6-R-2,2'-Bipyridine (where R = Et, Ph): X-ray Diffraction Structures of the Ortho-Metalated Hydride Clusters HOs <sub>3</sub> (CO) <sub>9</sub> (N <sub>2</sub> C <sub>10</sub> H <sub>6</sub> -6-R). <i>Journal of Chemical Crystallography</i> , <b>2009</b> , 39, 820-826	0.5	2
27	Preparation and reactivity of the heterobimetallic ReIr face-shared biocuboidal compounds Cp*Ir(ECl) <sub>3</sub> Re(CO) <sub>3</sub> and Cp*Ir( $\eta$ -C <sub>6</sub> H <sub>4</sub> Me-4) <sub>3</sub> Re(CO) <sub>3</sub> : X-ray diffraction structures and redox behavior. <i>Polyhedron</i> , <b>2009</b> , 28, 2294-2300	2.7	2
26	New rhenium(I) compounds containing the donor-acceptor diphosphine ligands 2-(ferrocenylidene)-4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (fbpcd) and 2-(3-ferrocenylprop-2-ynylidene)-4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (fpbpcd): Diphosphine- and CO-induced fragmentation of chloride-bridged dinuclear complex and Cp*Ir(ECl) <sub>3</sub> Re(CO) <sub>3</sub> and attempted synthesis of Cp*Ir(ECl) <sub>3</sub> Mn(CO) <sub>3</sub> : Spectroscopic data and X-ray diffraction structures of the pentamethylcyclopentadienyl compounds [Cp*IrCl{(Z)-Ph <sub>2</sub> PCH=C(CH <sub>3</sub> ) <sub>2</sub> }] <sub>2</sub> (ECl) <sub>2</sub> and Cp*Ir(CO) <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Chemical Crystallography</i> , <b>2010</b> , 40, 153-160	2.7	2
25	Electrochemical behavior, MO properties, and X-ray diffraction structure of fac-[RuRe(CO) <sub>3</sub> ](fbpcd). <i>Polyhedron</i> , <b>2009</b> , 28, 2618-2624	0.5	2

24	New Pt(II)(dithiolate) Compounds Possessing an Energetically Accessible Diphosphine-Based LUMO: Syntheses, Redox Properties, and Solid-State Structures of PtCl <sub>2</sub> (pbpcd), Pt(tdt)(pbpcd), and Pt(tdt)(bpcd). <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2010</b> , 20, 457-467	3.2	2
23	Diimine Chelation at a Triosmium Cluster: Synthesis and X-ray Structure of 1,1-Os <sub>3</sub> (CO) <sub>9</sub> (EO)(1,10-phen). <i>Journal of Chemical Crystallography</i> , <b>2007</b> , 37, 641-644	0.5	2
22	The incommensurately modulated structures of low-temperature labradorite feldspars: a single-crystal X-ray and neutron diffraction study. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2020</b> , 76, 93-107	1.8	2
21	Flux Synthesis of a Metal Carbide Hydride Using Anthracene As a Reactant. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 11651-11657	5.1	2
20	Neutron Diffraction Study of Significant and C-H Bond Shortening in a Fluorinated Pyridinium Saccharinate. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5550-5557	16.4	2
19	Unusual effects of Be doping in the iron-based superconductor FeSe. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 445701	1.8	2
18	Synthesis of the labile rhenium(I) complexes fac-Re(CO) <sub>3</sub> (L)[η <sup>5</sup> -O, <sup>+</sup> O-FcC(O)CHC(O)Me] (where Fc <sup>+</sup> = ferrocenyl; L = THF, H <sub>2</sub> O, alkyne) and alkyne addition to the diketonate ligand. <i>Journal of Organometallic Chemistry</i> , <b>2018</b> , 874, 87-100	2.3	2
17	Transfer of Amide and 2-Methoxyethoxy Groups and Sodium Encapsulation in the Reaction of TaCl <sub>3</sub> [N(TMS) <sub>2</sub> ] <sub>2</sub> with Sodium Bis(2-methoxyethoxy)aluminum Hydride: X-ray Structure of [NaAl{N(TMS) <sub>2</sub> }(OCH <sub>2</sub> CH <sub>2</sub> OMe) <sub>3</sub> ] <sub>2</sub> . <i>Journal of Chemical Crystallography</i> , <b>2009</b> , 39, 428-432	0.5	1
16	Synthesis of the donor-acceptor ligand 2-(4-dimethylaminobenzylidene)-4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (dbpcd) and X-ray diffraction structure of the platinum(II) compound PtCl <sub>2</sub> (dbpcd)·0.5CH <sub>2</sub> Cl <sub>2</sub> . <i>Inorganica Chimica Acta</i> , <b>2010</b> , 363, 418-423	2.7	1
15	A paramagnetic precursor for polymeric supramolecular assemblies based on multiply bonded dimetal units: μ-acetato-acetonitriletris(μ-N,N'-diphenylformamidinato)diruthenium tetrafluoroborate dichloromethane hemisolvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2007</b> , 61, 711-713		1
14	Tetra-μ-acetato-κ <sup>8</sup> O'-bis[(N(1),N2-di-p-anisylformamidine-κ <sup>2</sup> N2)ruthenium(II)](Ru-Ru): an example of an axial bis-adduct of {Ru <sub>2</sub> } <sup>4+</sup> tetracarboxylate with N-donor ligands. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2005</b> , 61, m109-11		1
13	Temperature dependence of the spin state and geometry in tricobalt paddlewheel complexes with halide axial ligands. <i>Dalton Transactions</i> , <b>2018</b> , 47, 16798-16806	4.3	1
12	The high pressure gas capabilities at Oak Ridge National Laboratory's neutron facilities. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 092907	1.7	1
11	Understanding the Reactivity and Decomposition of a Highly Active Iron Pincer Catalyst for Hydrogenation and Dehydrogenation Reactions. <i>ACS Catalysis</i> , <b>2021</b> , 11, 10631-10646	13.1	1
10	Preferential quenching of 5d antiferromagnetic order in Sr(Ir Mn )O. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 244003	1.8	0
9	H-Atom Assignment and Sb-O Bonding of [MesSbOH][OSPh] Confirmed by Neutron Diffraction, Multipole Modeling, and Hirshfeld Atom Refinement. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 16048-16052	5.1	0
8	Operando single crystal neutron diffraction reveals insight into the field response mechanisms in the hydrogen-bonded KH <sub>2</sub> PO <sub>4</sub> ferroelectric. <i>APL Materials</i> , <b>2021</b> , 9, 021111	5.7	0
7	Unexpected Hydride: Ce <sub>4</sub> B <sub>2</sub> C <sub>2</sub> H <sub>2</sub> .42, a Stuffed Variant of the Nd <sub>2</sub> BC Structure Type. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 5164-5171	3.5	0

- 6 Crystal Structure of Hydrazinium Iodide by Neutron Diffraction. *Journal of Chemical Crystallography*, **2017**, 47, 241-244 0.5
- 5 Ferroelectric Materials: Nanoscale Atomic Displacements Ordering for Enhanced Piezoelectric Properties in Lead-Free ABO<sub>3</sub> Ferroelectrics (Adv. Mater. 29/2015). *Advanced Materials*, **2015**, 27, 4329-4329 2.4
- 4 Innenrücktitelbild: Formation of a Fluorous/Organic Biphasic Supramolecular Octopus Assembly for Enhanced Porphyrin Phosphorescence in Air (Angew. Chem. 16/2015). *Angewandte Chemie*, **2015**, 127, 5053-5053 3.6
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- 2 Reactivities of Interstitial Hydrides in a Cu<sub>11</sub> Template: En Route to Bimetallic Clusters. *Angewandte Chemie*, **2022**, 134, e202113266 3.6
- 1 Lattice disorder effect on magnetic ordering of iron arsenides. *Scientific Reports*, **2019**, 9, 20147 4.9