

# Xiaoping Wang

## List of Publications by Year in descending order

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212  
papers

7,873  
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46918

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h-index

69108

77  
g-index

224  
all docs

224  
docs citations

224  
times ranked

8035  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                                                                            | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | 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> , 2011, 133, 18094-18097.                                                                                                  | 6.6 | 411       |
| 2  | Fluorous Metal-Organic Frameworks for High-Density Gas Adsorption. <i>Journal of the American Chemical Society</i> , 2007, 129, 15454-15455.                                                                                                                                                                       | 6.6 | 318       |
| 3  | Metal-Organic Frameworks Based on Double-Bond-Coupled Di-Isophthalate Linkers with High Hydrogen and Methane Uptakes. <i>Chemistry of Materials</i> , 2008, 20, 3145-3152.                                                                                                                                         | 3.2 | 248       |
| 4  | Quantitative analysis of intermolecular interactions in orthorhombic rubrene. <i>IUCr</i> , 2015, 2, 563-574.                                                                                                                                                                                                      | 1.0 | 206       |
| 5  | Crystallographic Observation of Dynamic Gas Adsorption Sites and Thermal Expansion in a Breathable Fluorous Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2500-2505.                                                                                                       | 7.2 | 196       |
| 6  | Strong Electronic Couplings between Ferrocenyl Centers Mediated by Bis-Ethynyl/Butadiynyl Diruthenium Bridges. <i>Journal of the American Chemical Society</i> , 2005, 127, 13354-13363.                                                                                                                           | 6.6 | 153       |
| 7  | Linear Tricobalt Compounds with Di(2-pyridyl)amide (dpa) Ligands: Temperature Dependence of the Structural and Magnetic Properties of Symmetrical and Unsymmetrical Forms of $\text{Co}_3(\text{dpa})_4\text{Cl}_2$ in the Solid State. <i>Journal of the American Chemical Society</i> , 2000, 122, 6226-6236.    | 6.6 | 141       |
| 8  | Diastereoselective Cycloreductions and Cycloadditions Catalyzed by $\text{Co}(\text{dpm})_2$ -Silane (dpm = $\text{Tj ETQqO O O rgBT /Overlock 10 Tf 50 462}$ ) Radical Pathways. <i>Journal of the American Chemical Society</i> , 2002, 124, 9448-9453.                                                          | 6.6 | 134       |
| 9  | Further Study of the Linear Trinickel(II) Complex of Dipyridylamide. <i>Inorganic Chemistry</i> , 1999, 38, 2655-2657.                                                                                                                                                                                             | 1.9 | 132       |
| 10 | Molecular and Electronic Structures by Design: Tuning Symmetrical and Unsymmetrical Linear Trichromium Chains. <i>Journal of the American Chemical Society</i> , 2004, 126, 7082-7096.                                                                                                                             | 6.6 | 126       |
| 11 | $[\text{Cu}_{32}(\text{H})_{20}\{\text{S}_2\text{P}(\text{O}iPr)_2\}_{12}]$ : The Largest Number of Hydrides Recorded in a Molecular Nanocluster by Neutron Diffraction. <i>Chemistry - A European Journal</i> , 2015, 21, 8369-8374.                                                                              | 1.7 | 118       |
| 12 | Molecular Squares with Paramagnetic Diruthenium Corners: Synthetic and Crystallographic Challenges. <i>Journal of the American Chemical Society</i> , 2003, 125, 10327-10334.                                                                                                                                      | 6.6 | 113       |
| 13 | Oxidation of $\text{Ni}_3(\text{dpa})_4\text{Cl}_2$ and $\text{Cu}_3(\text{dpa})_4\text{Cl}_2$ : Nickel-Nickel Bonding Interaction, but No Copper-Copper Bonds. <i>Inorganic Chemistry</i> , 2003, 42, 2418-2427.                                                                                                  | 1.9 | 112       |
| 14 | A New Linear Tricobalt Compound with Di(2-pyridyl)amide (dpa) Ligands: Two-Step Spin Crossover of $[\text{Co}_3(\text{dpa})_4\text{Cl}_2][\text{BF}_4]$ . <i>Journal of the American Chemical Society</i> , 2000, 122, 2272-2278.                                                                                  | 6.6 | 111       |
| 15 | Kinetics of Methane Hydrate Formation from Polycrystalline Deuterated Ice. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7304-7309.                                                                                                                                                                          | 1.1 | 108       |
| 16 | Diselenophosphate-Induced Conversion of an Achiral $[\text{Cu}_{20}\text{H}_{11}\{\text{S}_2\text{P}(\text{O}iPr)_2\}_9]$ into a Chiral $[\text{Cu}_{20}\text{H}_{11}\{\text{Se}_2\text{P}(\text{O}iPr)_2\}_9]$ Polyhydrido Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13604-13608. | 7.2 | 104       |
| 17 | Modifying Electronic Communication in Dimolybdenum Units by Linkage Isomers of Bridged Oxamidate Dianions. <i>Journal of the American Chemical Society</i> , 2003, 125, 13564-13575.                                                                                                                               | 6.6 | 102       |
| 18 | Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An $\text{Fe-H}\cdots\text{H-N}$ Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5300-5304.                                                                                      | 7.2 | 102       |

| #  | ARTICLE                                                                                                                                                                                                                                             | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Integration of neutron time-of-flight single-crystal Bragg peaks in reciprocal space. <i>Journal of Applied Crystallography</i> , 2014, 47, 915-921.                                                                                                | 1.9  | 82        |
| 20 | Orientation of Organic Cations in Hybrid Inorganic-Organic Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ from Subatomic Resolution Single Crystal Neutron Diffraction Structural Studies. <i>Crystal Growth and Design</i> , 2016, 16, 2945-2951. | 1.4  | 82        |
| 21 | New Linear Tricobalt Complex of Di(2-pyridyl)amide (dpa), $[\text{Co}_3(\text{dpa})_4(\text{CH}_3\text{CN})_2][\text{PF}_6]_2$ . <i>Inorganic Chemistry</i> , 2000, 39, 3065-3070.                                                                  | 1.9  | 77        |
| 22 | A Calix[4]arene Carceplex with Four $\text{Rh}^{2+}$ -Fasteners. <i>Journal of the American Chemical Society</i> , 2004, 126, 1518-1525.                                                                                                            | 6.6  | 75        |
| 23 | Modeling Spin Interactions in a Cyclic Trimer and a Cuboidal $\text{Co}_4\text{O}_4$ Core with Co(II) in Tetrahedral and Octahedral Environments. <i>Journal of the American Chemical Society</i> , 2005, 127, 4895-4902.                           | 6.6  | 73        |
| 24 | Tuning the Metal-Metal Bonds in the Linear Tricobalt Compound $\text{Co}_3(\text{dpa})_4\text{Cl}_2$ : $\text{Å}$ Bond-Stretch and Spin-State Isomers. <i>Inorganic Chemistry</i> , 2001, 40, 1256-1264.                                            | 1.9  | 72        |
| 25 | Transition metal (Mn, Co) and zinc formamidinate compounds having the basic beryllium acetate structure, and unique isomeric iron compounds. <i>Inorganica Chimica Acta</i> , 1997, 266, 91-102.                                                    | 1.2  | 68        |
| 26 | Compounds with Symmetrical Tricobalt Chains Wrapped by Dipyridylamide Ligands and Cyanide or Isothiocyanate Ions as Terminal Ligands. <i>Inorganic Chemistry</i> , 2001, 40, 1265-1270.                                                             | 1.9  | 67        |
| 27 | A Concise Approach to the Synthesis of <i>opp</i> -Dibenzoporphyrins through the Heck Reaction. <i>Organic Letters</i> , 2009, 11, 4251-4253.                                                                                                       | 2.4  | 67        |
| 28 | <i>CrystalPlan</i> : an experiment-planning tool for crystallography. <i>Journal of Applied Crystallography</i> , 2011, 44, 418-423.                                                                                                                | 1.9  | 67        |
| 29 | Neutron Diffraction Studies of a Four-Coordinated Hydride in Near Square-Planar Geometry. <i>Inorganic Chemistry</i> , 2014, 53, 11140-11145.                                                                                                       | 1.9  | 67        |
| 30 | A Large-Surface-Area Boracite-Network-Topology Porous MOF Constructed from a Conjugated Ligand Exhibiting a High Hydrogen Uptake Capacity. <i>Inorganic Chemistry</i> , 2009, 48, 7519-7521.                                                        | 1.9  | 66        |
| 31 | Hydrogenation of <i>N</i> -Heteroarenes Using Rhodium Precatalysts: Reductive Elimination Leads to Formation of Multimetallic Clusters. <i>Journal of the American Chemical Society</i> , 2019, 141, 17900-17908.                                   | 6.6  | 65        |
| 32 | Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. <i>Physical Review B</i> , 2014, 90, .                                                                                                                                      | 1.1  | 64        |
| 33 | Enhancing the Stability of Trinickel Molecular Wires and Switches: $\text{Ni}^{36+}/\text{Ni}^{37+}$ . <i>Inorganic Chemistry</i> , 2003, 42, 3595-3601.                                                                                            | 1.9  | 63        |
| 34 | Di- and Trinuclear Complexes with the Mono- and Dianion of 2,6-Bis(phenylamino)pyridine: $\text{Å}$ High-Field Displacement of Chemical Shifts Due to the Magnetic Anisotropy of Quadruple Bonds. <i>Inorganic Chemistry</i> , 2001, 40, 2778-2784. | 1.9  | 60        |
| 35 | Adsorption and molecular siting of $\text{CO}_2$ , water, and other gases in the superhydrophobic, flexible pores of FMOF-1 from experiment and simulation. <i>Chemical Science</i> , 2017, 8, 3989-4000.                                           | 3.7  | 60        |
| 36 | Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. <i>Advanced Materials</i> , 2018, 30, e1705801.                                           | 11.1 | 60        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                           | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Structural studies of formamidine compounds: from neutral to anionic and cationic species. <i>Polyhedron</i> , 1997, 16, 541-550.                                                                                                                                                                                 | 1.0  | 57        |
| 38 | 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> , 2003, , 2905-2911.                                                                                                 | 1.6  | 55        |
| 39 | A chain of five chromium(II) atoms: a desired compound with an undesired, unsurprising, but important structure. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 517-518.                                                                                                                    | 1.1  | 53        |
| 40 | Extended metal atom chains (EMACs) of five chromium or cobalt atoms: Symmetrical or unsymmetrical?. <i>Dalton Transactions</i> , 2004, , 2297.                                                                                                                                                                    | 1.6  | 51        |
| 41 | Chiral Organometallic Triangles with Rh <sup>+</sup> Rh Bonds. 1. Compounds Prepared from Racemic Rh <sub>2</sub> (C <sub>6</sub> H <sub>4</sub> PPh <sub>2</sub> ) <sub>2</sub> (OAc) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2004, 43, 8394-8403.                                                           | 1.9  | 51        |
| 42 | Chiral Organometallic Triangles with Rh <sup>+</sup> 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. <i>Inorganic Chemistry</i> , 2005, 44, 8223-8233. | 1.9  | 51        |
| 43 | Structural and Magnetic Evidence Concerning Spin Crossover in Formamidinate Compounds with Ru <sup>2+</sup> Cores. <i>Journal of the American Chemical Society</i> , 2005, 127, 5008-5009.                                                                                                                        | 6.6  | 51        |
| 44 | Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021, 11, .                                                                                                                                                                                                               | 2.8  | 50        |
| 45 | From end-on coordination of acetonitrile molecule to crosswise bridging ; formation of iminophosphinoacetamidate ligands in a dimolybdenum complex by further reactions with nucleophiles. <i>Polyhedron</i> , 1998, 17, 2781-2793.                                                                               | 1.0  | 49        |
| 46 | Searching for Precursors to Metal <sup>+</sup> Metal Bonded Dipalladium Species: A Study of Pd <sup>2+</sup> Complexes. <i>Inorganic Chemistry</i> , 2005, 44, 6129-6137.                                                                                                                                         | 1.9  | 49        |
| 47 | Preparation of cyclohexene isotopologues and stereoisotopomers from benzene. <i>Nature</i> , 2020, 581, 288-293.                                                                                                                                                                                                  | 13.7 | 49        |
| 48 | 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. <i>Inorganic Chemistry</i> , 1999, 38, 6294-6297.                                                                                         | 1.9  | 48        |
| 49 | Time-Resolved in Situ Neutron Diffraction Studies of Gas Hydrate: Transformation of Structure II (sII) to Structure I (sI). <i>Journal of the American Chemical Society</i> , 2001, 123, 12826-12831.                                                                                                             | 6.6  | 48        |
| 50 | Metal <sup>+</sup> Metal Bonding in Mixed Valence Ni <sup>2+</sup> Complexes and Spectroscopic Evidence for a Ni <sup>3+</sup> Species. <i>Inorganic Chemistry</i> , 2006, 45, 4396-4406.                                                                                                                         | 1.9  | 48        |
| 51 | Cleavage of Formamidinate Ligands on a Ta-Ta Double Bond: Formation of HxCNAr <sub>x</sub> (x= 0 and 1) and Arylimido-Bridged Complexes. <i>Inorganic Chemistry</i> , 1997, 36, 896-901.                                                                                                                          | 1.9  | 47        |
| 52 | Homologues of the Easily Ionized Compound Mo <sub>2</sub> (hpp) <sub>4</sub> Containing Smaller Bicyclic Guanidinate. <i>Inorganic Chemistry</i> , 2006, 45, 5493-5500.                                                                                                                                           | 1.9  | 47        |
| 53 | Strong Electronic Coupling between Dimolybdenum Units Linked by the N,N'-Dimethyloxamidate Anion in a Molecule Having a Heteronaphthalene-like Structure. <i>Journal of the American Chemical Society</i> , 2004, 126, 14822-14831.                                                                               | 6.6  | 46        |
| 54 | Lattice dynamics and the nature of structural transitions in organolead halide perovskites. <i>Physical Review B</i> , 2016, 94, .                                                                                                                                                                                | 1.1  | 46        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                                                                                    | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | 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> , 2004, 43, 8290-8300.                                                                   | 1.9 | 45        |
| 56 | Getting the right answer to a key question concerning molecular wires. <i>Chemical Communications</i> , 1999, , 2461-2462.                                                                                                                                                                                                                                                 | 2.2 | 44        |
| 57 | New Chemistry of the Triply Bonded Divanadium (V <sub>2</sub> <sup>4+</sup> ) Unit and Reduction to an Unprecedented V <sub>2</sub> <sup>3+</sup> Core. <i>Inorganic Chemistry</i> , 2003, 42, 6063-6070.                                                                                                                                                                  | 1.9 | 44        |
| 58 | Fully Localized Mixed-Valence Oxidation Products of Molecules Containing Two Linked Dimolybdenum Units: An Effective Structural Criterion. <i>Journal of the American Chemical Society</i> , 2003, 125, 12945-12952.                                                                                                                                                       | 6.6 | 43        |
| 59 | Reciprocal Salt Flux Growth of LiFePO <sub>4</sub> Single Crystals with Controlled Defect Concentrations. <i>Chemistry of Materials</i> , 2013, 25, 4574-4584.                                                                                                                                                                                                             | 3.2 | 43        |
| 60 | A suite-level review of the neutron single-crystal diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , 2018, 89, 092802.                                                                                                                                                                                                   | 0.6 | 43        |
| 61 | Proof of Large Positive Zero-Field Splitting in a Ru <sup>2+</sup> Paddlewheel. <i>Journal of the American Chemical Society</i> , 2005, 127, 12691-12696.                                                                                                                                                                                                                  | 6.6 | 42        |
| 62 | Structure symmetry determination and magnetic evolution in Sr <sub>2</sub> Ir <sup>x</sup> Rh <sub>x</sub> O <sub>4</sub> . <i>Physical Review B</i> , 2015, 92, .                                                                                                                                                                                                         | 1.1 | 42        |
| 63 | Can crystal structure determine molecular structure? For Co <sub>3</sub> (dpa) <sub>4</sub> Cl <sub>2</sub> , yes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3327-3328.                                                                                                                                                                         | 1.1 | 40        |
| 64 | 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> , 2006, 45, 201-213.                                                                                                                                         | 1.9 | 40        |
| 65 | 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> , 2002, 14, 3066-3081. | 3.2 | 39        |
| 66 | 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> , 2003, 351, 191-200.                                                                                                                                                                   | 1.2 | 39        |
| 67 | 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> , 2003, 42, 6412-6424.                                                                   | 1.9 | 39        |
| 68 | The First Structurally Confirmed Paddlewheel Compound with an M <sub>27</sub> <sup>+</sup> Core: [Os <sub>2</sub> (hpp) <sub>4</sub> Cl <sub>2</sub> ](PF <sub>6</sub> ). <i>Inorganic Chemistry</i> , 2003, 42, 670-672.                                                                                                                                                  | 1.9 | 38        |
| 69 | On the Chemistry and Physical Properties of Flux and Floating Zone Grown SmB <sub>6</sub> Single Crystals. <i>Scientific Reports</i> , 2016, 6, 20860.                                                                                                                                                                                                                     | 1.6 | 38        |
| 70 | Thermodynamic and kinetic studies of H <sub>2</sub> and N <sub>2</sub> binding to bimetallic nickel-group 13 complexes and neutron structure of a Ni(μ <sup>2</sup> -H <sub>2</sub> ) adduct. <i>Chemical Science</i> , 2019, 10, 7029-7042.                                                                                                                               | 3.7 | 38        |
| 71 | Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4943-4947.                                                                                                                                                                                                  | 7.2 | 38        |
| 72 | 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> <sup>n</sup> compounds, n = 0, 1, 2. <i>Inorganica Chimica Acta</i> , 2002, 337, 233-246.                                                                                             | 1.2 | 37        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Synthesis, Spectroscopic Properties, and Photoconductivity of Black Absorbers Consisting of Pt(Bipyridine)(Dithiolate) Charge Transfer Complexes in the Presence and Absence of Nitrofluorenone Acceptors. <i>Journal of the American Chemical Society</i> , 2014, 136, 16185-16200.                                                                                                                                                                                                                      | 6.6  | 37        |
| 74 | Copper Clusters Containing Hydrides in Trigonal Pyramidal Geometry. <i>Inorganic Chemistry</i> , 2020, 59, 2536-2547.                                                                                                                                                                                                                                                                                                                                                                                     | 1.9  | 37        |
| 75 | nido-Metalloborane Complexes: Synthesis and Structural Characterization of $\eta^3$ -1,4-Hexahydrodiborotetrakis(N,N-diarylformamidinato)ditanalium(III), Aryl = p-Tolyl and Phenyl. The First Structurally Characterized Complexes Containing the $\eta^3$ -1,4-B <sub>2</sub> H <sub>6</sub> -Ligand. <i>Journal of the American Chemical Society</i> , 1996, 118, 4830-4833.                                                                                                                           | 6.6  | 36        |
| 76 | Isolation of the New Cubic Phases RE <sub>4</sub> FeGa <sub>12-x</sub> Gex (RE = Sm, Tb; x = 2.5) from Molten Gallium: A Single-Crystal Neutron Diffraction Study of the Ga/Ge Distribution. <i>Inorganic Chemistry</i> , 2002, 41, 6056-6061.                                                                                                                                                                                                                                                            | 1.9  | 36        |
| 77 | Dimolybdenum-Containing Molecular Triangles and Squares with Diamidate Linkers: Structural Diversity and Complexity. <i>Inorganic Chemistry</i> , 2006, 45, 2619-2626.                                                                                                                                                                                                                                                                                                                                    | 1.9  | 36        |
| 78 | Polyhydrido Copper Nanoclusters with a Hollow Icosahedral Core: [Cu <sub>30</sub> H <sub>18</sub> ]{E <sub>2</sub> P(OR) <sub>2</sub> } <sub>12</sub> (E = S or Se). <i>Journal of the American Chemical Society</i> , 2010, 132, 1070-1075.                                                                                                                                                                                                                                                              | 11.0 | 36        |
| 79 | Paramagnetism at Ambient Temperature, Diamagnetism at Low Temperature in a Ru <sub>26</sub> +Core: Structural Evidence for Zero-Field Splitting. <i>Inorganic Chemistry</i> , 2004, 43, 8373-8378.                                                                                                                                                                                                                                                                                                        | 1.9  | 35        |
| 80 | Structural investigation of the bilayer iridate $\text{Sr}_3\text{O}_7$ . <i>Physical Review B</i> , 2016, 93, 080401.                                                                                                                                                                                                                                                                                                                                                                                    | 1.1  | 35        |
| 81 | Solution <sup>31</sup> P NMR Study of the Acid-Catalyzed Formation of a Highly Charged {U <sub>24</sub> Pp <sub>12</sub> } Nanocluster, [(U <sub>2</sub> ) <sub>24</sub> (O <sub>2</sub> ) <sub>24</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>12</sub> ] <sup>48-</sup> and Its Structural Characterization in the Solid State Using Single-Crystal Neutron Diffraction. <i>Journal of the American Chemical Society</i> , 2016, 138, 8547-8553.                                                         | 11.8 | 35        |
| 82 | Hydride-Containing Eight-Electron Pt/Ag Superatoms: Structure, Bonding, and Multi-NMR Studies. <i>Journal of the American Chemical Society</i> , 2022, 144, 10599-10607.                                                                                                                                                                                                                                                                                                                                  | 6.6  | 35        |
| 83 | Structural and magnetic properties of Co <sub>3</sub> (dpa) <sub>4</sub> Br <sub>2</sub> . <i>Dalton Transactions RSC</i> , 2001, , 386-391.                                                                                                                                                                                                                                                                                                                                                              | 2.3  | 34        |
| 84 | How Small Variations in Crystal Interactions Affect Macroscopic Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 12666-12667.                                                                                                                                                                                                                                                                                                                                                     | 6.6  | 34        |
| 85 | 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> , 2016, 49, 497-506.                                                                                                                                                                                                                                                                                                     | 1.9  | 34        |
| 86 | Dinuclear and Heteropolynuclear Complexes Containing Mo <sup>2+</sup> Units. <i>Inorganic Chemistry</i> , 2001, 40, 420-426.                                                                                                                                                                                                                                                                                                                                                                              | 1.9  | 33        |
| 87 | Free H <sub>2</sub> Rotation vs Jahn-Teller Constraints in the Nonclassical Trigonal (TPB)CoH <sub>2</sub> Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 14998-15009.                                                                                                                                                                                                                                                                                                             | 6.6  | 33        |
| 88 | Metal-assisted unorthodox reactions of formamidines: coupling, cleavage and insertions. <i>Polyhedron</i> , 1997, 16, 1177-1191.                                                                                                                                                                                                                                                                                                                                                                          | 1.0  | 32        |
| 89 | Direct observation of I <sub>2</sub> -imine formation through I <sub>2</sub> -H abstraction between amide ligands. Neutron and X-ray diffraction structure of a dihydride imine ditantalum complex. Electronic supplementary information (ESI) available: experimental section; X-ray ORTEP views of 1a and 1b; HMQC and NOESY NMR spectra. See <a href="http://www.rsc.org/suppdata/cc/b1/b108913g/">http://www.rsc.org/suppdata/cc/b1/b108913g/</a> . <i>Chemical Communications</i> , 2002, , 230-231. | 2.2  | 32        |
| 90 | A hardwon dirhodium paddlewheel with guanidinate type (hpp) bridging ligands. <i>Dalton Transactions</i> , 2005, , 3713.                                                                                                                                                                                                                                                                                                                                                                                  | 1.6  | 32        |

| #   | ARTICLE                                                                                                                                                                                                                                                              | IF  | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Molecular and Electronic Structure of Cyclic Trinuclear Gold(I) Carbenate Complexes: Insights for Structure/Luminescence/Conductivity Relationships. <i>Inorganic Chemistry</i> , 2014, 53, 7485-7499.                                                               | 1.9 | 32        |
| 92  | Microdomain dynamics in single-crystal $\text{BaTiO}_3$ during paraelectric-ferroelectric phase transition measured with time-of-flight neutron scattering. <i>Physical Review B</i> , 2015, 92, .                                                                   | 1.1 | 32        |
| 93  | Trapping Tetramethoxyzincate and -cobaltate(II) between $\text{Mo}^{24+}$ Units. <i>Inorganic Chemistry</i> , 2003, 42, 4619-4623.                                                                                                                                   | 1.9 | 31        |
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| 186 | Synthesis of the labile rhenium(I) complexes fac-Re(CO) <sub>3</sub> (L)[ <sup>η</sup> -2-O,O-FcC(O)CHC(O)Me] (where Fc = Tj ETQqO O rgBT /Overlock 10 T). <i>Organometallic Chemistry</i> , 2018, 874, 87-100.                                                                                                                                                                                                                                                                                                                                                     | 0.8 | 3         |
| 187 | Unexpected Hydride: Ce <sub>4</sub> B <sub>2</sub> C <sub>2</sub> H <sub>2</sub> .4 <sub>2</sub> , a Stuffed Variant of the Nd <sub>2</sub> BC Structure Type. <i>Crystal Growth and Design</i> , 2021, 21, 5164-5171.                                                                                                                                                                                                                                                                                                                                              | 1.4 | 3         |
| 188 | Tetra- <sup>η</sup> -acetato- <sup>η</sup> -O <sub>2</sub> -bis[(N <sub>1</sub> ,N <sub>2</sub> -di-p-anisylformamidine- <sup>η</sup> -N <sub>2</sub> )ruthenium(II)](Ru <sup>II</sup> 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> , 2005, 61, m109-m111.                                                                                                                                                           | 0.4 | 2         |
| 189 | <sup>η</sup> -Diimine Chelation at a Triosmium Cluster: Synthesis and X-ray Structure of 1,1-Os <sub>3</sub> (CO) <sub>9</sub> ( <sup>η</sup> -CO)(1,10-phen). <i>Journal of Chemical Crystallography</i> , 2007, 37, 641-644.                                                                                                                                                                                                                                                                                                                                      | 0.5 | 2         |
| 190 | Syntheses, Spectroscopic Data, and X-ray Diffraction Structures of the Heterometallic RuRe Face-shared Bioctahedral ( <sup>η</sup> -6-cymene)Ru( <sup>η</sup> -4-Cl) <sub>3</sub> Re(CO) <sub>3</sub> and MnRu <sub>2</sub> Edge-shared Trioctahedral [fac-ClRu(CO) <sub>3</sub> ] <sub>2</sub> ( <sup>η</sup> -4-Cl) <sub>4</sub> Mn(H <sub>2</sub> O) <sub>2</sub> Complexes. <i>Journal of Chemical Crystallography</i> , 2009, 39, 589-594.                                                                                                                     | 0.5 | 2         |
| 191 | <sup>η</sup> -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> , 2009, 39, 820-826.                                                                                                                                              | 0.5 | 2         |
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| 195 | 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> , 2015, 26, 93-109.                                                                                                                                                    | 1.7 | 2         |
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| 197 | The high pressure gas capabilities at Oak Ridge National Laboratory's neutron facilities. <i>Review of Scientific Instruments</i> , 2018, 89, 092907.                                                                                                                                                                                                                                                                                                                                                                                                               | 0.6 | 2         |
| 198 | Neutron diffraction and linear Gr <sup>1/4</sup> neisen parameter studies of magnetism in NdFe <sub>2</sub> Ga <sub>8</sub> . <i>Physical Review B</i> , 2022, 105, .                                                                                                                                                                                                                                                                                                                                                                                               | 1.1 | 2         |

| #   | ARTICLE                                                                                                                                                                                                                                                                                                                                                                             | IF   | CITATIONS |
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| 199 | Insulating antiferromagnetism in VTe. <i>Physical Review B</i> , 2022, 105, .                                                                                                                                                                                                                                                                                                       | 1.1  | 2         |
| 200 | A paramagnetic precursor for polymeric supramolecular assemblies based on multiply bonded dimetal units: $\frac{1}{4}$ -acetato-acetonitriletris( $\frac{1}{4}$ -N,N $\epsilon^2$ -diphenylformamidinato)diruthenium tetrafluoroborate dichloromethane hemisolvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, m71-m73.                  | 0.4  | 1         |
| 201 | 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> , 2009, 39, 428-432. | 0.5  | 1         |
| 202 | Synthesis of the donor $\epsilon$ “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) $\cdot$ 1.5CH <sub>2</sub> Cl <sub>2</sub> . <i>Inorganica Chimica Acta</i> , 2010, 363, 418-423.                                               | 1.2  | 1         |
| 203 | Preferential quenching of 5d antiferromagnetic order in Sr <sub>3</sub> (Ir <sup>1-x</sup> Mn <sup>x</sup> ) <sub>2</sub> O <sub>7</sub> . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 244003.                                                                                                                                                                           | 0.7  | 1         |
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| 207 | Frontispiece: Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-H $\epsilon$ ... $\epsilon$ ...H-N Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.                                                                                                                                   | 7.2  | 0         |
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| 209 | Ferroelectric Materials: Nanoscale Atomic Displacements Ordering for Enhanced Piezoelectric Properties in Lead-Free ABO <sub>3</sub> Ferroelectrics (Adv. Mater. 29/2015). <i>Advanced Materials</i> , 2015, 27, 4329-4329.                                                                                                                                                         | 11.1 | 0         |
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| 211 | Lattice disorder effect on magnetic ordering of iron arsenides. <i>Scientific Reports</i> , 2019, 9, 20147.                                                                                                                                                                                                                                                                         | 1.6  | 0         |
| 212 | Cool structures from event-based single-crystal neutron diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, a142-a142.                                                                                                                                                                                                                       | 0.0  | 0         |