

Xiaoping Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

203
papers

6,509
citations

44
h-index

70
g-index

224
ext. papers

7,158
ext. citations

6.7
avg, IF

5.56
L-index

#	Paper	IF	Citations
203	Reactivities of Interstitial Hydrides in a Cu ₁₁ Template: En Route to Bimetallic Clusters. <i>Angewandte Chemie</i> , 2022 , 134, e202113266	3.6	
202	H-Atom Assignment and Sb-O Bonding of [MesSbOH][OSPh] Confirmed by Neutron Diffraction, Multipole Modeling, and Hirshfeld Atom Refinement. <i>Inorganic Chemistry</i> , 2021 , 60, 16048-16052	5.1	0
201	Isolation and Structural Elucidation of 15-Nuclear Copper Dihydride Clusters: An Intermediate in the Formation of a Two-Electron Copper Superatom. <i>Small</i> , 2021 , 17, e2002544	11	11
200	Neutron Diffraction Study of Significant and C-H Bond Shortening in a Fluorinated Pyridinium Saccharinate. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5550-5557	16.4	2
199	Electro-Optic Modulation Using Metal-Free Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19042-19047	9.5	3
198	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021 , 11,	9.1	14
197	Operando single crystal neutron diffraction reveals insight into the field response mechanisms in the hydrogen-bonded KH ₂ PO ₄ ferroelectric. <i>APL Materials</i> , 2021 , 9, 021111	5.7	0
196	Unexpected Hydride: Ce ₄ B ₂ C ₂ H ₂ .42, a Stuffed Variant of the Nd ₂ BC Structure Type. <i>Crystal Growth and Design</i> , 2021 , 21, 5164-5171	3.5	0
195	Understanding the Reactivity and Decomposition of a Highly Active Iron Pincer Catalyst for Hydrogenation and Dehydrogenation Reactions. <i>ACS Catalysis</i> , 2021 , 11, 10631-10646	13.1	1
194	Preparation of cyclohexene isotopologues and stereoisotopomers from benzene. <i>Nature</i> , 2020 , 581, 288-293	50.4	16
193	Polyhydrido Copper Nanoclusters with a Hollow Icosahedral Core: [Cu _n H _m {E P(OR)} _n] (E=S or Se; R=nPr, iPr or iBu). <i>Chemistry - A European Journal</i> , 2020 , 26, 10471-10479	4.8	18
192	Manganese tetraphenylporphyrin bromide and iodide. Studies of structures and magnetic properties. <i>Polyhedron</i> , 2020 , 184, 114488	2.7	5
191	Copper Clusters Containing Hydrides in Trigonal Pyramidal Geometry. <i>Inorganic Chemistry</i> , 2020 , 59, 2536-2547	5.1	15
190	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> , 2020 , 76, 93-107	1.8	2
189	On single-crystal neutron-diffraction in DACs: quantitative structure refinement of light elements on SNAP and TOPAZ. <i>High Pressure Research</i> , 2020 , 40, 339-357	1.6	5
188	Quantum liquid from strange frustration in the trimer magnet Ba ₄ Ir ₃ O ₁₀ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	3
187	Dialing in Direct Air Capture of CO by Crystal Engineering of Bisiminoguanidines. <i>ChemSusChem</i> , 2020 , 13, 6381-6390	8.3	10

186	Flux Synthesis of a Metal Carbide Hydride Using Anthracene As a Reactant. <i>Inorganic Chemistry</i> , 2020 , 59, 11651-11657	5.1	2
185	Au-to-Ag coordinate-covalent bonding and other supramolecular interactions with covalent bonding strength. <i>Chemical Science</i> , 2020 , 11, 11179-11188	9.4	3
184	Aggregation-induced phosphorescence sensitization in two heptanuclear and decanuclear gold-silver sandwich clusters. <i>Chemical Science</i> , 2020 , 12, 702-708	9.4	3
183	Hydrogenation of π -Heteroarenes Using Rhodium Precatalysts: Reductive Elimination Leads to Formation of Multimetallic Clusters. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17900-17908	16.4	33
182	Antiferroelectric Phase Transition in a Proton-Transfer Salt of Squaric Acid and 2,3-Dimethylpyrazine. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16279-16287	16.4	4
181	Thermodynamic and kinetic studies of H and N binding to bimetallic nickel-group 13 complexes and neutron structure of a Ni(η -H) adduct. <i>Chemical Science</i> , 2019 , 10, 7029-7042	9.4	20
180	Preferential quenching of 5d antiferromagnetic order in Sr(Ir Mn)O. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 244003	1.8	0
179	Emergence of topologically protected states in the MoTe ₂ Weyl semimetal with layer-stacking order. <i>Physical Review B</i> , 2019 , 99,	3.3	5
178	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4943-4947	16.4	20
177	Spectroscopic Studies of the Magnetic Excitation and Spin-Phonon Couplings in a Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , 2019 , 25, 15846-15857	4.8	11
176	Direct air capture of CO ₂ - 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> , 2019 , 6, 56-65	4.7	8
175	The incommensurately modulated structures of volcanic plagioclase: displacement, ordering and phase transition. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 643-656	1.8	3
174	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie</i> , 2019 , 131, 4997-5001	3.6	9
173	Lattice disorder effect on magnetic ordering of iron arsenides. <i>Scientific Reports</i> , 2019 , 9, 20147	4.9	
172	Reorientation of antiferromagnetism in cobalt doped FeSn. <i>Physical Review B</i> , 2019 , 100,	3.3	5
171	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1065-1089	2.3	18
170	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	24	45
169	From the source: student-centred guest lecturing in a chemical crystallography class. <i>Journal of Applied Crystallography</i> , 2018 , 51, 909-914	3.8	6

168	Fast Rotational Diffusion of Water Molecules in a 2D Hydrogen Bond Network at Cryogenic Temperatures. <i>Physical Review Letters</i> , 2018 , 120, 196001	7.4	10
167	Chemically controlled crystal growth of (CH ₃ NH ₃) ₂ AgInBr ₆ . <i>CrystEngComm</i> , 2018 , 20, 5929-5934	3.3	14
166	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> , 2018 , 74, 1085-1095	5.5	16
165	Synthesis of Surface-Analogue Square-Planar Tetranuclear Nickel Hydride Clusters and Bonding to ENR, -O and -BH Ligands. <i>Inorganic Chemistry</i> , 2018 , 57, 2438-2446	5.1	9
164	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	1.7	22
163	Temperature dependence of the spin state and geometry in tricobalt paddlewheel complexes with halide axial ligands. <i>Dalton Transactions</i> , 2018 , 47, 16798-16806	4.3	1
162	Revisiting the <i>bf</i> structures of high-temperature Ca-rich plagioclase feldspar - a single-crystal neutron and X-ray diffraction study. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018 , 74, 152-164	1.8	5
161	Determination of hydrogen site and occupancy in hydrous Mg ₂ SiO ₄ spinel by single-crystal neutron diffraction. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018 , 74, 115-120	1.8	7
160	Unusual effects of Be doping in the iron-based superconductor FeSe. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 445701	1.8	2
159	Time filtering of event based neutron scattering data: A pathway to study the dynamic structural responses of materials. <i>Review of Scientific Instruments</i> , 2018 , 89, 092803	1.7	3
158	The high pressure gas capabilities at Oak Ridge National Laboratory's neutron facilities. <i>Review of Scientific Instruments</i> , 2018 , 89, 092907	1.7	1
157	Synthesis of the labile rhenium(I) complexes fac-Re(CO) ₃ (L)[η -O,O-FcC(O)CHC(O)Me] (where Fc = ferrocenyl; L = THF, H ₂ O, alkyne) and alkyne addition to the diketonate ligand. <i>Journal of Organometallic Chemistry</i> , 2018 , 874, 87-100	2.3	2
156	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> , 2017 , 8, 3989-4000	9.4	51
155	Neutron and X-ray investigations of the Jahn-Teller switch in partially deuterated ammonium copper Tutton salt, (NH ₄) ₂ [Cu(H ₂ O) ₆](SO ₄) ₂ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017 , 73, 87-93	1.8	3
154	The neutron diffraction structure of [Ir ₄ (IMe) ₈ H ₁₀] ²⁺ polyhydride cluster: Testing the computational hydride positional assignments. <i>Journal of Organometallic Chemistry</i> , 2017 , 849-850, 17-213	2.3	6
153	Structural Characterization of π Agostic Bonds in Pd-Catalyzed Polymerization. <i>Organometallics</i> , 2017 , 36, 4099-4102	3.8	18
152	Self-assembly of molecular ions via like-charge ion interactions and through-space defined organic domains. <i>Chemical Communications</i> , 2017 , 53, 10934-10937	5.8	14
151	Improving superconductivity in BaFeAs-based crystals by cobalt clustering and electronic uniformity. <i>Scientific Reports</i> , 2017 , 7, 949	4.9	10

150	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> , 2017 , 56, 9574-9584	5.1	11
149	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> , 2017 , 56, 9676-9683	5.1	18
148	Crystal Structure of Hydrazinium Iodide by Neutron Diffraction. <i>Journal of Chemical Crystallography</i> , 2017 , 47, 241-244	0.5	
147	Doping-driven structural distortion in the bilayer iridate (Sr _{1-x} Lax) ₃ Ir ₂ O ₇ . <i>Physical Review B</i> , 2017 , 95,	3.3	7
146	Spin density in YTiO ₃ : I. Joint refinement of polarized neutron diffraction and magnetic x-ray diffraction data leading to insights into orbital ordering. <i>Physical Review B</i> , 2017 , 96,	3.3	15
145	Structural investigation of the bilayer iridate Sr ₃ Ir ₂ O ₇ . <i>Physical Review B</i> , 2016 , 93,	3.3	27
144	Simultaneous metal-insulator and antiferromagnetic transitions in orthorhombic perovskite iridate Sr _{0.94} Ir _{0.78} O _{2.68} single crystals. <i>Physical Review B</i> , 2016 , 93,	3.3	8
143	Quantitative analysis of hydrogen sites and occupancy in deep mantle hydrous wadsleyite using single crystal neutron diffraction. <i>Scientific Reports</i> , 2016 , 6, 34988	4.9	15
142	On the Chemistry and Physical Properties of Flux and Floating Zone Grown SmB ₆ Single Crystals. <i>Scientific Reports</i> , 2016 , 6, 20860	4.9	29
141	Solution (31)P NMR Study of the Acid-Catalyzed Formation of a Highly Charged {U ₂₄ Pp ₁₂ } Nanocluster, [(UO ₂) ₂₄ (O ₂) ₂₄ (P ₂ O ₇) ₁₂](48-), and Its Structural Characterization in the Solid State Using Single-Crystal Neutron Diffraction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8547-53	16.4	26
140	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	3.8	20
139	Orientation of Organic Cations in Hybrid Inorganic/Organic Perovskite CH ₃ NH ₃ PbI ₃ from Subatomic Resolution Single Crystal Neutron Diffraction Structural Studies. <i>Crystal Growth and Design</i> , 2016 , 16, 2945-2951	3.5	73
138	Lattice dynamics and the nature of structural transitions in organolead halide perovskites. <i>Physical Review B</i> , 2016 , 94,	3.3	34
137	Synthesis of the Stereoisomeric Clusters 1,2-Os ₃ (CO) ₁₀ (trans-dpmn) and 1,2-Os ₃ (CO) ₁₀ (cis-dpmn) [where dpmn = 2,3-bis(diphenylphosphinomethyl)-5-norbornene]: DFT Evaluation of the Isomeric Clusters 1,2-Os ₃ (CO) ₁₀ (dpmn) and Isomer-Dependent Diphosphine Ligand Activation. <i>Journal of Cluster Science</i> , 2015 , 26, 93-103	3	2
136	[Cu ₃₂ (H) ₂₀ {S ₂ P(OiPr) ₂ } ₁₂]: The Largest Number of Hydrides Recorded in a Molecular Nanocluster by Neutron Diffraction. <i>Chemistry - A European Journal</i> , 2015 , 21, 8369-74	4.8	85
135	Quantitative analysis of intermolecular interactions in orthorhombic rubrene. <i>IUCrJ</i> , 2015 , 2, 563-74	4.7	145
134	Ferroelectric Materials: Nanoscale Atomic Displacements Ordering for Enhanced Piezoelectric Properties in Lead-Free ABO ₃ Ferroelectrics (Adv. Mater. 29/2015). <i>Advanced Materials</i> , 2015 , 27, 4329-4329	2.4	
133	Innenrücktitelbild: Formation of a Fluorous/Organic Biphasic Supramolecular Octopus Assembly for Enhanced Porphyrin Phosphorescence in Air (Angew. Chem. 16/2015). <i>Angewandte Chemie</i> , 2015 , 127, 5053-5053	3.6	

132	Microdomain dynamics in single-crystal BaTiO ₃ during paraelectric-ferroelectric phase transition measured with time-of-flight neutron scattering. <i>Physical Review B</i> , 2015 , 92,	3.3	28
131	Structure symmetry determination and magnetic evolution in Sr ₂ Ir _{1-x} Rh _x O ₄ . <i>Physical Review B</i> , 2015 , 92,	3.3	32
130	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> , 2015 , 45, 277-283	0.5	5
129	Diselenophosphate-Induced Conversion of an Achiral [Cu ₂₀ H ₁₁ {S ₂ P(OiPr) ₂ } ₉] into a Chiral [Cu ₂₀ H ₁₁ {Se ₂ P(OiPr) ₂ } ₉] Polyhydrido Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13604-8	16.4	74
128	Nanoscale Atomic Displacements Ordering for Enhanced Piezoelectric Properties in Lead-Free ABO ₃ Ferroelectrics. <i>Advanced Materials</i> , 2015 , 27, 4330-5	24	8
127	Formation of a Fluorous/Organic Biphasic Supramolecular Octopus Assembly for Enhanced Porphyrin Phosphorescence in Air. <i>Angewandte Chemie</i> , 2015 , 127, 4924-4928	3.6	
126	Diselenophosphate-Induced Conversion of an Achiral [Cu ₂₀ H ₁₁ {S ₂ P(OiPr) ₂ } ₉] into a Chiral [Cu ₂₀ H ₁₁ {Se ₂ P(OiPr) ₂ } ₉] Polyhydrido Nanocluster. <i>Angewandte Chemie</i> , 2015 , 127, 13808-13812	3.6	18
125	Formation of a fluorous/organic biphasic supramolecular octopus assembly for enhanced porphyrin phosphorescence in air. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4842-6	16.4	7
124	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> , 2014 , 53, 5300-4	16.4	97
123	Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-H...H-N Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie</i> , 2014 , 126, 5404-5408	3.6	12
122	Intermolecular interactions in solid-state metalloporphyrins and their impacts on crystal and molecular structures. <i>Inorganic Chemistry</i> , 2014 , 53, 11552-62	5.1	7
121	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, 16185-200	16.4	28
120	Manipulating magnetism: Ru paddlewheels devoid of axial interactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9580-9	16.4	17
119	Neutron diffraction studies of a four-coordinated hydride in near square-planar geometry. <i>Inorganic Chemistry</i> , 2014 , 53, 11140-5	5.1	51
118	Free H ₂ rotation vs Jahn-Teller constraints in the nonclassical trigonal (TPB)Co-H ₂ complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14998-5009	16.4	31
117	LiCaAs ₂ H and CaAs ₂ X (X = C, H, N): two new arsenide hydride phases grown from Ca/Li metal flux. <i>Inorganic Chemistry</i> , 2014 , 53, 10620-6	5.1	8
116	Molecular and electronic structure of cyclic trinuclear gold(I) carbenate complexes: insights for structure/luminescence/conductivity relationships. <i>Inorganic Chemistry</i> , 2014 , 53, 7485-99	5.1	29
115	Integration of neutron time-of-flight single-crystal Bragg peaks in reciprocal space. <i>Journal of Applied Crystallography</i> , 2014 , 47, 915-921	3.8	65

114	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. <i>Physical Review B</i> , 2014 , 90,	3.3	51
113	Accurate atomic displacement parameters from time-of-flight neutron-diffraction data at TOPAZ. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014 , 70, 679-681	1.7	10
112	Reciprocal Salt Flux Growth of LiFePO ₄ Single Crystals with Controlled Defect Concentrations. <i>Chemistry of Materials</i> , 2013 , 25, 4574-4584	9.6	34
111	Phosphinoborane-induced fragmentation of the unsaturated hydride H ₂ Re ₂ (CO) ₈ : X-ray structure of HRe(CO) ₄ (B,P-Ph ₂ PCH ₂ CH ₂ BR ₂) (where BR ₂ = η^9 -borabicyclo[3.3.1]nonanyl) and DFT Evaluation of hydride versus CO coordination by the ancillary borane. <i>Journal of Organometallic Chemistry</i> , 2012 , 700, 103-109	2.3	9
110	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> , 2012 , 51, 10193-202	5.1	3
109	CO Substitution in HOs ₃ (CO) ₁₀ (η^5 -C ₆ H ₄ Me-4) by the Diphosphine 4,5-Bis(diphenylphosphino)-4-cyclopentadiene-1,3-dione (bpcd): Structural and DFT Evaluation of the Isomeric Clusters HOs ₃ (CO) ₈ (bpcd)(η^5 -C ₆ H ₄ Me-4). <i>Journal of Cluster Science</i> , 2012 , 23, 685-702	3	10
108	Structural modulations and magnetic properties of off-stoichiometric Ni-Mn-Ga magnetic shape memory alloys. <i>Physical Review B</i> , 2012 , 85,	3.3	25
107	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, 18094-7	16.4	351
106	CrystalPlan: an experiment-planning tool for crystallography. <i>Journal of Applied Crystallography</i> , 2011 , 44, 418-423	3.8	51
105	High-resolution neutron crystallographic studies of the hydration of the coenzyme cob(II)alamin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011 , 67, 584-91		27
104	Unexpected formation of a trinuclear complex containing a Ta(IV)-Ta(IV) bond in the reactions of Bu(t)N=Ta(NMe ₂) ₃ with silanes. <i>Chemical Communications</i> , 2011 , 47, 8685-7	5.8	13
103	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 ₃ (CO) ₁₀ (dppbz), 1,1-Os ₃ (CO) ₁₀ (dppbzF ₄), and Os ₃ (CO) ₁₀ (F ₄ Ph ₂ PCH ₂ CH ₂ Ph) ₂ . <i>Journal of Organometallic Chemistry</i> , 2011 , 700, 103-109	3.8	17
102	Allyl Ligand Reactivity in Tantalum(V) Compounds: Experimental and Computational Evidence for Allyl Transfer to the Formamidinate Ligand in fac-Ta(NMe ₂) ₃ (η^3 -allyl)[iPrNC(H)NiPr] via a Metallo-Claisen Rearrangement. <i>Organometallics</i> , 2011 , 30, 5832-5843	3.8	5
101	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 ₃ (CO) ₁₀ (dppq), and Os ₃ (CO) ₁₀ (F ₄ Ph ₂ PCH ₂ CH ₂ Ph) ₂ . <i>Journal of Organometallic Chemistry</i> , 2011 , 700, 1432-1440	2.3	11
100	Directed Synthesis of the Triangular Mixed-Metal Cluster H ₂ RhRe ₂ Cp*(CO) ₉ : Ligand Fluxionality and Facile Cluster Fragmentation in the Presence of CO, Halogenated Solvents, and Thiols. <i>Organometallics</i> , 2010 , 29, 61-75	3.8	9
99	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> , 2010 , 39, 1620-9	4.3	15
98	Chloride Metathesis and Dimethylamide Transfer in the Reaction of TaCl(NMe ₂) ₄ with ZnMe ₂ and MeMgCl: Spectroscopic Studies and X-ray Diffraction Structures of TaCl(Me)(NMe ₂) ₃ and ZnCl ₂ (NHMe ₂) ₂ . <i>Journal of Chemical Crystallography</i> , 2010 , 40, 173-178	0.5	4
97	Diphosphine- and CO-Induced Fragmentation of Chloride-bridged Dinuclear Complex and Cp*Ir(ECl) ₃ Re(CO) ₃ and Attempted Synthesis of Cp*Ir(ECl) ₃ Mn(CO) ₃ : Spectroscopic Data and X-ray Diffraction Structures of the Pentamethylcyclopentadienyl Compounds [Cp*IrCl{(Z)-Ph ₂ PCH = CHPh ₂ }][ECl] ₂ and Cp*Ir(CO) ₃ Cl ₂ . <i>Journal of Chemical Crystallography</i> , 2010 , 40, 153-160	0.5	2

- 96 New Pt(II)(dithiolate) Compounds Possessing an Energetically Accessible Diphosphine-Based LUMO: Syntheses, Redox Properties, and Solid-State Structures of PtCl₂(pbpcd), Pt(tdt)(pbpcd), and Pt(tdt)(bpcd). *Journal of Inorganic and Organometallic Polymers and Materials*, **2010**, 20, 457-467 3.2 2
- 95 New octahedral Ta(V) hydrazido-substituted compounds for atomic layer deposition: Syntheses, X-ray diffraction structures of TaCl(NMe₂)₃[N(TMS)NMe₂] and Ta(NMe₂)₄[N(TMS)NMe₂], and fluxional behavior of the amido and hydrazido ligands in solution. *Polyhedron*, **2010**, 29, 1754-1759 2.7 8
- 94 Isomerization of the diphosphine ligand 3,4-bis(diphenylphosphino)-5-methoxy-2(5H)-furanone (bmf) at a triosmium cluster and P-Cl bond cleavage in the unsaturated cluster 1,1-Os₃(CO)₉(bmf): Synthesis and X-ray diffraction structures of the isomeric Os₃(CO)₁₀(bmf) clusters and synthesis of the donor-acceptor ligand 2-(4-dimethylaminobenzylidene)-4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (dbpcd). *Polyhedron*, **2010**, 29, 2814-2821 2.7 5
- 93 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 PtCl₂(dbpcd)·1.5CH₂Cl₂. *Inorganica Chimica Acta*, **2010**, 343, 418-423 2.7 1
- 92 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
- 91 Crystallographic observation of dynamic gas adsorption sites and thermal expansion in a breathable fluororous metal-organic framework. *Angewandte Chemie - International Edition*, **2009**, 48, 2500-2503 16.4 179
- 90 Transfer of Amide and 2-Methoxyethoxy Groups and Sodium Encapsulation in the Reaction of TaCl₃[N(TMS)₂]₂ with Sodium Bis(2-methoxyethoxy)aluminum Hydride: X-ray Structure of [NaAl{N(TMS)₂}(OCH₂CH₂OMe)₃]₂. *Journal of Chemical Crystallography*, **2009**, 39, 428-432 0.5 1
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