

# Charles G Young

## List of Publications by Year in descending order

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64  
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1,806  
citations

201575

27  
h-index

276775

41  
g-index

65  
all docs

65  
docs citations

65  
times ranked

922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mercury $\pm 1$ High Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy: A Versatile Speciation Probe for Mercury. <i>Inorganic Chemistry</i> , 2022, 61, 5201-5214.	1.9	7
2	Synthesis, characterization and X-ray crystal structure of $\text{Tp}^*\text{WII}\{(\text{R})\text{-}(+)\text{-NHCH}(\text{Me})\text{Ph}\}(\text{CO})_2$ . <i>Inorganica Chimica Acta</i> , 2021, 514, 120016.	1.2	1
3	Synthesis and characterisation of fifteen-electron dihalo(carbonyl)tungsten(iii) complexes, $\text{Tp}^*\text{WX}_2(\text{CO})$ (X = Br, I). <i>Chemical Communications</i> , 2020, 56, 10349-10352.	2.2	2
4	Tungsten Ligand-Based Sulfur-Atom-Transfer Catalysts: Synthesis, Characterization, Sustained Anaerobic Catalysis, and Mode of Aerial Deactivation. <i>Inorganic Chemistry</i> , 2020, 59, 16824-16828.	1.9	3
5	Synthesis, Iodometric Analysis, and IR Spectroscopy of the Peroxide Double Salt $[\text{Zn}(\text{NH}_3)_4][\text{Mo}(\text{O}_2)_4]$ . <i>Journal of Chemical Education</i> , 2020, 97, 1120-1122.	1.1	6
6	Synthesis and Iodometric Analysis of the Polyiodide Salt $(\text{NMe}_4)_5[\text{I}_5]$ . <i>Journal of Chemical Education</i> , 2020, 97, 1117-1119.	1.1	4
7	Models for aerobic carbon monoxide dehydrogenase: synthesis, characterization and reactivity of paramagnetic $\text{Mo}^{\text{V}}\text{O}(\text{S})\text{Cu}^{\text{I}}$ complexes. <i>Chemical Science</i> , 2018, 9, 876-888.	3.7	19
8	Mononuclear Sulfido-Tungsten(V) Complexes: Completing the $\text{Tp}^*\text{MEXY}$ (M = Mo, W; E = O, S) Series. <i>Inorganic Chemistry</i> , 2017, 56, 5189-5202.	1.9	6
9	Scorpionate Complexes as Models for Molybdenum Enzymes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2357-2376.	1.0	26
10	Chemical systems modeling the $d^1$ Mo(V) states of molybdenum enzymes. <i>Journal of Inorganic Biochemistry</i> , 2016, 162, 238-252.	1.5	8
11	$d^1$ Oxosulfido-Mo(V) Compounds: First Isolation and Unambiguous Characterization of an Extended Series. <i>Inorganic Chemistry</i> , 2015, 54, 6386-6396.	1.9	11
12	Water-soluble scorpionate ligands and their reactions with molybdenum complexes. Crystal structures of lithium tris(3-isopropylpyrazol-1-yl)methanesulfonate and $\text{MoVOCl}_3(\text{OPPh}_3)_2 \cdot \text{MoVIO}_2\text{Cl}_2(\text{OPPh}_3)_2$ . <i>Journal of Coordination Chemistry</i> , 2013, 66, 1252-1263.	0.8	5
13	Synthesis, characterization and metal ion complexation and extraction capabilities of calix[4]arene Schiff base compounds. <i>Tetrahedron</i> , 2013, 69, 8824-8830.	1.0	11
14	Structural Characterization and Unusual Reactivity of Oxosulfido-Mo(V) Compounds: Implications for the Structure and Electronic Description of the Very Rapid Form of Xanthine Oxidase. <i>Journal of the American Chemical Society</i> , 2013, 135, 7106-7109.	6.6	7
15	Reactivity Studies of Oxo-Mo(IV) Complexes Containing Potential Hydrogen-Bond Acceptor/Donor Phenolate Ligands. <i>Inorganic Chemistry</i> , 2012, 51, 3202-3211.	1.9	19
16	Novel O <sub>2</sub> -Donor Oxo-Mo(IV) Hydrotris(3-isopropylpyrazolyl)borate Complexes Formed by Chelation of Potentially Hydrogen-Bonding Phenolate Ligands on Reduction of Dioxo-Mo(VI) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3261-3269.	1.0	6
17	Isovalent and mixed-valent molybdenum complexes containing $\text{MoV}(\text{E})\text{MoV/IV}$ (E = O, S) core units. <i>Inorganica Chimica Acta</i> , 2010, 363, 1126-1132.	1.2	8
18	<i>cis</i> -Dioxo- and <i>cis</i> -(Hydroxo)oxo-Mo(V) Complexes Stabilized by Intramolecular Hydrogen-Bonding. <i>Inorganic Chemistry</i> , 2010, 49, 9460-9469.	1.9	18

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19	Influence of the Oxygen Atom Acceptor on the Reaction Coordinate and Mechanism of Oxygen Atom Transfer From the Dioxo-Mo(VI) Complex, TpiPrMoO <sub>2</sub> (OPh), to Tertiary Phosphines. <i>Inorganic Chemistry</i> , 2010, 49, 4895-4900.	1.9	32
20	Understanding Oxotransferase Reactivity in a Model System Using Singular Value Decomposition Analysis. <i>ACS Symposium Series</i> , 2009, , 199-217.	0.5	4
21	Insights into the nature of Mo(V) species in solution: Modeling catalytic cycles for molybdenum enzymes. <i>Inorganica Chimica Acta</i> , 2009, 362, 4603-4608.	1.2	29
22	Synthesis and Characterization of Tp <sup>+</sup> Pr <sup>+</sup> MoO(S <sub>2</sub> ) <sub>2</sub> (R =) Tj ETQqO O O rgBT /Overlock 10 {HB(OMe)(Pr <sup>+</sup> pz) <sub>2</sub> }MoO(S <sub>2</sub> ) <sub>2</sub> PP <sup>+</sup> <sub>2</sub> , Including Isomers of Known 1,2-Borotropically-Shifted Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 1960-1966.	1.9	9
23	Electronic Structure Description of the cis-MoOS Unit in Models for Molybdenum Hydroxylases. <i>Journal of the American Chemical Society</i> , 2008, 130, 55-65.	6.6	58
24	Toward Multifunctional Mo(VI~IV) Complexes: cis-Dioxomolybdenum(VI) Complexes Containing Hydrogen-Bond Acceptors or Donors. <i>Inorganic Chemistry</i> , 2008, 47, 1044-1052.	1.9	26
25	Synthesis, Structural Characterization, and Multifrequency Electron Paramagnetic Resonance Studies of Mononuclear Thiomolybdenyl Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 2373-2387.	1.9	31
26	Synthesis, Characterization, and Biomimetic Chemistry of cis-Oxosulfidomolybdenum(VI) Complexes Stabilized by an Intramolecular Mo(O)S <sub>2</sub> S Interaction. <i>Inorganic Chemistry</i> , 2007, 46, 939-948.	1.9	29
27	A Density Functional Study of the Electronic Structure and Spin Hamiltonian Parameters of Mononuclear Thiomolybdenyl Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 2388-2397.	1.9	31
28	Facets of early transition metal-sulfur chemistry: Metal-sulfur ligand redox, induced internal electron transfer, and the reactions of metal-sulfur complexes with alkynes. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1562-1585.	1.5	31
29	Paramagnetic Active Site Models for the Molybdenum-Copper Carbon Monoxide Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2006, 128, 2164-2165.	6.6	81
30	Acid-Base Carbonyloxomolybdenum(IV) Complexes and Their Oxomolybdenum(VI/IV) Precursors. <i>Inorganic Chemistry</i> , 2006, 45, 2209-2216.	1.9	13
31	Models for the Molybdenum Hydroxylases: Synthesis, Characterization and Reactivity of cis-Oxosulfido-Mo(VI) Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 305-316.	6.6	57
32	Acid-Base Carbonyloxo, Carbonylsulfido, and Mixed-Valence Complexes of Tungsten. <i>Inorganic Chemistry</i> , 2006, 45, 352-361.	1.9	18
33	Mechanistic Investigation of the Oxygen-Atom-Transfer Reactivity of Dioxo-molybdenum(VI) Complexes. <i>Chemistry - A European Journal</i> , 2006, 12, 7501-7509.	1.7	56
34	Oxygen Atom Transfer in Models for Molybdenum Enzymes: Isolation and Structural, Spectroscopic, and Computational Studies of Intermediates in Oxygen Atom Transfer from Molybdenum(VI) to Phosphorus(III). <i>Chemistry - A European Journal</i> , 2005, 11, 3255-3267.	1.7	55
35	Synthesis and characterisation of second-generation metallodithiolene complexes of the type [Tp <sup>+</sup> ME(dithiolene)] (M = Mo, W; E = O, S) and a novel organoscorpionate complex of tungsten. <i>Dalton Transactions</i> , 2005, , 3552.	1.6	19
36	cis-Dioxomolybdenum(VI) and Oxo(phosphine oxide)molybdenum(IV) Complexes: Steric and Electronic Fine-Tuning of cis-[MoOS] <sub>2</sub> +Precursors. <i>Inorganic Chemistry</i> , 2005, 44, 4506-4514.	1.9	31

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37	Sulfur atom transfer reactions of tungsten(VI) and tungsten(IV) chalcogenide complexes. <i>Polyhedron</i> , 2004, 23, 385-394.	1.0	21
38	Isolation and Characterization of Salts of the Organometallic Synthone $[Tp^*W(NCMe)(CO)_3]^+$ and Its Propionitrile Analogue. <i>Organometallics</i> , 2004, 23, 4328-4331.	1.1	3
39	Product Diversity in the Reactions of $Tp^*W(S_2CNEt_2)(CO)_2$ with Alkynes: A Novel $\eta^2$ -Alkyne and Tungstathiaenone Complexes. <i>Organometallics</i> , 2003, 22, 4853-4860.	1.1	8
40	Redox Interplay of Oxo $\pi$ -Thio $\pi$ -Tungsten Centers with Sulfur-Donor Co-Ligands. <i>Inorganic Chemistry</i> , 2003, 42, 5909-5916.	1.9	17
41	Synthesis, Characterization, and Electrochemistry of cis-Oxothio- and cis-Bis(thio)tungsten(VI) Complexes of Hydrotris(3,5-dimethylpyrazol-1-yl)borate. <i>Inorganic Chemistry</i> , 2001, 40, 4563-4573.	1.9	29
42	Biomimetic Chemistry of Molybdenum. , 2000, , 415-459.		16
43	Toward a Total Model for the Molybdenum Hydroxylases: A Synthesis, Redox, and Biomimetic Chemistry of Oxo-thio-Mo(VI) and -Mo(V) Complexes. <i>Journal of the American Chemical Society</i> , 2000, 122, 2946-2947.	6.6	44
44	Synthesis and Characterization of Monomeric Oxo Dichloro 1,3-Dialkylp-tert-Butylcalix[4]arene Complexes of Molybdenum(VI,V) and Tungsten(VI,V). <i>Inorganic Chemistry</i> , 2000, 39, 5151-5155.	1.9	13
45	Detection, Isolation, and Characterization of Intermediates in Oxygen Atom Transfer Reactions in Molybdoenzyme Model Systems. <i>Journal of the American Chemical Society</i> , 2000, 122, 9298-9299.	6.6	76
46	Transformations Leading to the Generation of Dithiolene Ligands Initiated by Reactions of Sulfur-Rich $WS_2(S_2CNR_2)_2$ Complexes with Dimethyl Acetylenedicarboxylate and Phenylacetylene. <i>Organometallics</i> , 2000, 19, 5643-5653.	1.1	15
47	Generation and biomimetic chemistry of tungsten $\pi$ -dithiolene complexes containing the hydrotris(3,5-dimethylpyrazol-1-yl)borate ligand. <i>Journal of Inorganic Biochemistry</i> , 1999, 76, 39-45.	1.5	15
48	Halocarbonyltungsten(II) Complexes Containing Tripodal Tris(pyrazolyl)borate Ligands. <i>Inorganic Chemistry</i> , 1998, 37, 1299-1306.	1.9	18
49	Four-Electron-Donor $\eta^2$ N,C Nitrile Complexes of Tungsten. <i>Organometallics</i> , 1998, 17, 182-189.	1.1	29
50	Models for the molybdenum hydroxylases. <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 810-816.	1.1	36
51	Oxygen Atom Transfer, Sulfur Atom Transfer, and Correlated Electron $\pi$ -Nucleophile Transfer Reactions of Oxo- and Thiomolybdenum(IV) Complexes: A Synthesis of Oxothiomolybdenum(VI) and (Hydroxo)oxomolybdenum(V) Species. <i>Inorganic Chemistry</i> , 1996, 35, 5368-5377.	1.9	52
52	Degree and Influence of MoS $\pi$ -S Interactions in Oxo $\pi$ -Molybdenum(VI,V,IV) Complexes. <i>Inorganic Chemistry</i> , 1996, 35, 3447-3448.	1.9	30
53	A Catalytic Cycle Related to Molybdenum Enzymes Containing $[MoVO_2]_2$ +Oxidized Active Sites. <i>Inorganic Chemistry</i> , 1996, 35, 7508-7515.	1.9	73
54	Complexes Containing cis- $[MoVO_2]^+$ and cis- $[MoVO(OH)]_2^+$ Centers. <i>Journal of the American Chemical Society</i> , 1996, 118, 2912-2921.	6.6	52

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55	Thio-Tungsten Chemistry. ACS Symposium Series, 1996, , 324-335.	0.5	11
56	Oxygen Atom Transfer, Coupled Electron-Proton Transfer, and Correlated Electron-Nucleophile Transfer Reactions of Oxomolybdenum(IV) and Dioxomolybdenum(VI) Complexes. Inorganic Chemistry, 1996, 35, 1050-1058.	1.9	88
57	Trimethylsilyloxo complexes of oxomolybdenum(V). Journal of Biological Inorganic Chemistry, 1996, 1, 415-423.	1.1	17
58	Dioxomolybdenum(VI) Complexes of Tripodal Nitrogen-Donor Ligands: Syntheses and Spectroscopic, Structural, and Electrochemical Studies, Including the Generation of EPR-Active Molybdenum(V) Species in Solution. Inorganic Chemistry, 1995, 34, 5950-5962.	1.9	75
59	Tungsten Bioinorganic Chemistry: Synthesis, Structure, and Reactivity of cis-Oxothio tungsten(VI), cis-Bis(thio) tungsten(VI), and (Ene-1,2-dithiolato) tungsten(IV) Complexes. Journal of the American Chemical Society, 1994, 116, 9749-9750.	6.6	69
60	Models of Pterin-Containing Molybdenum Enzymes. ACS Symposium Series, 1993, , 70-82.	0.5	6
61	An oxothio-molybdenum(VI) complex stabilized by an intramolecular sulfur-sulfur interaction: implications for the active site of oxidized xanthine oxidase and related enzymes. Journal of the American Chemical Society, 1992, 114, 9195-9197.	6.6	57
62	Reaction of the tetrasulphidomolybdenum(IV) complex LMo(NCS)(S <sub>4</sub> ) with dicarbomethoxyacetylene: X-ray structure of LMo(NCS){S <sub>2</sub> C <sub>2</sub> (CO <sub>2</sub> Me) <sub>2</sub> } [L = hydrotris(3,5-dimethylpyrazolyl)borate]. Polyhedron, 1990, 9, 2965-2969.	1.0	13
63	Synthesis, characterization, and oxygen atom transfer reactions of {HB(Me <sub>2</sub> C <sub>3</sub> N <sub>2</sub> H) <sub>3</sub> }MoO{S <sub>2</sub> P(OR) <sub>2</sub> } and {HB(Me <sub>2</sub> C <sub>3</sub> N <sub>2</sub> H) <sub>3</sub> }MoO <sub>2</sub> {.eta.-1-S <sub>2</sub> P(OEt) <sub>2</sub> }. Inorganic Chemistry, 1988, 27, 3044-3051.	1.9	92
64	The first mononuclear molybdenum(V) complex with a terminal sulfido ligand: dichloro[hydrotris(3,5-dimethyl-1-pyrazolyl)borato]sulfidomolybdenum. Inorganic Chemistry, 1987, 26, 2925-2927.	1.9	54