

# James Donahue

## List of Publications by Citations

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59  
papers

1,714  
citations

22  
h-index

41  
g-index

62  
ext. papers

1,821  
ext. citations

6.4  
avg, IF

4.37  
L-index

#	Paper	IF	Citations
59	A thermodynamic scale for oxygen atom transfer reactions. <i>Polyhedron</i> , <b>1993</b> , 12, 571-589	2.7	167
58	The simplest supramolecular complexes containing pairs of Mo(2)(formamidinate)(3) units linked with various dicarboxylates: preparative methods, structures, and electrochemistry. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 1234-44	5.1	127
57	Polyunsaturated dicarboxylate tethers connecting dimolybdenum redox and chromophoric centers: syntheses, structures, and electrochemistry. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 5436-50	16.4	120
56	Synthesis, Structures, and Reactivity of Bis(dithiolene)molybdenum(IV,VI) Complexes Related to the Active Sites of Molybdoenzymes. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 12869-12881	16.4	118
55	Synthesis and structures of bis(dithiolene)molybdenum complexes related to the active sites of the DMSO reductase enzyme family. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 263-73	5.1	115
54	Synthesis, Structures, and Oxo Transfer Reactivity of Bis(dithiolene)tungsten(IV,VI) Complexes Related to the Active Sites of Tungstoenzymes. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8102-8112	16.4	114
53	Comparative Kinetics of Oxo Transfer to Substrate Mediated by Bis(dithiolene)dioxomolybdenum and -tungsten Complexes. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 1602-1608	5.1	103
52	Polyunsaturated dicarboxylate tethers connecting dimolybdenum redox and chromophoric centers: absorption spectra and electronic structures. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 5486-92	16.4	65
51	Thermodynamic scales for sulfur atom transfer and oxo-for-sulfido exchange reactions. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4747-83	68.1	57
50	Molybdenum and Tungsten Structural Analogues of the Active Sites of the MoIV + [O] -sMoVIO Oxygen Atom Transfer Couple of DMSO Reductases. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 3259-3260	16.4	51
49	The Unperturbed OxoSulfido Functional Group cis-MoVIOs Related to That in the Xanthine Oxidase Family of Molybdoenzymes: Synthesis, Structural Characterization, and Reactivity Aspects. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 4104-4114	5.1	47
48	Cyclic polyamidato dianions as bridges between Mo(2)(4+) units: synthesis, crystal structures, electrochemistry, absorption spectra, and electronic structures. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 8900-10	16.4	44
47	Completion of the series of M2(hpp)4Cl2 compounds from W to Pt: the W, Os, and Pt compounds. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 2581-4	5.1	43
46	Quadridentate bridging EO(4)(2-) (E = S, Mo, W) ligands and their role as electronic bridges. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 2229-33	5.1	43
45	The first designed syntheses of bis-dimetal molecules in which the bridges are diamidate ligands. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 1354-6	5.1	40
44	Synthesis, structures, and properties of 1,2,4,5-benzenetetra-thiolate linked group 10 metal complexes. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10591-607	5.1	37
43	Synthesis, structures, and properties of mixed dithiolene-carbonyl and dithiolene-phosphine complexes of tungsten. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 2103-13	5.1	36

42	Synthesis of MoS <sub>2</sub> from [Mo <sub>3</sub> S <sub>7</sub> (S <sub>2</sub> CNEt <sub>2</sub> ) <sub>3</sub> ]I for enhancing photoelectrochemical performance and stability of Cu <sub>2</sub> O photocathode toward efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9569-9582	13	28
41	Strong Electronic Coupling between Mo <sub>2n+</sub> Units: The Oxidation Products of [Mo <sub>2</sub> (DAniF) <sub>3</sub> ] <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> and Mo <sub>2</sub> (DAniF) <sub>4</sub> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2005</b> , 631, 2606-2612	1.3	25
40	Binding of carboxylate and trimethylammonium salts to octa-acid and TEMOA deep-cavity cavitands. <i>Journal of Computer-Aided Molecular Design</i> , <b>2017</b> , 31, 21-28	4.2	24
39	Ancillary ligand effects upon dithiolene redox noninnocence in tungsten bis(dithiolene) complexes. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 6743-51	5.1	24
38	Redox-controlled interconversion between trigonal prismatic and octahedral geometries in a monodithiolene tetracarbonyl complex of tungsten. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 346-61	5.1	23
37	A structural and spectroscopic investigation of octahedral platinum bis(dithiolene)phosphine complexes: platinum dithiolene internal redox chemistry induced by phosphine association. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 9192-205	5.1	21
36	A tungsten-mediated closed cycle of reactivity for the reduction of CO <sub>2</sub> to CO. <i>Dalton Transactions</i> , <b>2010</b> , 39, 9662-71	4.3	20
35	Long-range spin coupling: a tetrakisphosphine-bridged palladium dimer. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 2995-3002	5.1	19
34	Reversible, electrochemically controlled binding of phosphine to iron and cobalt bis(dithiolene) complexes. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 5131-3	5.1	18
33	Tetrahydroberberine, a pharmacologically active naturally occurring alkaloid. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2015</b> , 71, 262-5	0.8	17
32	Synthesis of New Types of Dithiolene Ligands. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 5567-5572	5.1	16
31	The Hairpin Furans: Easily Prepared Hybrids of Helicenes and Twisted Acenes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13957-60	16.4	15
30	Preparation and isolation of dithiolene thiophosphoryl molecules as stable, protected forms of dithiolene ligands. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 3283-8	5.1	14
29	A convergent approach to the synthesis of multimetallic dithiolene complexes. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 5570-2	5.1	12
28	Synthesis and structural characterization of the molecular loop [cis-Mo <sub>2</sub> (N,N'-di-p-anisylformamidinate) <sub>2</sub> ] <sub>2</sub> (O <sub>2</sub> CCH <sub>2</sub> CO <sub>2</sub> ) <sub>2</sub> . <i>Inorganica Chimica Acta</i> , <b>2005</b> , 358, 1373-1376	2.7	11
27	Ligand Radicals as Modular Organic Electron Spin Qubits. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 17598-17605	4.8	11
26	Redox-Active Metallo-dithiolene Groups Separated by Insulating Tetrakisphosphinobenzene Spacers. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4023-4038	5.1	10
25	Synthesis and Structures of [LCu(I)(SSi(i)Pr <sub>3</sub> )] (L = triphos, carbene) and Related Compounds. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 9173-7	5.1	9

24	Expanding the Scope of Ligand Substitution from [M(SCPh)] (M = Ni, Pd, Pt) To Afford New Heteroleptic Dithiolene Complexes. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 10257-10267	5.1	9
23	3,4-Bis(1-adamantyl)-1,2-dithiete: the first structurally characterized dithiete unsupported by a ring or benzenoid frame. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1998</b> , 54 (Pt 8), 1175-8		7
22	An unusual trigonal D <sub>3</sub> assembly composed of molybdate anions and multiply bonded dimolybdenum units. <i>Dalton Transactions</i> , <b>2008</b> , 1547-51	4.3	7
21	Photocatalytic H-Evolution by Homogeneous Molybdenum Sulfide Clusters Supported by Dithiocarbamate Ligands. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16458-16474	5.1	7
20	Weak C-H...X (X = O, N) hydrogen bonds in the crystal structure of dihydroberberine. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2014</b> , 70, 388-91	0.8	6
19	The Hairpin Furans: Easily Prepared Hybrids of Helicenes and Twisted Acenes. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14163-14166	3.6	5
18	Hairpin Furans and Giant Biaryls. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 3838-47	4.2	5
17	An S <sub>4</sub> -symmetric mixed-valent decacopper cage comprised of [Cu(II)(L-S <sub>2</sub> N <sub>2</sub> )] complexes bridged by Cu(I)(MeCN) <sub>n</sub> (n = 1 or 2) cations. <i>Dalton Transactions</i> , <b>2016</b> , 45, 2997-3002	4.3	3
16	Self-Assembled Monolayers of Molybdenum Sulfide Clusters on Au Electrode as Hydrogen Evolution Catalyst for Solar Water Splitting. <i>Inorganics</i> , <b>2019</b> , 7, 79	2.9	3
15	Group 10 Metal Dithiolene Bis(isonitrile) Complexes: Synthesis, Structures, Properties, and Reactivity. <i>Organometallics</i> , <b>2020</b> , 39, 2854-2870	3.8	3
14	Synthesis and Structures of Polyphenylphenanthrenes. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8458-8468	4.4	2
13	The dithiolene ligand and tetrathiafulvalene precursor molecules 4,5-bis(bromomethyl)-1,3-dithiol-2-one and 4,5-bis[(dihydroxyphosphoryl)methyl]-1,3-dithiol-2-one. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2011</b> , 67, 0446-9		2
12	A Closer Look at the Hydroiodination of Propiolic Acid. <i>Synthetic Communications</i> , <b>2006</b> , 36, 3461-3471	1.7	2
11	A dibenzofuran derivative: 2-(pentyloxy)dibenzo[ <i>b</i> ]furan. <i>IUCrData</i> , <b>2018</b> , 3,	0.7	2
10	Synthesis of 4,5-Dimethyl-1,3-Dithiol-2-One <b>2009</b> , 333-343		2
9	A Simple, Serendipitous Synthesis of Heterohexahelicenes. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 6534-6538	3.2	1
8	An Asymmetric Edge-Sharing Biocuboctahedral Complex: (D <sub>2</sub> -DAniF)Mo <sup>III</sup> (EDAniF) <sub>2</sub> (EO,Cl)Mo <sup>V</sup> Cl <sub>2</sub> (DAniF=N,N'-di-p-anisylformamidinate). <i>Journal of Cluster Science</i> , <b>2003</b> , 14, 289-298	3	1
7	Crystal structure of tetra-iso-butyl-thiuram di-sulfide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2017</b> , 73, 1764-1769	0.7	1

- 6 Ethyl 2-[2-(4-oxo-4-chromen-2-yl)phenoxy]acetate. *IUCrData*, **2018**, 3, 0.7 1
- 5 Open-Ended Metallodithiolene Complexes with the 1,2,4,5-Tetrakis(diphenylphosphino)benzene Ligand: Modular Building Elements for the Synthesis of Multimetal Complexes. *Inorganic Chemistry*, **2021**, 60, 13177-13192 5.1 1
- 4 Richard Hadley Holm: A Remembrance and A Tribute. *Comments on Inorganic Chemistry*, **2022**, 42, 61-108, 9 0
- 3 Supramolecular Arrays Based on Dimolybdenum Building Blocks. *Inorganic Syntheses*, **2014**, 81-95
- 2 Crystal structure of  $[[\text{Mo}_3\text{Se}_7(\text{S}_2\text{CNEt}_2)_3]_2(\text{ESe})] \cdot 2(\text{C}_6\text{H}_4\text{Cl}_2)$ ,  $\text{C}_{42}\text{H}_{68}\text{Cl}_4\text{Mo}_6\text{N}_6\text{S}_{12}\text{Se}_{15}$ . *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2020**, 235, 739-743 0.2
- 1 Tetrakis-1,2,4,5-(bis(3,5-dimethylphenyl)phosphino)benzene ( $\text{Me}_6\text{tpbz}$ ): A soluble and spectroscopically simple variant of the 1,2,4,5-tetraphosphinobenzene ligand platform. *Polyhedron*, **2021**, 196, 114985 2.7