

# James Donahue

## 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.

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 | Richard Hadley Holm: A Remembrance and A Tribute. <i>Comments on Inorganic Chemistry</i> , <b>2022</b> , 42, 61-108,  | 3.9 | 0         |
| 58 | Tetrakis-1,2,4,5-(bis(3,5-dimethylphenyl)phosphino)benzene (Me16tpbz): A soluble and spectroscopically simple variant of the 1,2,4,5-tetraphosphinobenzene ligand platform. <i>Polyhedron</i> , <b>2021</b> , 196, 114985   | 2.7 |           |
| 57 | Open-Ended Metallodithiolene Complexes with the 1,2,4,5-Tetrakis(diphenylphosphino)benzene Ligand: Modular Building Elements for the Synthesis of Multimetal Complexes. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 13177-13192  | 5.1 | 1         |
| 56 | Synthesis and Structures of Polyphenylphenanthrenes. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8458-8469  | 4.6 | 2         |
| 55 | Crystal structure of $[[\text{Mo}_3\text{Se}_7(\text{S}_2\text{CNEt}_2)_3]_2(\text{ESe})] \cdot 2(\text{C}_6\text{H}_4\text{Cl}_2)$ , $\text{C}_{42}\text{H}_{68}\text{Cl}_4\text{Mo}_6\text{N}_6\text{S}_{12}\text{Se}_{15}$ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , <b>2020</b> , 235, 739-743 | 0.2 |           |
| 54 | Group 10 Metal Dithiolene Bis(isonitrile) Complexes: Synthesis, Structures, Properties, and Reactivity. <i>Organometallics</i> , <b>2020</b> , 39, 2854-2870  | 3.8 | 3         |
| 53 | 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         |
| 52 | A Simple, Serendipitous Synthesis of Heterohexahelicenes. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 6534-6538  | 3.2 | 1         |
| 51 | 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         |
| 50 | Synthesis of MoS <sub>2</sub> from $[\text{Mo}_3\text{S}_7(\text{S}_2\text{CNEt}_2)_3]\text{I}$ 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        |
| 49 | Redox-Active Metallodithiolene Groups Separated by Insulating Tetraphosphinobenzene Spacers. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4023-4038   | 5.1 | 10        |
| 48 | Ethyl 2-[2-(4-oxo-4-chromen-2-yl)phenoxy]acetate. <i>IUCrData</i> , <b>2018</b> , 3,  | 0.7 | 1         |
| 47 | A dibenzofuran derivative: 2-(pentyloxy)dibenzo[f]furan. <i>IUCrData</i> , <b>2018</b> , 3,   | 0.7 | 2         |
| 46 | Ligand Radicals as Modular Organic Electron Spin Qubits. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 17598-17605  | 4.8 | 1         |
| 45 | Expanding the Scope of Ligand Substitution from $[\text{M}(\text{SCPh})]$ (M = Ni, Pd, Pt) To Afford New Heteroleptic Dithiolene Complexes. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 10257-10267  | 5.1 | 9         |
| 44 | 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        |
| 43 | 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         |

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|----|--|------|----|
| 42 | 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  |
| 41 | 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  |
| 40 | Hairpin Furans and Giant Biaryls. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 3838-47  | 4.2  | 5  |
| 39 | Tetrahydroberberine, a pharmacologically active naturally occurring alkaloid. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2015</b> , 71, 262-5  | 0.8  | 17 |
| 38 | 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 |
| 37 | The Hairpin Furans: Easily Prepared Hybrids of Helicenes and Twisted Acenes. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14163-14166   | 3.6  | 5  |
| 36 | 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 |
| 35 | 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  |
| 34 | Supramolecular Arrays Based on Dimolybdenum Building Blocks. <i>Inorganic Syntheses</i> , <b>2014</b> , 81-95  |      |    |
| 33 | 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 |
| 32 | 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 |
| 31 | 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  |
| 30 | Long-range spin coupling: a tetrakisphosphine-bridged palladium dimer. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 2995-3002  | 5.1  | 19 |
| 29 | A tungsten-mediated closed cycle of reactivity for the reduction of CO(2) to CO. <i>Dalton Transactions</i> , <b>2010</b> , 39, 9662-71  | 4.3  | 20 |
| 28 | Synthesis, structures, and properties of 1,2,4,5-benzenetetrathiolate linked group 10 metal complexes. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10591-607  | 5.1  | 37 |
| 27 | 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 |
| 26 | Synthesis of 4,5-Dimethyl-1,3-Dithiol-2-One <b>2009</b> , 333-343  |      | 2  |
| 25 | 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  |

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|----|--|------|-----|
| 24 | A convergent approach to the synthesis of multimetallic dithiolene complexes. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 5570-2  | 5.1  | 12  |
| 23 | 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  |
| 22 | 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  |
| 21 | A Closer Look at the Hydroiodination of Propiolic Acid. <i>Synthetic Communications</i> , <b>2006</b> , 36, 3461-3471  | 1.7  | 2   |
| 20 | 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  |
| 19 | 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  |
| 18 | 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  |
| 17 | An Asymmetric Edge-Sharing Bioctahedral Complex: (DAniF)Mo <sup>III</sup> (EDAniF) <sub>2</sub> (ED,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   |
| 16 | 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 |
| 15 | 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  |
| 14 | 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  |
| 13 | 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  |
| 12 | 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 |
| 11 | 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  |
| 10 | 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 |
| 9  | Completion of the series of M <sub>2</sub> (hpp) <sub>4</sub> Cl <sub>2</sub> compounds from W to Pt: the W, Os, and Pt compounds. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 2581-4   | 5.1  | 43  |
| 8  | The Unperturbed Oxo-Sulfido 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  |
| 7  | 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   |

- 6 Synthesis, Structures, and Oxo Transfer Reactivity of Bis(dithiolene)tungsten(IV,VI) Complexes Related to the Active Sites of Tungstoenzymes. *Journal of the American Chemical Society*, **1998**, 120, 8102-8112 <sup>16.4</sup> <sup>114</sup>
- 5 Synthesis, Structures, and Reactivity of Bis(dithiolene)molybdenum(IV,VI) Complexes Related to the Active Sites of Molybdoenzymes. *Journal of the American Chemical Society*, **1998**, 120, 12869-12881 <sup>16.4</sup> <sup>118</sup>
- 4 Molybdenum and Tungsten Structural Analogues of the Active Sites of the MoIV + [O] -sMoVIO Oxygen Atom Transfer Couple of DMSO Reductases. *Journal of the American Chemical Society*, **1998**, 120, 3259-3260 <sup>16.4</sup> <sup>51</sup>
- 3 Comparative Kinetics of Oxo Transfer to Substrate Mediated by Bis(dithiolene)dioxomolybdenum and -tungsten Complexes. *Inorganic Chemistry*, **1998**, 37, 1602-1608 <sup>5.1</sup> <sup>103</sup>
- 2 Synthesis of New Types of Dithiolene Ligands. *Inorganic Chemistry*, **1995**, 34, 5567-5572 <sup>5.1</sup> <sup>16</sup>
- 1 A thermodynamic scale for oxygen atom transfer reactions. *Polyhedron*, **1993**, 12, 571-589 <sup>2.7</sup> <sup>167</sup>