

James Donahue

List of Publications by Year in descending order

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58
papers

1,942
citations

279487

23
h-index

243296

44
g-index

62
all docs

62
docs citations

62
times ranked

1633
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermodynamic scale for oxygen atom transfer reactions. <i>Polyhedron</i> , 1993, 12, 571-589.	1.0	188
2	The Simplest Supramolecular Complexes Containing Pairs of Mo ₂ (formamidinate) ₃ Units Linked with Various Dicarboxylates: A Preparative Methods, Structures, and Electrochemistry. <i>Inorganic Chemistry</i> , 2001, 40, 1234-1244.	1.9	137
3	Synthesis and Structures of Bis(dithiolene)molybdenum Complexes Related to the Active Sites of the DMSO Reductase Enzyme Family. <i>Inorganic Chemistry</i> , 2000, 39, 263-273.	1.9	128
4	Polyunsaturated Dicarboxylate Tethers Connecting Dimolybdenum Redox and Chromophoric Centers: A Syntheses, Structures, and Electrochemistry. <i>Journal of the American Chemical Society</i> , 2003, 125, 5436-5450.	6.6	127
5	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> , 1998, 120, 12869-12881.	6.6	126
6	Comparative Kinetics of Oxo Transfer to Substrate Mediated by Bis(dithiolene)dioxomolybdenum and -tungsten Complexes. <i>Inorganic Chemistry</i> , 1998, 37, 1602-1608.	1.9	120
7	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> , 1998, 120, 8102-8112.	6.6	119
8	Polyunsaturated Dicarboxylate Tethers Connecting Dimolybdenum Redox and Chromophoric Centers: A Absorption Spectra and Electronic Structures. <i>Journal of the American Chemical Society</i> , 2003, 125, 5486-5492.	6.6	71
9	Thermodynamic Scales for Sulfur Atom Transfer and Oxo-for-Sulfido Exchange Reactions. <i>Chemical Reviews</i> , 2006, 106, 4747-4783.	23.0	64
10	Molybdenum and Tungsten Structural Analogues of the Active Sites of the MoIV+ [O] and MoVIO Oxygen Atom Transfer Couple of DMSO Reductases. <i>Journal of the American Chemical Society</i> , 1998, 120, 3259-3260.	6.6	53
11	The Unperturbed Oxo-Sulfido Functional Group cis-MoVIOS Related to That in the Xanthine Oxidase Family of Molybdoenzymes: A Synthesis, Structural Characterization, and Reactivity Aspects. <i>Inorganic Chemistry</i> , 1999, 38, 4104-4114.	1.9	53
12	Quadridentate Bridging EO ₄ 2-(E = S, Mo, W) Ligands and Their Role as Electronic Bridges. <i>Inorganic Chemistry</i> , 2001, 40, 2229-2233.	1.9	48
13	Completion of the Series of M ₂ (hpp) ₄ Cl ₂ Compounds from W to Pt: The W, Os, and Pt Compounds. <i>Inorganic Chemistry</i> , 2000, 39, 2581-2584.	1.9	46
14	Cyclic Polyamidato Dianions as Bridges between Mo ₂ ⁴⁺ Units: A Synthesis, Crystal Structures, Electrochemistry, Absorption Spectra, and Electronic Structures. <i>Journal of the American Chemical Society</i> , 2003, 125, 8900-8910.	6.6	46
15	The First Designed Syntheses of Bis-dimetal Molecules in Which the Bridges Are Diamidate Ligands. <i>Inorganic Chemistry</i> , 2002, 41, 1354-1356.	1.9	45
16	Synthesis, Structures, and Properties of 1,2,4,5-Benzenetetra-thiolate Linked Group 10 Metal Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 10591-10607.	1.9	42
17	Synthesis, Structures, and Properties of Mixed Dithiolene-Carbonyl and Dithiolene-Phosphine Complexes of Tungsten. <i>Inorganic Chemistry</i> , 2009, 48, 2103-2113.	1.9	41
18	Synthesis of MoS ₂ from [Mo ₃ S ₇ (S ₂ CNEt ₂) ₃] for enhancing photoelectrochemical performance and stability of Cu ₂ O photocathode toward efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9569-9582.	5.2	33

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19	Binding of carboxylate and trimethylammonium salts to octa-acid and TEMOA deep-cavity cavitands. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 21-28.	1.3	30
20	Strong Electronic Coupling between Mo ²ⁿ⁺ Units: The Oxidation Products of [Mo ₂ (DAniF) ₃] ₂ (^{1/4} H) ₂ and Mo ₂ (DAniF) ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2606-2612.	0.6	26
21	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> , 2014, 53, 9192-9205.	1.9	26
22	Redox-Controlled Interconversion between Trigonal Prismatic and Octahedral Geometries in a Monodithiolene Tetracarbonyl Complex of Tungsten. <i>Inorganic Chemistry</i> , 2012, 51, 346-361.	1.9	25
23	The Hairpin Furans: Easily Prepared Hybrids of Helicenes and Twisted Acenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13957-13960.	7.2	25
24	Ancillary Ligand Effects upon Dithiolene Redox Noninnocence in Tungsten Bis(dithiolene) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6743-6751.	1.9	24
25	Long-Range Spin Coupling: A Tetrakisphosphine-Bridged Palladium Dimer. <i>Inorganic Chemistry</i> , 2011, 50, 2995-3002.	1.9	22
26	Reversible, Electrochemically Controlled Binding of Phosphine to Iron and Cobalt Bis(dithiolene) Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 5131-5133.	1.9	21
27	A tungsten-mediated closed cycle of reactivity for the reduction of CO ₂ to CO. <i>Dalton Transactions</i> , 2010, 39, 9662.	1.6	21
28	Tetrahydroberberine, a pharmacologically active naturally occurring alkaloid. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2015, 71, 262-265.	0.2	21
29	Synthesis of New Types of Dithiolene Ligands. <i>Inorganic Chemistry</i> , 1995, 34, 5567-5572.	1.9	18
30	Preparation and Isolation of Dithiolene Thiophosphoryl Molecules as Stable, Protected Forms of Dithiolene Ligands. <i>Inorganic Chemistry</i> , 2007, 46, 3283-3288.	1.9	17
31	Ligand Radicals as Modular Organic Electron Spin Qubits. <i>Chemistry - A European Journal</i> , 2018, 24, 17598-17605.	1.7	15
32	Redox-Active Metallodithiolene Groups Separated by Insulating Tetrakisphosphinobenzene Spacers. <i>Inorganic Chemistry</i> , 2018, 57, 4023-4038.	1.9	14
33	A Convergent Approach to the Synthesis of Multimetallic Dithiolene Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 5570-5572.	1.9	13
34			

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37	Photocatalytic H ₂ -Evolution by Homogeneous Molybdenum Sulfide Clusters Supported by Dithiocarbamate Ligands. <i>Inorganic Chemistry</i> , 2019, 58, 16458-16474.	1.9	11
38	Hairpin Furans and Giant Biaryls. <i>Journal of Organic Chemistry</i> , 2016, 81, 3838-3847.	1.7	10
39	An unusual trigonal D ₃ assembly composed of molybdate anions and multiply bonded dimolybdenum units. <i>Dalton Transactions</i> , 2008, , 1547.	1.6	8
40	Group 10 Metal Dithiolene Bis(isonitrile) Complexes: Synthesis, Structures, Properties, and Reactivity. <i>Organometallics</i> , 2020, 39, 2854-2870.	1.1	8
41	Synthesis and Structures of Polyphenylphenanthrenes. <i>Chemistry - A European Journal</i> , 2020, 26, 8458-8464.	1.7	8
42	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> , 1998, 54, 1175-1178.	0.4	7
43	Weak C-H...X (X= O, N) hydrogen bonds in the crystal structure of dihydroberberine. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 388-391.	0.2	7
44	A Closer Look at the Hydroiodination of Propiolic Acid. <i>Synthetic Communications</i> , 2006, 36, 3461-3471.	1.1	4
45	An S ₄ -symmetric mixed-valent decacopper cage comprised of [Cu ^{II} (L-S ₂ N ₂)] complexes bridged by Cu ^I (MeCN) _n (n = 1 or 2) cations. <i>Dalton Transactions</i> , 2016, 45, 2997-3002.	1.6	4
46	Self-Assembled Monolayers of Molybdenum Sulfide Clusters on Au Electrode as Hydrogen Evolution Catalyst for Solar Water Splitting. <i>Inorganics</i> , 2019, 7, 79.	1.2	4
47	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> , 2021, 60, 13177-13192.	1.9	3
48	Bis[1,2-bis(4-chlorophenyl)ethylene-1,2-dithiolato(1-)]nickel(II). <i>IUCrData</i> , 2022, 7, .	0.1	3
49	An Asymmetric Edge-Sharing Bioctahedral Complex: (Å ² -DAniF)MoIII(Å-DAniF)2(Å-O,Cl)MoVCl2(DAniF=N, N ² -di-p-anisylformamidinate). <i>Journal of Cluster Science</i> , 2003, 14, 289-298.	1.7	2
50	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> , 2011, 67, o446-o449.	0.4	2
51	A Simple, Serendipitous Synthesis of Heterohexahelicenes. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6534-6538.	1.2	2
52	Crystal structure of tetraisobutylthiuram disulfide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 1764-1769.	0.2	2
53	Ethyl 2-[2-(4-oxo-4H-chromen-2-yl)phenoxy]acetate. <i>IUCrData</i> , 2018, 3, .	0.1	2
54	A dibenzofuran derivative: 2-(pentyloxy)dibenzo[<i>b</i>][<i>d</i>]furan. <i>IUCrData</i> , 2018, 3, .	0.1	2

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55	Richard Hadley Holm: A Remembrance and A Tribute. Comments on Inorganic Chemistry, 2022, 42, 61-108.	3.0	2
56	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. Polyhedron, 2021, 196, 114985.	1.0	0
57	Crystal structure of [[Mo ₃ Se ₇ (S ₂ CNEt ₂) ₃] ₂ (¹ / ₄ -Se)] · 2(C ₆ H ₄ Cl ₂), C ₄₂ H ₆₈ Cl ₄ Mo ₆ N ₆ S ₁₂ Se ₁₅ . Zeitschrift Für Kristallographie – New Crystal Structures, 2020, 235, 739-743.	0.1	0
58	Tris[<i>N,N</i> -bis(3,5-di- <i>tert</i> -butylbenzyl)dithiocarbamato] ²⁻ [S ₂] ^{1/4} -sulfido-tris(¹ / ₄ -disulfido-triangulo-trimolybdenum(IV) iodide. IUCrData, 2020, 5, .	0.1	0