James Donahue

List of Publications by Year
in descending order

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58 papers	1,942 citations	279798 23 h-index	243625 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. Polyhedron, 1993, 12, 571-589.	2.2	188
2	The Simplest Supramolecular Complexes Containing Pairs of Mo2(formamidinate)3Units Linked with Various Dicarboxylates:Â Preparative Methods, Structures, and Electrochemistry. Inorganic Chemistry, 2001, 40, 1234-1244.	4.0	137
3	Synthesis and Structures of Bis(dithiolene)molybdenum Complexes Related to the Active Sites of the DMSO Reductase Enzyme Family. Inorganic Chemistry, 2000, 39, 263-273.	4.0	128
4	Polyunsaturated Dicarboxylate Tethers Connecting Dimolybdenum Redox and Chromophoric Centers:Â Syntheses, Structures, and Electrochemistry. Journal of the American Chemical Society, 2003, 125, 5436-5450.	13.7	127
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.	13.7	126
6	Comparative Kinetics of Oxo Transfer to Substrate Mediated by Bis(dithiolene)dioxomolybdenum and -tungsten Complexes. Inorganic Chemistry, 1998, 37, 1602-1608.	4.0	120
7	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.	13.7	119
8	Polyunsaturated Dicarboxylate Tethers Connecting Dimolybdenum Redox and Chromophoric Centers:Â Absorption Spectra and Electronic Structures. Journal of the American Chemical Society, 2003, 125, 5486-5492.	13.7	71
9	Thermodynamic Scales for Sulfur Atom Transfer and Oxo-for-Sulfido Exchange Reactions. Chemical Reviews, 2006, 106, 4747-4783.	47.7	64
10	Molybdenum and Tungsten Structural Analogues of the Active Sites of the MoIV+ [O] â†' MoVIO Oxygen Atom Transfer Couple of DMSO Reductases. Journal of the American Chemical Society, 1998, 120, 3259-3260.	13.7	53
11	The Unperturbed Oxoâ^'Sulfido Functional Groupcis-MoVIOS Related to That in the Xanthine Oxidase Family of Molybdoenzymes:Â Synthesis, Structural Characterization, and Reactivity Aspects. Inorganic Chemistry, 1999, 38, 4104-4114.	4.0	53
12	Quadridentate Bridging EO42-(E = S, Mo, W) Ligands and Their Role as Electronic Bridges. Inorganic Chemistry, 2001, 40, 2229-2233.	4.0	48
13	Completion of the Series of M2(hpp)4Cl2 Compounds from W to Pt:â€‰ The W, Os, and Pt Compounds. Inorganic Chemistry, 2000, 39, 2581-2584.	4.0	46
14	Cyclic Polyamidato Dianions as Bridges between Mo24+Units:Â Synthesis, Crystal Structures, Electrochemistry, Absorption Spectra, and Electronic Structures. Journal of the American Chemical Society, 2003, 125, 8900-8910.	13.7	46
15	The First Designed Syntheses of Bis-dimetal Molecules in Which the Bridges Are Diamidate Ligands. Inorganic Chemistry, 2002, 41, 1354-1356.	4.0	45
16	Synthesis, Structures, and Properties of 1,2,4,5-Benzenetetrathiolate Linked Group 10 Metal Complexes. Inorganic Chemistry, 2009, 48, 10591-10607.	4.0	42
17	Synthesis, Structures, and Properties of Mixed Dithiolene-Carbonyl and Dithiolene-Phosphine Complexes of Tungsten. Inorganic Chemistry, 2009, 48, 2103-2113.	4.0	41
18	Synthesis of MoS₂ from [Mo₃S₇(S₂CNEt₂)₃]I for enhancing photoelectrochemical performance and stability of Cu₂O photocathode toward efficient solar water splitting. Journal of Materials Chemistry A, 2018, 6, 9569-9582.	10.3	33

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19	Binding of carboxylate and trimethylammonium salts to octa-acid and TEMOA deep-cavity cavitands. Journal of Computer-Aided Molecular Design, 2017, 31, 21-28.	2.9	30
20	Strong Electronic Coupling between Mo2n+ Units: The Oxidation Products of [Mo2(DAniF)3]2(Î¼â^'H)2 and Mo2(DAniF)4. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2606-2612.	1.2	26
21	A Structural and Spectroscopic Investigation of Octahedral Platinum Bis(dithiolene)phosphine Complexes: Platinum Dithiolene Internal Redox Chemistry Induced by Phosphine Association. Inorganic Chemistry, 2014, 53, 9192-9205.	4.0	26
22	Redox-Controlled Interconversion between Trigonal Prismatic and Octahedral Geometries in a Monodithiolene Tetracarbonyl Complex of Tungsten. Inorganic Chemistry, 2012, 51, 346-361.	4.0	25
23	The Hairpin Furans: Easily Prepared Hybrids of Helicenes and Twisted Acenes. Angewandte Chemie - International Edition, 2015, 54, 13957-13960.	13.8	25
24	Ancillary Ligand Effects upon Dithiolene Redox Noninnocence in Tungsten Bis(dithiolene) Complexes. Inorganic Chemistry, 2013, 52, 6743-6751.	4.0	24
25	Long-Range Spin Coupling: A Tetraphosphine-Bridged Palladium Dimer. Inorganic Chemistry, 2011, 50, 2995-3002.	4.0	22
26	Reversible, Electrochemically Controlled Binding of Phosphine to Iron and Cobalt Bis(dithiolene) Complexes. Inorganic Chemistry, 2007, 46, 5131-5133.	4.0	21
27	A tungsten-mediated closed cycle of reactivity for the reduction of CO2 to CO. Dalton Transactions, 2010, 39, 9662.	3.3	21
28	Tetrahydroberberine, a pharmacologically active naturally occurring alkaloid. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 262-265.	0.5	21
29	Synthesis of New Types of Dithiolene Ligands. Inorganic Chemistry, 1995, 34, 5567-5572.	4.0	18
30	Preparation and Isolation of Dithiolene Thiophosphoryl Molecules as Stable, Protected Forms of Dithiolene Ligands. Inorganic Chemistry, 2007, 46, 3283-3288.	4.0	17
31	Ligand Radicals as Modular Organic Electron Spin Qubits. Chemistry - A European Journal, 2018, 24, 17598-17605.	3.3	15
32	Redox-Active Metallodithiolene Groups Separated by Insulating Tetraphosphinobenzene Spacers. Inorganic Chemistry, 2018, 57, 4023-4038.	4.0	14
33	A Convergent Approach to the Synthesis of Multimetallic Dithiolene Complexes. Inorganic Chemistry, 2008, 47, 5570-5572.	4.0	13
34			

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37	Photocatalytic H₂-Evolution by Homogeneous Molybdenum Sulfide Clusters Supported by Dithiocarbamate Ligands. Inorganic Chemistry, 2019, 58, 16458-16474.	4.0	11
38	Hairpin Furans and Giant Biaryls. Journal of Organic Chemistry, 2016, 81, 3838-3847.	3.2	10
39	An unusual trigonal D3 assembly composed of molybdate anions and multiply bonded dimolybdenum units. Dalton Transactions, 2008, , 1547.	3.3	8
40	Group 10 Metal Dithiolene Bis(isonitrile) Complexes: Synthesis, Structures, Properties, and Reactivity. Organometallics, 2020, 39, 2854-2870.	2.3	8
41	Synthesis and Structures of Polyphenylphenanthrenes. Chemistry - A European Journal, 2020, 26, 8458-8464.	3.3	8
42	3,4-Bis(1-adamantyl)-1,2-dithiete: the First Structurally Characterized Dithiete Unsupported by a Ring or Benzenoid Frame. Acta Crystallographica Section C: Crystal Structure Communications, 1998, 54, 1175-1178.	0.4	7
43	Weak Câ€”H...X(X= O, N) hydrogen bonds in the crystal structure of dihydroberberine. Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 388-391.	0.5	7
44	A Closer Look at the Hydroiodination of Propiolic Acid. Synthetic Communications, 2006, 36, 3461-3471.	2.1	4
45	An S₄-symmetric mixed-valent decacopper cage comprised of [Cu^{II}(L-S₂N₂)] complexes bridged by Cu^I(MeCN)_n (n = 1 or 2) cations. Dalton Transactions, 2016, 45, 2997-3002.	3.3	4
46	Self-Assembled Monolayers of Molybdenum Sulfide Clusters on Au Electrode as Hydrogen Evolution Catalyst for Solar Water Splitting. Inorganics, 2019, 7, 79.	2.7	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. Inorganic Chemistry, 2021, 60, 13177-13192.	4.0	3
48	Bis[1,2-bis(4-chlorophenyl)ethylene-1,2-dithiolato(1â€“)]nickel(II). IUCrData, 2022, 7, .	0.3	3
49	An Asymmetric Edge-Sharing Bioctahedral Complex: (Â2-DAniF)MoIII(Â-DAniF)2(Â-O,Cl)MoVCl2(DAniF=N,Nâ€²-di-p-anisylformamidinate). Journal of Cluster Science, 2003, 14, 289-298.	3.3	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. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, o446-o449.	0.4	2
51	A Simple, Serendipitous Synthesis of Heterohexahelicenes. European Journal of Organic Chemistry, 2019, 2019, 6534-6538.	2.4	2
52	Crystal structure of tetraisobutylthiuram disulfide. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1764-1769.	0.5	2
53	Ethyl 2-[2-(4-oxo-4H-chromen-2-yl)phenoxy]acetate. IUCrData, 2018, 3, .	0.3	2
54	A dibenzofuran derivative: 2-(pentyloxy)dibenzo[b,d]furan. IUCrData, 2018, 3, .	0.3	2

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55	Richard Hadley Holm: A Remembrance and A Tribute. Comments on Inorganic Chemistry, 2022, 42, 61-108.	5.2	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.	2.2	0
57	Crystal structure of [[Mo₃Se₇(S₂CNEt₂)₃]₂(Î¼-Se)] â‹…2(C₆H₄Cl₂), C₄₂H₆₈Cl₄Mo₆N₆S₁₂Se₁₅. Zeitschrift Fur Kristallographie-New Crystal Structures, 2020, 235, 739-742.	0.3	0
58	Tris[N,N-bis(3,5-di-tert-butylbenzyl)dithiocarbamato-Î¹²S,Sâ€²]-Î¼₃-sulfido-tris-Î¼₂-disulfido-triangulo-trimolybdenum(IV) iodide. IUCrData, 2020, 5, .	0.3	0