

The Oxo-Gate Hypothesis and DMSO Reductase: A Impl Interaction Involved in Enzymatic Electron Transfer

Inorganic Chemistry

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Reactions of Dimethylsulfoxide Reductase in the Presence of Dimethyl Sulfide and the Structure of the Dimethyl Sulfide-Modified Enzyme. <i>Biochemistry</i> , 2001, 40, 9810-9820.	1.2	39
2	Electronic Spectral Studies of Molybdenyl Complexes. 2. MCD Spectroscopy of [MoOS ₄]-Centers. <i>Inorganic Chemistry</i> , 2001, 40, 687-702.	1.9	35
3	Thermally Driven Intramolecular Charge Transfer in an Oxo-Molybdenum Dithiolate Complex. <i>Journal of the American Chemical Society</i> , 2001, 123, 10389-10390.	6.6	39
4	New Oxovanadium Bis(1,2-dithiolate) Compounds That Mimic the Hydrogen-Bonding Interactions at the Active Sites of Mononuclear Molybdenum Enzymes. <i>Inorganic Chemistry</i> , 2002, 41, 7086-7093.	1.9	19
5	Probing the Electronic Structure of [MoOS ₄]-Centers Using Anionic Photoelectron Spectroscopy. <i>Journal of the American Chemical Society</i> , 2002, 124, 10182-10191.	6.6	20
6	Atom transfer chemistry and electrochemical behavior of Mo(VI) and Mo(V) trispyrazolylborate complexes: new mononuclear and dinuclear species. <i>Inorganica Chimica Acta</i> , 2002, 337, 393-406.	1.2	33
7	Synthesis and EPR Characterization of New Models for the One-Electron Reduced Molybdenum Site of Sulfite Oxidase. <i>Inorganic Chemistry</i> , 2003, 42, 6194-6203.	1.9	39
8	Molybdenum. , 2003, , 415-527.		20
9	A Family of Dioxo-Molybdenum(VI) Complexes of N ₂ X Heteroscorpionate Ligands of Relevance to Molybdoenzymes. <i>Inorganic Chemistry</i> , 2004, 43, 7800-7806.	1.9	54
10	Isomerization and Oxygen Atom Transfer Reactivity in Oxo-Mo Complexes of Relevance to Molybdoenzymes. <i>Inorganic Chemistry</i> , 2004, 43, 7573-7575.	1.9	39
11	Modulation of Molybdenum-Centered Redox Potentials and Electron-Transfer Rates by Sulfur versus Oxygen Ligation. <i>Inorganic Chemistry</i> , 2004, 43, 7389-7395.	1.9	14
12	Nature of the Oxomolybdenum-Thiolate σ -Bond: Implications for Mo-S Bonding in Sulfite Oxidase and Xanthine Oxidase. <i>Inorganic Chemistry</i> , 2004, 43, 1625-1637.	1.9	25
13	Photoelectron Spectroscopy of the Doubly-Charged Anions [MIVO(mnt) ₂] ²⁻ (M = Mo, W; mnt =) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50 2</i> <i>American Chemical Society</i> , 2004, 126, 5119-5129.	6.6	23
14	Synthetic Analogues and Reaction Systems Relevant to the Molybdenum and Tungsten Oxotransferases. <i>Chemical Reviews</i> , 2004, 104, 1175-1200.	23.0	460
15	Oxomolybdenum Tetrathiolates with Sterically Encumbering Ligands: Modeling the Effect of a Protein Matrix on Electronic Structure and Reduction Potentials. <i>Inorganic Chemistry</i> , 2005, 44, 8216-8222.	1.9	17
16	Determination of the g-Tensors and Their Orientations for cis,trans-(L-N ₂ S ₂)MoVOX (X = Cl, SCH ₂ Ph) by Single-Crystal EPR Spectroscopy and Molecular Orbital Calculations. <i>Inorganic Chemistry</i> , 2005, 44, 1290-1301.	1.9	37
17	Vibrational Markers for the Open-Shell Character of Transition Metal Bis-dithiolenes: An Infrared, Resonance Raman, and Quantum Chemical Study. <i>Journal of the American Chemical Society</i> , 2006, 128, 4422-4436.	6.6	101
18	Understanding the Origin of Metal-Sulfur Vibrations in an Oxo-Molybdenum Dithiolene Complex: Relevance to Sulfite Oxidase. <i>Inorganic Chemistry</i> , 2006, 45, 967-976.	1.9	43

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20	Synthesis, characterization, and spectroscopy of model molybdopterin complexes. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1601-1616.	1.5	35
21	Spectroscopic and Electronic Structure Studies of Symmetrized Models for Reduced Members of the Dimethylsulfoxide Reductase Enzyme Family. <i>Journal of the American Chemical Society</i> , 2008, 130, 4628-4636.	6.6	30
22	Which functional groups of the molybdopterin ligand should be considered when modeling the active sites of the molybdenum and tungsten cofactors? A density functional theory study. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1053-1064.	1.1	23
23	Synthesis, characterization and structure of a low coordinate desoxomolybdenum cluster stabilized by a dithione ligand. <i>Dalton Transactions</i> , 2009, , 5023.	1.6	14
24	Assessment of density functional methods for the study of vanadium and rhenium complexes with thiolato ligands. <i>Computational and Theoretical Chemistry</i> , 2010, 941, 1-9.	1.5	32
25	Density Functional Theory Study of the Magnetic Circular Dichroism Spectra of Molybdenyl Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 6066-6076.	1.9	9
26	Generation of bis(dithiolene)dioxomolybdenum(vi) complexes from bis(dithiolene)monooxomolybdenum(iv) complexes by proton-coupled electron transfer in aqueous media. <i>Dalton Transactions</i> , 2011, 40, 2358.	1.6	12
27	Comparative molecular chemistry of molybdenum and tungsten and its relation to hydroxylase and oxotransferase enzymes. <i>Coordination Chemistry Reviews</i> , 2011, 255, 993-1015.	9.5	139
28	Pterin chemistry and its relationship to the molybdenum cofactor. <i>Coordination Chemistry Reviews</i> , 2011, 255, 1016-1038.	9.5	114
29	Molybdenum and tungsten oxygen transferases " structural and functional diversity within a common active site motif. <i>Metallomics</i> , 2014, 6, 15-24.	1.0	47
30	Bioinspired functional analogs of the active site of molybdenum enzymes: Intermediates and mechanisms. <i>Coordination Chemistry Reviews</i> , 2015, 300, 121-141.	9.5	51
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32	A Family of Homo- and Heteroscorpionate Ligands: Applications to Bioinorganic Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2377-2390.	1.0	21
33	Oxygen Atom Transfer Catalysis with Homogenous and Polymer-Supported N,N- and N,N,O-Heteroscorpionate Dioxidomolybdenum(VI) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2595-2602.	1.0	15
34	Chemical systems modeling the d1 Mo(V) states of molybdenum enzymes. <i>Journal of Inorganic Biochemistry</i> , 2016, 162, 238-252.	1.5	8
35	Mononuclear Molybdenum-Containing Enzymes. , 2018, , .		1
37	Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO ₂ Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17033-17037.	7.2	40

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39	Synthesis, structure and solid-state electrical conductivity of bis(1,2-diphenylethylene-1,2-dithiolate)nickel(II). <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	0.7	6
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42	Metal–Dithiolene Bonding Contributions to Pyranopterin Molybdenum Enzyme Reactivity. <i>Inorganics</i> , 2020, 8, 19.	1.2	13
43	Protonation and Non-Innocent Ligand Behavior in Pyranopterin Dithiolene Molybdenum Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 13728-13742.	1.9	5