

Mitchell R M Bruce

List of Publications by Year in descending order

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53
papers

1,255
citations

430874

18
h-index

377865

34
g-index

54
all docs

54
docs citations

54
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, structure, and electronic spectroscopy of neutral, dinuclear gold(I) complexes. Gold(I)-gold(I) interactions in solution and in the solid state. <i>Inorganic Chemistry</i> , 1993, 32, 2506-2517.	4.0	204
2	Solid State EXAFS and Luminescence Studies of Neutral, Dinuclear Gold(I) Complexes. Gold(I)-Gold(I) Interactions in the Solid State. <i>Inorganic Chemistry</i> , 1995, 34, 1996-2001.	4.0	145
3	Theoretical Studies on the Photochemistry of the Cis-to-Trans Conversion in Dinuclear Gold Halide Bis(diphenylphosphino)ethylene Complexes. <i>Journal of the American Chemical Society</i> , 1998, 120, 6587-6597.	13.7	74
4	Stripping Analyses of Mercury Using Gold Electrodes: Irreversible Adsorption of Mercury. <i>Analytical Chemistry</i> , 1999, 71, 3181-3186.	6.5	64
5	Electronic structures of the $(\eta^5\text{-C}_5\text{H}_5)_2\text{TiL}_2$ complexes (L = fluorine, chlorine, bromine, iodine, and) Tj ETQq1 1 0,784314.pdf / Over	13.7	55
6	Novel metallamacrocyclic gold(I) thiolate cluster complex: structure and luminescence of $[\text{Au}_9(\eta^4\text{-dppm})_4(\eta^4\text{-p-tc})_6](\text{PF}_6)_3$. <i>Chemical Communications</i> , 2005, , 1575-1577.	4.1	49
7	Formation of a Cationic Gold(I) Complex and Disulfide by Oxidation of the Antiarthritic Gold Drug Auranofin. <i>Inorganic Chemistry</i> , 2003, 42, 2203-2205.	4.0	43
8	Paying Attention to Gesture when Students Talk Chemistry: Interactional Resources for Responsive Teaching. <i>Journal of Chemical Education</i> , 2015, 92, 11-22.	2.3	43
9	Electrochemical and Chemical Oxidation of Gold(I) Thiolate Phosphine Complexes: Formation of Gold Clusters and Disulfide. <i>Journal of the American Chemical Society</i> , 1999, 121, 9225-9226.	13.7	40
10	Solvent effects on electron delocalization in paramagnetic organometallic complexes: solvent manipulation of the amount of 19-electron character in $\text{Co}(\text{CO})_3\text{L}_2$ (L2 = a chelating phosphine). <i>Journal of the American Chemical Society</i> , 1992, 114, 6418-6424.	13.7	33
11	Photochemical consequences of the manipulation of the lowest energy excited states by substitution of the Cp (Cp = $\eta^5\text{-cyclopentadienyl}$) ligands in titanium Cp_2TiX_2 (X = Br, I) complexes. <i>Inorganic Chemistry</i> , 1986, 25, 2546-2549.	4.0	31
12	Synthesis of water-soluble gold-aryl nanoparticles with distinct catalytic performance in the reduction of the environmental pollutant 4-nitrophenol. <i>Catalysis Science and Technology</i> , 2019, 9, 6059-6071.	4.1	29
13	Luminescence, structural, and bonding trends upon varying the halogen in isostructural aurophilic dimers. <i>Dalton Transactions</i> , 2009, , 1522-1533.	3.3	26
14	Electronic structure and photochemistry of the $(\eta^5\text{-C}_5\text{H}_5)_2\text{TiI}_2$ complex. <i>Organometallics</i> , 1985, 4, 528-533.	2.3	25
15	An Unprecedented Photochemical Cis to Trans Isomerization of Dinuclear Gold(I) Bis(diphenylphosphino)ethylene Complexes. <i>Journal of the American Chemical Society</i> , 1995, 117, 9596-9597.	13.7	25
16	Perspectives in Inorganic and Bioinorganic Gold Sulfur Chemistry. <i>Comments on Inorganic Chemistry</i> , 2002, 23, 321-334.	5.2	24
17	Insight into formation and reactivity of molybdenum(0) bent nitrenes. Crystal structure of a phosphine-phosphoramimine chelate. <i>Inorganic Chemistry</i> , 1993, 32, 2202-2206.	4.0	23
18	Descriptive photochemistry and electronic structure bis(cyclopentadienyl)oxomolybdenum and bis(methylcyclopentadienyl)oxomolybdenum complexes. <i>Inorganic Chemistry</i> , 1988, 27, 4669-4676.	4.0	20

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19	Reactions of molybdenum(0) tricarbonyl complexes with 8-azidoquinoline. Crystal structure of the phosphinimine complex Mo(CO) ₄ [N(PPh ₃)(C ₉ H ₆ N)] and evidence for a bent nitrene. <i>Inorganic Chemistry</i> , 1991, 30, 3241-3243.	4.0	18
20	Cyclic Voltammetry of Auranofin. <i>Metal-Based Drugs</i> , 1999, 6, 233-238.	3.8	18
21	[$\frac{1}{4}$ -o-Phenylenebis(diphenylphosphine)- μ_2 P-Pa μ_2]bis[chlorogold(I)], dppbz(AuCl) ₂ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, m84-m86.	0.4	18
22	Students'™ Understanding of Analogy after a CORE (Chemical Observations, Representations,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 92, 1626-1638.	2.3	18
23	Conceptual Developments of Aryldiazonium Salts as Modifiers for Gold Colloids and Surfaces. <i>Langmuir</i> , 2021, 37, 8897-8907.	3.5	17
24	Structure and Photochemical Isomerization of the Dinuclear Gold(I) Halide Bis(diphenylphosphanyl)ethylene Complexes: Correlation Between Quantum Yield and Auophilicity. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4946-4951.	2.0	15
25	Formation of separated versus contact ion pairs in alkali metal thiolates and selenolates. <i>Dalton Transactions RSC</i> , 2000, , 2167-2173.	2.3	14
26	An infrared spectroscopic based method for mercury(II) detection in aqueous solutions. <i>Analytica Chimica Acta</i> , 2012, 728, 57-63.	5.4	14
27	Application of structural analogs of dimercaptosuccinic acid-functionalized silica nanoparticles (DMSA-[silica]) to adsorption of mercury, cadmium, and lead. <i>Research on Chemical Intermediates</i> , 2011, 37, 791-810.	2.7	12
28	InterChemNet: Integrating Instrumentation, Management, and Assessment in the General Chemistry Laboratory Course. <i>Journal of Chemical Education</i> , 2006, 83, 494.	2.3	11
29	Preferential adsorption of mercury(II) ions in water: chelation of mercury, cadmium, and lead ions to silica derivatized with meso-2,3-dimercaptosuccinic acid. <i>Journal of Coordination Chemistry</i> , 2010, 63, 731-741.	2.2	11
30	Photochemistry and electronic structure of the bis(η -5-cyclopentadienyl)titanium sulfide [(η -5-C ₅ H ₅) ₂ TiS ₂] complex. <i>Journal of the American Chemical Society</i> , 1984, 106, 6660-6664.	13.7	10
31	Designing a Remote, Synchronous, Hands-On General Chemistry Lab Course. <i>Journal of Chemical Education</i> , 2021, 98, 3131-3142.	2.3	10
32	Redox Chemistry of Gold(I) Phosphine Thiolates: Sulfur-Based Oxidation. <i>Metal-Based Drugs</i> , 1994, 1, 419-431.	3.8	9
33	A Simple, Student-Built Spectrometer To Explore Infrared Radiation and Greenhouse Gases. <i>Journal of Chemical Education</i> , 2016, 93, 1908-1915.	2.3	9
34	Photochemistry and electronic structure of the (η -5-C ₅ H ₅) ₂ MoS ₂ complex. <i>Organometallics</i> , 1984, 3, 1610-1614.	2.3	8
35	Reactions of Organic Disulfides and Gold(I) Complexes. <i>Metal-Based Drugs</i> , 1999, 6, 247-253.	3.8	8
36	Syntheses and crystal structures of ferrocenyl derivatives of biphenyl. <i>Russian Chemical Bulletin</i> , 2003, 52, 607-615.	1.5	8

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37	Thermotropic liquid crystals based on ferrocenylbiphenyl and ferrocenylterphenyl. <i>Liquid Crystals</i> , 2006, 33, 485-494.	2.2	7
38	Electrochemical polymerization of aniline on carbon-coated aluminum electrodes for energy storage. <i>Journal of Power Sources</i> , 2012, 219, 285-291.	7.8	7
39	Identification of dimethyl sulfide in dimethyl sulfoxide and implications for metal-thiolate disulfide exchange reactions. <i>RSC Advances</i> , 2015, 5, 40603-40606.	3.6	7
40	Disulfide Competition for Phosphine Gold(I) Thiolates: Phosphine Oxide Formation vs. Thiolate Disulfide Exchange. <i>Inorganics</i> , 2015, 3, 40-54.	2.7	6
41	A Professional Development Activity to Help Teaching Assistants Work as a Team to Assess Lab Reports in a General Chemistry Course. <i>Israel Journal of Chemistry</i> , 2019, 59, 536-545.	2.3	6
42	Synthesis, crystal and molecular structure of gold(I) thiophenolate with 4-ferrocenyl[1,1'-biphenyl]isocyanides. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 304-309.	1.8	5
43	Polymers and Cross-Linking: A CORE Experiment To Help Students Think on the Submicroscopic Level. <i>Journal of Chemical Education</i> , 2016, 93, 1599-1605.	2.3	5
44	The influence of gold(I) on the mechanism of thiolate, disulfide exchange. <i>Dalton Transactions</i> , 2016, 45, 11261-11266.	3.3	5
45	Creating Representation in Support of Chemical Reasoning to Connect Macroscopic and Submicroscopic Domains of Knowledge. <i>Journal of Chemical Education</i> , 2022, 99, 1734-1746.	2.3	5
46	Self-consistent-field-X-ray-scattered-wave molecular orbital calculation of [CpMoS(η^4 -S)] ₂ , a molecule that undergoes a photochemically induced isomerization. <i>Polyhedron</i> , 1985, 4, 2073-2081.	2.2	4
47	Electrochemical piezoelectric sensors for trace ionic contaminants. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1998, 45, 1408-1415.	3.0	4
48	Electronic and Steric Effects in Gold(I) Phosphine Thiolate Complexes. <i>Metal-Based Drugs</i> , 1994, 1, 405-417.	3.8	3
49	The influence of zinc(II) on thioredoxin/glutathione disulfide exchange: QM/MM studies to explore how zinc(II) accelerates exchange in higher dielectric environments. <i>Metallomics</i> , 2015, 7, 1265-1273.	2.4	3
50	Heavy metal detection combining stripping electrochemistry and piezoelectric sensor technology. , 1998, , .		2
51	The synthesis of triethylphosphine gold(I) 4-nitrobenzenethiolate and solvent dependent visible absorption spectra of 4-nitrobenzenethiolate. <i>Inorganica Chimica Acta</i> , 2010, 363, 279-282.	2.4	2
52	Electronic Structure of Dinuclear Gold(I) Complexes. <i>Metal-Based Drugs</i> , 1999, 6, 255-260.	3.8	1
53	η^4 -Biphenyl-2,2'-dithiolato- η^2 S ₂ S ₂ -bis[(triphenylphosphine) η^1 P]gold(I)]. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2004, 60, m440-m442.	0.4	1