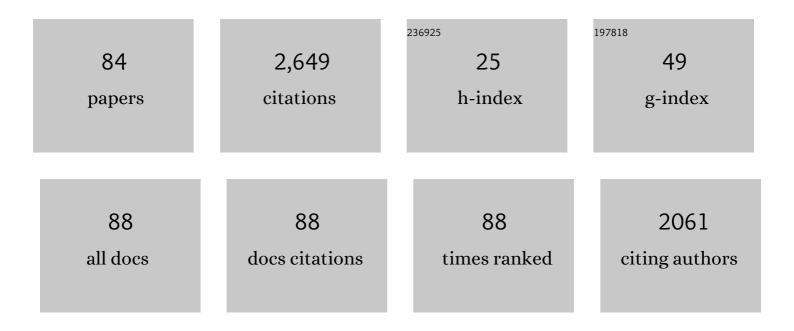
Craig A Grapperhaus

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9521832/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Oxygen Capture by Sulfur in Nickel Thiolates. Accounts of Chemical Research, 1998, 31, 451-459. | 15.6 | 321 |
| 2 | Mononuclear (Nitrido)iron(V) and (Oxo)iron(IV) Complexes via Photolysis of [(cyclam-acetato)FeIII(N3)]+ and Ozonolysis of [(cyclam-acetato)FeIII(O3SCF3)]+ in Water/Acetone Mixtures. Inorganic Chemistry, 2000, 39, 5306-5317. | 4.0 | 301 |
| 3 | Structural, Spectroscopic, and Computational Study of an Octahedral, Non-Heme {Feâ^'NO}6-8Series:Â [Fe(NO)(cyclam-ac)]2+/+/0. Journal of the American Chemical Society, 2004, 126, 5138-5153. | 13.7 | 195 |
| 4 | Metal-Assisted Ligand-Centered Electrocatalytic Hydrogen Evolution upon Reduction of a Bis(thiosemicarbazonato)Cu(II) Complex. Inorganic Chemistry, 2017, 56, 11254-11265. | 4.0 | 102 |
| 5 | Beyond Metal-Hydrides: Non-Transition-Metal and Metal-Free Ligand-Centered Electrocatalytic Hydrogen Evolution and Hydrogen Oxidation. Journal of the American Chemical Society, 2016, 138, 7844-7847. | 13.7 | 97 |
| 6 | Methylation of Tethered Thiolates in [(bme-daco)Zn]2 and [(bme-daco)Cd]2 as a Model of Zinc Sulfur-Methylation Proteins. Inorganic Chemistry, 1998, 37, 4052-4058. | 4.0 | 88 |
| 7 | Synthesis and Oxygenation of a Nickel(II) and Zinc(II) Dithiolate:Â An Experimental and Theoretical Comparison. Inorganic Chemistry, 2004, 43, 2859-2866. | 4.0 | 70 |
| 8 | Proposed Ligand-Centered Electrocatalytic Hydrogen Evolution and Hydrogen Oxidation at a Noninnocent Mononuclear Metal–Thiolate. Journal of the American Chemical Society, 2015, 137, 9238-9241. | 13.7 | 67 |
| 9 | Unique Reactivity of a Tetradentate N2S2Complex of Nickel:Â Intermediates in the Production of Sulfur Oxygenates. Inorganic Chemistry, 2002, 41, 1837-1844. | 4.0 | 61 |
| 10 | Ligand-Assisted Metal-Centered Electrocatalytic Hydrogen Evolution upon Reduction of a Bis(thiosemicarbazonato)Ni(II) Complex. Inorganic Chemistry, 2018, 57, 13486-13493. | 4.0 | 58 |
| 11 | Template Effect for O2Addition acrosscis-Sulfur Sites in Nickel Dithiolates. Journal of the American Chemical Society, 1996, 118, 1791-1792. | 13.7 | 57 |
| 12 | Singlet Oxygen and the Production of Sulfur Oxygenates of Nickel(II) and Palladium(II) Thiolates. Inorganic Chemistry, 1997, 36, 1860-1866. | 4.0 | 56 |
| 13 | Subtle Bite-Angle Influences on N2S2Ni Complexes. Inorganic Chemistry, 2001, 40, 3601-3605. | 4.0 | 50 |
| 14 | Antifungal activity of thiosemicarbazones, bis(thiosemicarbazones), and their metal complexes. Journal of Inorganic Biochemistry, 2021, 225, 111620. | 3.5 | 48 |
| 15 | First {Feâ^'NO}6Complex with an N2S3Feâ^'NO Core as a Model of NO-Inactivated Iron-Containing Nitrile Hydratase. Are Thiolates and Thioethers Equivalent Donors in Low-Spin Iron Complexes?. Inorganic Chemistry, 2002, 41, 1039-1041. | 4.0 | 47 |
| 16 | Synthesis and Characterization of N2S3Xâ^'Fe Models of Iron-Containing Nitrile Hydratase. Inorganic Chemistry, 2003, 42, 4382-4388. | 4.0 | 43 |
| 17 | Metal-Stabilized Thiyl Radicals as Scaffolds for Reversible Alkene Addition via C–S Bond Formation/Cleavage. Inorganic Chemistry, 2011, 50, 9904-9914. | 4.0 | 43 |
| 18 | Density functional theory investigations of NiN2S2 reactivity as a function of nitrogen donor type and N–H···S hydrogen bonding inspired by nickel-containing superoxide dismutase. Journal of Biological Inorganic Chemistry, 2006, 11, 617-625. | 2.6 | 42 |

CRAIG A GRAPPERHAUS

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Synthesis, Characterization, and Biological Activity of Hybrid Thiosemicarbazone–Alkylthiocarbamate Metal Complexes. Inorganic Chemistry, 2020, 59, 4924-4935. | 4.0 | 40 |
| 20 | Synthesis and Sulfur Oxygenation of a (N ₃ S)Ni Complex Related to Nickel-Containing Superoxide Dismutase. Inorganic Chemistry, 2009, 48, 9974-9976. | 4.0 | 39 |
| 21 | Redox-Regulated Ethylene Binding to a Rhenium-Thiolate Complex. Journal of the American Chemical Society, 2009, 131, 64-65. | 13.7 | 35 |
| 22 | Dichloromethane Alkylates a Trithiolato-Ruthenium Complex to Yield a Methylene-Bridged Thioether Core. Synthesis and Structural Comparison to the Thiolato-Ruthenium Precursor. Inorganic Chemistry, 2002, 41, 4309-4311. | 4.0 | 33 |
| 23 | An Experimental and Computational Study of Sulfur-Modified Nucleophilicity in a Dianionic NiN ₂ S ₂ Complex. Inorganic Chemistry, 2007, 46, 7536-7544. | 4.0 | 30 |
| 24 | Hg(II) and Cd(II) complexes with mixed donor macrocyclic thioethers: The oxophobicity of mercury(II). Polyhedron, 2008, 27, 3097-3104. | 2.2 | 30 |
| 25 | Spin-state-dependent oxygen sensitivity of iron dithiolates: sulfur oxygenation or disulfide formation. Journal of Biological Inorganic Chemistry, 2008, 13, 1219-1230. | 2.6 | 28 |
| 26 | Asymmetric Oxygenation of a Ruthenium Dithiolate Mimics the Mixed Sulfenato/Sulfinato Donor Sets of Nitrile Hydratase and Thiocyanate Hydrolase. Inorganic Chemistry, 2010, 49, 5344-5346. | 4.0 | 26 |
| 27 | Singlet Diradical Character of an Oxidized Ruthenium Trithiolate: Electronic Structure and Reactivity. Angewandte Chemie - International Edition, 2007, 46, 4085-4088. | 13.8 | 25 |
| 28 | Molecular and Electronic Structure of [MnVN(cyclamâ^'acetato)]PF6. A Combined Experimental and DFT Study. Inorganic Chemistry, 2001, 40, 4191-4198. | 4.0 | 24 |
| 29 | Oxygenation of a Ruthenium(II) Thiolate to a Ruthenium(II) Sulfinate Proceeds via Ruthenium(III). Inorganic Chemistry, 2005, 44, 8185-8187. | 4.0 | 24 |
| 30 | Controlled Sulfur Oxygenation of the Ruthenium Dithiolate (4,7-Bis-(2â€2-methyl-2â€2-mercaptopropyl)-1-thia-4,7-diazacyclononane)RuPPh ₃ under Limiting O ₂ Conditions Yields Thiolato/Sulfinato, Sulfenato/Sulfinato, and Bis-Sulfinato Derivatives. Inorganic Chemistry, 2010, 49, 10875-10881. | 4.0 | 24 |
| 31 | Influence of Sequential Thiolate Oxidation on a Nitrile Hydratase Mimic Probed by Multiedge X-ray Absorption Spectroscopy. Inorganic Chemistry, 2012, 51, 6032-6045. | 4.0 | 24 |
| 32 | Electrochemical Investigations of the [Tris(2-(diphenylphosphino)thiaphenolato)ruthenate(II)] Monoanion Reveal Metal- and Ligand-Centered Events: Radical, Reactivity, and Rate. Inorganic Chemistry, 2004, 43, 3292-3298. | 4.0 | 23 |
| 33 | Electrocatalytic Hydrogen Evolution and Oxidation with Rhenium Tris(thiolate) Complexes: A Competition between Rhenium and Sulfur for Electrons and Protons. ACS Catalysis, 2020, 10, 3778-3789. | 11.2 | 22 |
| 34 | Carbon-Sulfur Bond Formation between a Ruthenium-Coordinated Thiyl Radical and Methyl Ketones. Angewandte Chemie - International Edition, 2005, 44, 1883-1887. | 13.8 | 21 |
| 35 | Synthesis and structure of the tetradeca-iron(III) oxide–alkoxide cluster [Bu4N]2[Fe14O8(OCH2CH3)20Cl8]. Inorganic Chemistry Communication, 2006, 9, 1204-1206. | 3.9 | 20 |
| 36 | Carbonâ^'Sulfur Bond Formation via Alkene Addition to an Oxidized Ruthenium Thiolate. Inorganic Chemistry, 2007, 46, 8044-8050. | 4.0 | 19 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Exploiting Metal–Ligand Cooperativity to Sequester, Activate, and Reduce Atmospheric Carbon Dioxide with a Neutral Zinc Complex. Inorganic Chemistry, 2020, 59, 4835-4841. | 4.0 | 19 |
| 38 | Bioinspired catalytic nitrile hydration by dithiolato, sulfinato/thiolato, and sulfenato/sulfinato ruthenium complexes. Chemical Communications, 2013, 49, 294-296. | 4.1 | 18 |
| 39 | Correlation of electrochemistry, nucleophilicity and density functional calculations of the cis-dithiolate (bme*-daco)Ni. Inorganica Chimica Acta, 2000, 300-302, 73-81. | 2.4 | 17 |
| 40 | Electrocatalytic Hydrogen Evolution and Hydrogen Oxidation with a Ni(PS) ₂ Complex. European Journal of Inorganic Chemistry, 2017, 2017, 3714-3719. | 2.0 | 17 |
| 41 | The pH and Potential Dependence of Pb atalyzed Electrochemical CO ₂ Reduction to Methyl Formate in a Dual Methanol/Water Electrolyte. ChemSusChem, 2022, 15, . | 6.8 | 17 |
| 42 | Synthesis and Dimer Cleavage Reactions of the N2S Thiolate Bridged Dimer [(mmp-dach)2Ni2]Cl2. Inorganic Chemistry, 1999, 38, 3698-3703. | 4.0 | 16 |
| 43 | Kinetic study of nickel-thiolate oxygenation by hydrogen peroxide. Implications for nickel-containing superoxide dismutase. Dalton Transactions, 2012, 41, 364-366. | 3.3 | 16 |
| 44 | Translation of Ligand-Centered Hydrogen Evolution Reaction Activity and Mechanism of a Rhenium-Thiolate from Solution to Modified Electrodes: A Combined Experimental and Density Functional Theory Study. Inorganic Chemistry, 2017, 56, 2177-2187. | 4.0 | 16 |
| 45 | Kinetic Effects of Sulfur Oxidation on Catalytic Nitrile Hydration: Nitrile Hydratase Insights from Bioinspired Ruthenium(II) Complexes. Inorganic Chemistry, 2014, 53, 12372-12377. | 4.0 | 15 |
| 46 | Chemiresistive metal-stabilized thiyl radical films as highly selective ethylene sensors. RSC Advances, 2014, 4, 46787-46790. | 3.6 | 14 |
| 47 | Utilizing Charge Effects and Minimizing Intramolecular Proton Rearrangement to Improve the Overpotential of a Thiosemicarbazonato Zinc HER Catalyst. Inorganic Chemistry, 2019, 58, 12986-12997. | 4.0 | 14 |
| 48 | Substrate Binding Preferences and p <i>K</i> _a Determinations of a Nitrile Hydratase Model Complex: Variable Solvent Coordination to [(bmmp-TASN)Fe]OTf. Inorganic Chemistry, 2009, 48, 2300-2308. | 4.0 | 13 |
| 49 | Structural comparison of alkylated derivatives of (bmmp-dmed)Ni and (bmmp-dmed)Zn. Inorganica Chimica Acta, 2005, 358, 623-632. | 2.4 | 12 |
| 50 | Copper catalysed aerobic oxidation of benzylic alcohols in an imidazole containing N ₄ ligand framework. Dalton Transactions, 2016, 45, 18356-18364. | 3.3 | 12 |
| 51 | Photocatalytic hydrogen evolution on Si photocathodes modified with bis(thiosemicarbazonato)nickel(<scp>ii</scp>)/Nafion. Chemical Communications, 2019, 55, 9440-9443. | 4.1 | 12 |
| 52 | Direct Deposition of Nonaqueous SnO2 Dispersion by Blade Coating on Perovskites for the Scalable Fabrication of p–i–n Perovskite Solar Cells. ACS Applied Energy Materials, 0, , . | 5.1 | 12 |
| 53 | Alkyne Addition to a Metal-Stabilized Thiyl Radical: Carbon-Sulfur Bond Formation between 1-Octyne and [Ru(SP)3]+. European Journal of Inorganic Chemistry, 2012, 2012, 475-478. | 2.0 | 11 |
| 54 | Reversible methanol addition to copper Schiff base complexes: a kinetic, structural and spectroscopic study of reactions at azomethine Cî€N bonds. Dalton Transactions, 2016, 45, 15791-15799. | 3.3 | 11 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Ligand-Centered Hydrogen Evolution with Ni(II) and Pd(II)DMTH. Inorganic Chemistry, 2022, 61, 9792-9800. | 4.0 | 10 |
| 56 | Synthesis, Characterization, and HER Activity of Pendant Diamine Derivatives of NiATSM. European Journal of Inorganic Chemistry, 2019, 2019, 3782-3790. | 2.0 | 9 |
| 57 | Copper bis(thiosemicarbazone) Complexes with Pendent Polyamines: Effects of Proton Relays and Charged Moieties on Electrocatalytic HER. European Journal of Inorganic Chemistry, 2021, 2021, 267-275. | 2.0 | 9 |
| 58 | Alkylation-Induced O-Atom Rearrangement in Nickel S-Oxygenates. Organometallics, 1998, 17, 4813-4821. | 2.3 | 8 |
| 59 | Selective and Reversible Base-Induced Elimination of a Ruthenium Dithioether Yields a Vinyl Metallosulfonium Complex. Inorganic Chemistry, 2012, 51, 7913-7920. | 4.0 | 8 |
| 60 | DNA-induced assembly of gold nanoprisms and polystyrene beads into 3D plasmonic SERS substrates. Nanotechnology, 2021, 32, 025506. | 2.6 | 8 |
| 61 | 1,5-Bis(benzothiazolyl)-3-thiapentane and its asymmetric dinuclear Ag(i) complex with three distinct intermolecular-stacking interactionsElectronic supplementary information (ESI) available: 3D rotatable structures of 2 and 3. See http://www.rsc.org/suppdata/cc/b2/b204843d/. Chemical Communications. 2002. , 1792-1793. | 4.1 | 7 |
| 62 | Addition of polysubstituted alkenes, aromatic alkynes, and dienes to a metal-stabilized thiyl radical via carbon–sulfur bond formation: Electrochemical, chemical, and computational investigations. Inorganica Chimica Acta, 2013, 408, 1-8. | 2.4 | 7 |
| 63 | Hydrogen-bond networks in the mono- and diprotonated cyclic diamine [9]aneN2S. Journal of Chemical Crystallography, 2004, 34, 5-11. | 1.1 | 6 |
| 64 | Template synthesis of N2S and N3S chelates via alkylation of bis(2-aminoethanethiolato)Ni: sulfur- and nitrogen-centered alkylations. Inorganica Chimica Acta, 2005, 358, 123-130. | 2.4 | 6 |
| 65 | 1,5-Diazacyclooctane, Pendant Arm Thiolato Derivatives and [N,N′ -Bis(2-Mercaptoethyl)-1,5-Diazacyclooctanato]Nickel(II). Inorganic Syntheses, 2007, , 89-98. | 0.3 | 6 |
| 66 | N2S3X-Fe Models of Nitrile Hydratase. ACS Symposium Series, 2009, , 99-113. | 0.5 | 6 |
| 67 | Probing the Reactivity and Radical Nature of Oxidized Transition Metal-Thiolate Complexes by Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2013, 24, 502-512. | 2.8 | 6 |
| 68 | Effect of Stacking Interactions on the Translation of Structurally Related Bis(thiosemicarbazonato)nickel(II) HER Catalysts to Modified Electrode Surfaces. Inorganic Chemistry, 2019, 58, 12025-12039. | 4.0 | 6 |
| 69 | Syntheses, structures, and electrochemical studies of N,N′-bis(alkylthiocarbamate)butane-2,3-diimine Cu(II) complexes as pendent alkoxy derivatives of Cu(ATSM). Inorganica Chimica Acta, 2017, 461, 45-51. | 2.4 | 5 |
| 70 | Streams, cascades, and pools: various water cluster motifs in structurally similar Ni(<scp>ii</scp>) complexes. CrystEngComm, 2018, 20, 7071-7081. | 2.6 | 5 |
| 71 | cis-Dioxocyclam. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o226-o227. | 0.4 | 4 |
| 72 | Facet-selective asymmetric functionalization of anisotropic gold nanoprisms for Janus particle synthesis. Journal of Nanoparticle Research, 2020, 22, 1. | 1.9 | 4 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Synthesis, Structure, and Solution Properties of [(mim-TASN)FeCl ₂] ⁺ and Its μ-Oxo Derivative. Inorganic Chemistry, 2010, 49, 10427-10435. | 4.0 | 3 |
| 74 | N-(2-formyl-1-methylimidazol-4-yl)-2,2-dimethylpropanamide: a versatile reagent for preparing imidazole-amine ligands with variable second-coordination spheres. Tetrahedron Letters, 2011, 52, 4771-4774. | 1.4 | 3 |
| 75 | Supramolecular assembly of a dinuclear Ag(I) complex with discreet Ag2S2 centers. Inorganic Chemistry Communication, 2009, 12, 1091-1093. | 3.9 | 2 |
| 76 | Metal-centered oxidation decreases nitrile hydration activity of bioinspired (N2S3)Ru-PPh3 precatalysts. Inorganic Chemistry Communication, 2015, 61, 197-199. | 3.9 | 2 |
| 77 | Water wire clusters in isostructural Cu(II) and Ni(II) complexes: Synthesis, characterization, and thermal analyses. Inorganica Chimica Acta, 2019, 492, 268-274. | 2.4 | 2 |
| 78 | DNA-mediated hierarchical organization of gold nanoprisms into 3D aggregates and their application in surface-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2021, 23, 25256-25263. | 2.8 | 2 |
| 79 | Solvation of NiOx for hole transport layer deposition in perovskite solar cells. Nanotechnology, 2021, 33, . | 2.6 | 2 |
| 80 | Investigations of Bis(alkylthiocarbamato)copper Linkage Isomers. Inorganic Chemistry, 2022, 61, 7715-7719. | 4.0 | 2 |
| 81 | Ethyl 1-methylimidazole-2-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o1548-o1549. | 0.2 | 1 |
| 82 | {3,3′-[Ethane-1,2-diylbis(methylimino)]bis(propane-1-thiolato)}nickel(II). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2281-m2281. | 0.2 | 1 |
| 83 | Reinvestigation of the first structurally characterized metal-coordinated sulfenic acid complex. Inorganic Chemistry Communication, 2013, 37, 186-188. | 3.9 | 1 |
| 84 | Sulfur Oxygenation Enhances Ligand Exchange in Nitrile-Hydratase-Inspired Ruthenium(II) Complexes. ACS Symposium Series, 2013, , 71-87. | 0.5 | 1 |