

# Javier GarcÃ-a-Tojal

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis and spectroscopic properties of copper(II) complexes derived from thiophene-2-carbaldehyde thiosemicarbazone. Structure and biological activity of $[\text{Cu}(\text{C}_6\text{H}_6\text{N}_3\text{S}_2)_2]$ . Journal of Inorganic Biochemistry, 1999, 75, 45-54.	1.5	113
2	Versatility of the Nature of the Magnetic Gadolinium(III)-Vanadium(IV) Interaction - Structure and Magnetic Properties of Two Heterobinuclear $[\text{Gd}, \text{V}(\text{O})]$ Complexes. European Journal of Inorganic Chemistry, 2001, 2001, 363-365.	1.0	86
3	Biological activity of complexes derived from thiophene-2-carbaldehyde thiosemicarbazone. Crystal structure of $[\text{Ni}(\text{C}_6\text{H}_6\text{N}_3\text{S}_2)_2]$ . Journal of Inorganic Biochemistry, 2001, 86, 627-633.	1.5	82
4	Dinuclear $\text{CoII}/\text{GdIII}$ and $\text{CoIII}/\text{GdIII}$ Complexes Derived from Hexadentate Schiff Bases: Synthesis, Structure, and Magnetic Properties. Chemistry - A European Journal, 2002, 8, 5430-5434.	1.7	71
5	Biological activity of complexes derived from pyridine-2-carbaldehyde thiosemicarbazone. Journal of Inorganic Biochemistry, 2001, 84, 271-278.	1.5	68
6	Evidence of Desulfurization in the Oxidative Cyclization of Thiosemicarbazones. Conversion to 1,3,4-Oxadiazole Derivatives. Inorganic Chemistry, 2002, 41, 1345-1347.	1.9	65
7	Spectroscopic and magnetic properties of copper(II) complexes derived from pyridine-2-carbaldehyde thiosemicarbazone. Structures of $[\text{Cu}(\text{NO}_3)(\text{C}_7\text{H}_8\text{N}_4\text{S})(\text{H}_2\text{O})](\text{NO}_3)$ and $[\{\text{Cu}(\text{NCS})(\text{C}_7\text{H}_7\text{N}_4\text{S})\}_2]$ . Polyhedron, 1999, 18, 3703-3711.	1.0	62
8	Synthesis, structure, spectroscopic and magnetic properties of two copper(II) dimers containing pyridine-2-carbaldehyde thiosemicarbazone (L), $[\{\text{CuL}(\text{X})\}_2]$ (X = Cl or Br). Journal of the Chemical Society Dalton Transactions, 1994, , 2233-2238.	1.1	60
9	Synthesis and spectroscopic properties of two pyridine-2-carbaldehyde thiosemicarbazonecopper(II) compounds: $[\text{CuX}_2(\text{C}_7\text{H}_8\text{N}_4\text{S})] \cdot \text{H}_2\text{O}$ (X = Br, Cl). Crystal structure of the bromo complex. Inorganica Chimica Acta, 1996, 249, 25-32.	1.2	52
10	Structure, magnetic properties and nuclease activity of pyridine-2-carbaldehyde thiosemicarbazonecopper(II) complexes. Journal of Inorganic Biochemistry, 2008, 102, 1910-1920.	1.5	50
11	Synthesis, crystal structure and cytotoxicity assays of a copper(II) nitrate complex with a tridentate ONO acylhydrazone ligand. Spectroscopic and theoretical studies of the complex and its ligand. Inorganica Chimica Acta, 2019, 487, 31-40.	1.2	46
12	Coordination Modes in a Tridentate NNS (Thiosemicarbazone)copper(II) System Containing Oxygen-Donor Coligands - Structures of $[\{\text{Cu}(\text{L})(\text{X})\}_2]$ (X = Formato, Propionato, Nitrito). European Journal of Inorganic Chemistry, 2003, 2003, 518-527.	1.0	42
13	Structural and Magnetic Study of a Trinuclear $\text{Mn}^{\text{II}}-\text{Gd}^{\text{III}}-\text{Mn}^{\text{II}}$ Complex. European Journal of Inorganic Chemistry, 2009, 2009, 3801-3806.	1.0	39
14	Biological assays and noncovalent interactions of pyridine-2-carbaldehyde thiosemicarbazonecopper(II) drugs with $[\text{poly}(\text{dAdT})_2]$ , $[\text{poly}(\text{dGdC})_2]$ , and calf thymus DNA. Journal of Biological Inorganic Chemistry, 2010, 15, 515-532.	1.1	39
15	Interaction of the DNA bases and their mononucleotides with pyridine-2-carbaldehyde thiosemicarbazonecopper(II) complexes. Structure of the cytosine derivative. Journal of Inorganic Biochemistry, 2008, 102, 1892-1900.	1.5	37
16	New 1,3,4-Oxadiazolecopper(II) Derivatives Obtained from Thiosemicarbazone Complexes. European Journal of Inorganic Chemistry, 2003, 2003, 2639-2650.	1.0	33
17	Coordination of gadolinium(III) ions with a preformed $\mu$ -oxo diiron(III) complex: structural and magnetic data. Dalton Transactions, 2003, , 464-468.	1.6	33
18	Coordination Modes in a (Thiosemicarbazone)copper(II)/Oxalato System - Structures of $[\{\text{Cu}(\text{L})\}_2(\text{ox})] \cdot 2\text{H}_2\text{O}$ , $[\text{Cu}(\text{HL})(\text{ox})(\text{H}_2\text{O})]$ , $[\{\text{Cu}(\text{HL})\}_2(\text{ox})][\text{Cu}(\text{ox})_2] \cdot 2\text{H}_2\text{O}$ and $[\{\text{Cu}(\text{HL})\}_2(\text{ox})](\text{NO}_3)_2$ - Ferro- vs. Antiferromagnetic Behavior in Dinuclear Compounds. European Journal of Inorganic Chemistry, 2003, 2003, 2123-2132.	1.0	27

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19	First end-to-end thiocyanato chain containing 5-coordinate copper(II) ions. <i>Inorganic Chemistry Communication</i> , 2003, 6, 558-560.	1.8	27
20	Indirect evidences of desulfurization of a thiosemicarbazonecopper(II) system in aqueous basic medium. <i>Inorganic Chemistry Communication</i> , 2005, 8, 259-262.	1.8	26
21	Anticancer activity of a new copper(II) complex with a hydrazone ligand. Structural and spectroscopic characterization, computational simulations and cell mechanistic studies on 2D and 3D breast cancer cell models. <i>Dalton Transactions</i> , 2021, 50, 9812-9826.	1.6	25
22	Unexpected Behaviour of Pyridine-2-carbaldehyde Thiosemicarbazonecopper(II) Entities in Aqueous Basic Medium - Partial Transformation of Thioamide into Nitrile. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3409-3413.	1.0	23
23	Interaction Analysis of Commercial Graphene Oxide Nanoparticles with Unicellular Systems and Biomolecules. <i>International Journal of Molecular Sciences</i> , 2020, 21, 205.	1.8	22
24	Spectroscopic properties of iron(II)-thiosemicarbazone compounds. Structure of $[\text{Fe}(\text{C}_7\text{H}_7\text{N}_4\text{S})_2] \cdot 1.25\text{H}_2\text{O}$ . <i>Inorganica Chimica Acta</i> , 2002, 333, 132-137.	1.2	20
25	Desulfurization processes of thiosemicarbazonecopper(II) derivatives in acidic and basic aqueous media. <i>New Journal of Chemistry</i> , 2013, 37, 3568.	1.4	20
26	Cu(II) and Zn(II) complexes with a poly-functional ligand derived from <i>o</i> -vanillin and thiophene. Crystal structure, physicochemical properties, theoretical studies and cytotoxicity assays against human breast cancer cells. <i>New Journal of Chemistry</i> , 2019, 43, 7120-7129.	1.4	20
27	Pyridine-2-Carbaldehyde Thiosemicarbazonecopper System: Extending Some Findings to Other Thiosemicarbazone and Coordination Compounds. <i>Current Inorganic Chemistry</i> , 2011, 1, 189-210.	0.2	20
28	Organic-inorganic hybrids based on four-electron reduced Keggin $\gamma$ -isomer phosphododecamolybdates and diazines. <i>New Journal of Chemistry</i> , 2003, 27, 399-408.	1.4	18
29	Polyoxometallate-Thiosemicarbazone Hybrid Compounds. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4513-4525.	1.0	18
30	Influence of Three Commercial Graphene Derivatives on the Catalytic Properties of a <i>Lactobacillus plantarum</i> $\alpha$ -L-Rhamnosidase When Used as Immobilization Matrices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18170-18182.	4.0	17
31	(1,3,4-oxadiazole)copper(II) Compounds: Dimensionality, Magnetism and Nuclease Activity. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 373-388.	1.0	15
32	Synthesis, characterization, DFT calculations and anticancer activity of a new oxidovanadium(IV) complex with a ligand derived from <i>o</i> -vanillin and thiophene. <i>New Journal of Chemistry</i> , 2019, 43, 11784-11794.	1.4	15
33	A dinuclear copper(II) complex with a $\text{Cu}(\text{O}, \text{N}=\text{O})\text{Cu}$ bridging core: structural and magnetic (experimental and density functional theory) studies. <i>Inorganica Chimica Acta</i> , 2004, 357, 2150-2156.	1.2	14
34	Synthesis, Crystal Structure, Spectroscopic Characterization, DFT Calculations and Cytotoxicity Assays of a New Cu(II) Complex with an Acylhydrazone Ligand Derived from Thiophene. <i>Inorganics</i> , 2021, 9, 9.	1.2	14
35	Revisiting the thiosemicarbazonecopper(II) reaction with glutathione. Activity against colorectal carcinoma cell lines. <i>Journal of Inorganic Biochemistry</i> , 2018, 180, 69-79.	1.5	13
36	Thiosemicarbazone-metal complexes exhibiting cytotoxicity in colon cancer cell lines through oxidative stress. <i>Journal of Inorganic Biochemistry</i> , 2020, 206, 110993.	1.5	13

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37	A Strictly Dinuclear MnIII-GdIII Complex: Synthesis and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3307-3311.	1.0	12
38	The mechanism of the Cu <sup>2+</sup> [12-MCCu(Alaha)-4] metallacrown formation and lanthanum(III) encapsulation. <i>Dalton Transactions</i> , 2014, 43, 9271-9282.	1.6	12
39	Selectivity of a thiosemicarbazonecopper(II) complex towards duplex RNA. Relevant noncovalent interactions both in solid state and solution. <i>Dalton Transactions</i> , 2016, 45, 18704-18718.	1.6	12
40	Design of Tri-Substituted Dodecatungstosilicate from a Trilacunary Silicotungstate by Insertion of Manganese Ions of [Mn <sub>3</sub> (1/4) <sub>3</sub> â€•O)(2â€•Clâ€•benzoato) <sub>6</sub> (py) <sub>3</sub> ]; Synthesis, Structure, Redox and Magnetic Studies. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5517-5522.	1.0	11
41	Thiosemicarbazonecopper(II) compounds with halide/hexafluorosilicate anions: Structure, water clusters, non-covalent interactions and magnetism. <i>Polyhedron</i> , 2014, 81, 675-686.	1.0	10
42	Polymorphism and magnetic properties in thiosemicarbazonecopper(II)-sulfate compounds. <i>Polyhedron</i> , 2013, 54, 243-251.	1.0	8
43	Antiferromagnetic Cuâ€•Gd interactions through an oxime bridge. <i>Dalton Transactions</i> , 2014, 43, 11388-11396.	1.6	8
44	Pyridine-2-carbaldehyde Thiosemicarbazone Hydrochloride Monohydrate, 2C <sub>7</sub> H <sub>9</sub> N <sub>4</sub> S <sup>+</sup> ·2Cl <sup>-</sup> ·2H <sub>2</sub> O. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1995, 51, 2172-2174.	0.4	6
45	Hydrothermal Synthesis at High Pressure and Temperature of the Mg <sub>7.5</sub> Ni <sub>6</sub> H <sub>3</sub> (AsO <sub>4</sub> ) <sub>8</sub> (OH) <sub>6</sub> and Mg <sub>8</sub> Ni <sub>4</sub> H <sub>6</sub> (PO <sub>4</sub> ) <sub>8</sub> (OH) <sub>6</sub> Compounds. <i>High Pressure Research</i> , 2002, 22, 569-572.	0.4	5
46	Conversion of a double-tetranuclear cluster silver helicate into a dihelicate via a rare desulfurization process. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 531-536.	3.0	5
47	Tridentate acylhydrazone copper(II) complexes with heterocyclic bases as coligands. Synthesis, spectroscopic studies, crystal structure and cytotoxicity assays. <i>Polyhedron</i> , 2022, 213, 115621.	1.0	4
48	Pressurized hot water-assisted recovery of crude residual agar from a never-dried algae industry waste stream: A Box-Behnken design approach. <i>Food Hydrocolloids</i> , 2022, 129, 107664.	5.6	4
49	Transforming the ancestors: early evidence of fire-induced manipulation on human bones in the Near East from the Pre-Pottery Neolithic B of Kharaysin (Jordan). <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	0.7	3
50	Geochemical and spectroscopic approach to the characterization of earliest cremated human bones from the Levant (PPNB of Kharaysin, Jordan). <i>Journal of Archaeological Science: Reports</i> , 2020, 30, 102211.	0.2	3
51	Magnetic properties of M <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> ·8H <sub>2</sub> O (M=Co, Ni). <i>IEEE Transactions on Magnetics</i> , 1994, 30, 981-984.	1.2	2
52	Synthesis of Fluorogenic Arylureas and Amides and Their Interaction with Amines: A Competition between Turn-on Fluorescence and Organic Radicals on the Way to a Smart Label for Fish Freshness. <i>Molecules</i> , 2021, 26, 1404.	1.7	2
53	Phyllosilicate-content influence on the spectroscopic properties and antioxidant capacity of Iberian Cretaceous clays. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 251, 119472.	2.0	2
54	Reaction of Non-Symmetric Schiff Base Metallo-Ligand Complexes Possessing an Oxime Function with Ln Ions. <i>Inorganics</i> , 2018, 6, 33.	1.2	1

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55	Organic-Inorganic Hybrids Based on Four-Electron Reduced Keggin $\beta$ -Isomer Phosphododecamolybdates and Diazines.. ChemInform, 2003, 34, no.	0.1	0