

Maria Rangel

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105
papers

1,813
citations

23
h-index

36
g-index

117
ext. papers

2,043
ext. citations

4.1
avg, IF

4.38
L-index

#	Paper	IF	Citations
105	In vitro study of the insulin-mimetic behaviour of vanadium(IV, V) coordination compounds. <i>Journal of Biological Inorganic Chemistry</i> , 2002 , 7, 384-96	3.7	206
104	ER stress-inducible factor CHOP affects the expression of hepcidin by modulating C/EBPalpha activity. <i>PLoS ONE</i> , 2009 , 4, e6618	3.7	73
103	Spectroscopic and potentiometric characterization of oxovanadium(IV) complexes formed by 3-hydroxy-4-pyridinones. Rationalization of the influence of basicity and electronic structure of the ligand on the properties of V(IV)O species in aqueous solution. <i>Inorganic Chemistry</i> , 2006 , 45, 8086-97	5.1	67
102	In vitro study of the insulin-like action of vanadyl-pyrone and -pyridinone complexes with a VO(O4) coordination mode. <i>Journal of Biological Inorganic Chemistry</i> , 2001 , 6, 128-32	3.7	59
101	Structural characterization of inclusion complexes between cyanidin-3-O-glucoside and β -cyclodextrin. <i>Carbohydrate Polymers</i> , 2014 , 102, 269-77	10.3	50
100	Hypoxia enhances the malignant nature of bladder cancer cells and concomitantly antagonizes protein O-glycosylation extension. <i>Oncotarget</i> , 2016 , 7, 63138-63157	3.3	46
99	A novel fluorescein-based dye containing a catechol chelating unit to sense iron(III). <i>Dyes and Pigments</i> , 2012 , 93, 1447-1455	4.6	43
98	Vanadyl cationic complexes as catalysts in olefin oxidation. <i>Dalton Transactions</i> , 2015 , 44, 5125-38	4.3	40
97	Targeted O-glycoproteomics explored increased sialylation and identified MUC16 as a poor prognosis biomarker in advanced-stage bladder tumours. <i>Molecular Oncology</i> , 2017 , 11, 895-912	7.9	39
96	Identification of a new hexadentate iron chelator capable of restricting the intramacrophagic growth of <i>Mycobacterium avium</i> . <i>Microbes and Infection</i> , 2010 , 12, 287-94	9.3	39
95	Fluorescent 3-hydroxy-4-pyridinone hexadentate iron chelators: intracellular distribution and the relevance to antimycobacterial properties. <i>Journal of Biological Inorganic Chemistry</i> , 2010 , 15, 861-77	3.7	37
94	Hydroxypyranones, hydroxypyridinones, and their complexes. <i>Advances in Inorganic Chemistry</i> , 2008 , 60, 167-243	2.1	37
93	Synthesis and characterization of 3-hydroxy-4pyridinone-oxovanadium(IV) complexes. <i>Polyhedron</i> , 1997 , 16, 789-794	2.7	36
92	Rhodamine labeling of 3-hydroxy-4-pyridinone iron chelators is an important contribution to target <i>Mycobacterium avium</i> infection. <i>Journal of Inorganic Biochemistry</i> , 2013 , 121, 156-66	4.2	29
91	Investigation of the insulin-like properties of zinc(II) complexes of 3-hydroxy-4-pyridinones: identification of a compound with glucose lowering effect in STZ-induced type I diabetic animals. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 1675-82	4.2	28
90	Physiological implications of NTBI uptake by T lymphocytes. <i>Frontiers in Pharmacology</i> , 2014 , 5, 24	5.6	27
89	Microwave-Assisted Synthesis and Spectroscopic Properties of 4?-Substituted Rosamine Fluorophores and Naphthyl Analogues. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 5810-5817	3.2	27

88	Non-transferrin-bound iron (NTBI) uptake by T lymphocytes: evidence for the selective acquisition of oligomeric ferric citrate species. <i>PLoS ONE</i> , 2013 , 8, e79870	3.7	27
87	Novel 3-hydroxy-4-pyridinonato oxidovanadium(IV) complexes to investigate structure/activity relationships. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 496-502	4.2	27
86	Structural study of the interaction of vanadate with the ligand 1,2-dimethyl-3-hydroxy-4-pyridinone (Hdmpp) in aqueous solution. <i>Journal of Inorganic Biochemistry</i> , 2000 , 80, 177-9	4.2	27
85	Structural characterization of functionalized gold nanoparticles for drug delivery in cancer therapy: a NMR based approach. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18971-9	3.6	25
84	Exploiting the use of 3,4-HPO ligands as nontoxic reagents for the determination of iron in natural waters with a sequential injection approach. <i>Talanta</i> , 2013 , 108, 38-45	6.2	25
83	Discrimination of fluorescence light-up effects induced by pH and metal ion chelation on a spirocyclic derivative of rhodamine B. <i>Dalton Transactions</i> , 2013 , 42, 6110-8	4.3	24
82	Nickel(II) and Cobalt(II) 3-Hydroxy-4-pyridinone Complexes: Synthesis, Characterization and Speciation Studies in Aqueous Solution. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 131-140	2.3	23
81	Microwave-assisted synthesis of 3-hydroxy-4-pyridinone/naphthalene conjugates. Structural characterization and selection of a fluorescent ion sensor. <i>Tetrahedron</i> , 2010 , 66, 8544-8550	2.4	23
80	NMR structural analysis of epigallocatechin gallate loaded polysaccharide nanoparticles. <i>Carbohydrate Polymers</i> , 2010 , 82, 861-866	10.3	23
79	Study of the oxidation products of the VO(dmpp) ₂ complex in aqueous solution under aerobic conditions: comparison with the vanadate β dmpp system. <i>Inorganica Chimica Acta</i> , 2003 , 356, 142-154	2.7	23
78	Iron speciation by microsequential injection solid phase spectrometry using 3-hydroxy-1(H)-2-methyl-4-pyridinone as chromogenic reagent. <i>Talanta</i> , 2015 , 133, 15-20	6.2	22
77	Interaction of 5-fluorouracil loaded nanoparticles with 1,2-dimyristoyl-sn-glycero-3-phosphocholine liposomes used as a cellular membrane model. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 667-75	3.4	22
76	Antimycobacterial activity of rhodamine 3,4-HPO iron chelators against Mycobacterium avium: analysis of the contribution of functional groups and of chelator β combination with ethambutol. <i>MedChemComm</i> , 2015 , 6, 2194-2203	5	21
75	Anthelmintic, Antibacterial and Cytotoxicity Activity of Imidazole Alkaloids from Pilocarpus microphyllus Leaves. <i>Phytotherapy Research</i> , 2017 , 31, 624-630	6.7	20
74	Chlorogenic acid-arabinose hybrid domains in coffee melanoidins: Evidences from a model system. <i>Food Chemistry</i> , 2015 , 185, 135-44	8.5	20
73	Isoxazolidine-fused meso-tetraarylchlorins as key tools for the synthesis of mono- and bis-annulated chlorins. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 7131-5	3.9	20
72	Iron speciation in natural waters by sequential injection analysis with a hexadentate 3-hydroxy-4-pyridinone chelator as chromogenic agent. <i>Talanta</i> , 2016 , 148, 633-40	6.2	19
71	Influence of structural factors on the enhanced activity of moxifloxacin: a fluorescence and EPR spectroscopic study. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1543-52	4.4	19

70	Lactoferricin Peptides Increase Macrophages Capacity To Kill. <i>MSphere</i> , 2017 , 2,	5	18
69	Pyridinone oxovanadium(IV) complexes: a new class of insulin mimetic compounds. <i>Transition Metal Chemistry</i> , 2001 , 26, 219-223	2.1	18
68	Effect of tris(3-hydroxy-4-pyridinonate) iron(III) complexes on iron uptake and storage in soybean (Glycine max L.). <i>Plant Physiology and Biochemistry</i> , 2016 , 106, 91-100	5.4	18
67	The glycation site specificity of human serum transferrin is a determinant for transferrin functional impairment under elevated glycaemic conditions. <i>Biochemical Journal</i> , 2014 , 461, 33-42	3.8	16
66	Design of a water soluble 1,8-naphthalimide/3-hydroxy-4-pyridinone conjugate: Investigation of its spectroscopic properties at variable pH and in the presence of Fe ³⁺ , Cu ²⁺ and Zn ²⁺ . <i>Dyes and Pigments</i> , 2013 , 98, 201-211	4.6	16
65	NMR insight into the supramolecular structure of daunorubicin loaded polymer nanoparticles. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 902-9	3.4	16
64	Novel tetradentate chelators derived from 3-hydroxy-4-pyridinone units: synthesis, characterization and aqueous solution properties. <i>Tetrahedron</i> , 2011 , 67, 4009-4016	2.4	15
63	Photolysis Primary Products of Alkylcobaloximes Controlled by the Cobalt-Carbon Bond Strength. <i>Organometallics</i> , 1999 , 18, 3451-3456	3.8	15
62	New lipophilic 3-hydroxy-4-pyridinonate iron(III) complexes: synthesis and EXAFS structural characterisation. <i>Dalton Transactions</i> , 2006 , 1313-21	4.3	14
61	Microsequential injection lab-on-valve system for the spectrophotometric bi-parametric determination of iron and copper in natural waters. <i>Talanta</i> , 2017 , 167, 703-708	6.2	13
60	Electron spin resonance study of the cobalt(II) species formed after room-temperature photolysis of aqua(sec-butyl)bis(dimethylglyoximate)cobalt(III) in the presence of N-donor bases. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994 , 369		13
59	Mean copper-ligand binding enthalpies in copper(II) complexes of dimethylglyoxime, glycine, acetic acid and 4-phenylamino-3-penten-2-one. <i>Thermochimica Acta</i> , 1990 , 160, 267-280	2.9	13
58	Antibacterial activity of naphthyl derived bis-(3-hydroxy-4-pyridinonate) copper(II) complexes against multidrug-resistant bacteria. <i>Journal of Inorganic Biochemistry</i> , 2019 , 197, 110704	4.2	12
57	Distinctive EPR signals provide an understanding of the affinity of bis-(3-hydroxy-4-pyridinonato) copper(II) complexes for hydrophobic environments. <i>Dalton Transactions</i> , 2014 , 43, 9722-31	4.3	12
56	Street-Like Synthesis of Krokodil Results in the Formation of an Enlarged Cluster of Known and New Morphinans. <i>Chemical Research in Toxicology</i> , 2017 , 30, 1609-1621	4	11
55	A 1000-year-old mystery solved: Unlocking the molecular structure for the medieval blue from , also known as folium. <i>Science Advances</i> , 2020 , 6, eaaz7772	14.3	11
54	1,3-Dipolar cycloadditions with meso-tetraarylchlorins site selectivity and mixed bisadducts. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 534-544	5.2	10
53	Synthesis and characterization of a 3-hydroxy-4-pyridinone chelator functionalized with a polyethylene glycol (PEG) chain aimed at sequential injection determination of iron in natural waters. <i>Polyhedron</i> , 2015 , 101, 171-178	2.7	10

52	Relevant interactions of antimicrobial iron chelators and membrane models revealed by nuclear magnetic resonance and molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14590-601	3.4	10
51	Oxidovanadium(IV) Complexes of 3-Hydroxy-4-pyrone and 3-Hydroxy-4-pyridinone Ligands: A New Generation of Homogeneous Catalysts for the Epoxidation of Geraniol. <i>Catalysis Letters</i> , 2010 , 135, 98-104	2.8	10
50	EPR characterization of the photolysis and thermolysis products of alkylcobaloximes with symmetric phosphines and phosphites. Factors that stabilize the cobalt homolysis fragments. <i>Organometallics</i> , 1991 , 10, 3848-3855	3.8	10
49	NMR study of the supramolecular structure of dual drug-loaded poly(butylcyanoacrylate) nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16657-64	3.6	9
48	The influence of functional groups on the permeation and distribution of antimycobacterial rhodamine chelators. <i>Journal of Inorganic Biochemistry</i> , 2017 , 175, 138-147	4.2	9
47	Tuning the limits of pH interference of a rhodamine ion sensor by introducing catechol and 3-hydroxy-4-pyridinone chelating units. <i>Dyes and Pigments</i> , 2014 , 110, 193-202	4.6	9
46	Use of a porphyrin platform and 3,4-HPO chelating units to synthesize ligands with N4 and O4 coordination sites. <i>Tetrahedron</i> , 2011 , 67, 7821-7828	2.4	9
45	Binding selectivity of vitamin K3 based chemosensors towards nickel(II) and copper(II) metal ions. <i>Journal of Molecular Structure</i> , 2017 , 1143, 495-514	3.4	8
44	NMR study of the interaction of fluorescent 3-hydroxy-4-pyridinone chelators with DMPC liposomes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5027-33	3.6	8
43	Photolysis Secondary Products of Cobaloximes and Imino/Oxime Compounds Controlled by Steric Hindrance Imposed by the Lewis Base. <i>Organometallics</i> , 2005 , 24, 3500-3507	3.8	8
42	An electron spin resonance spectral study of bis(dimethylglyoximato)-cobalt(II) and some phosphine and phosphite adducts. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990 , 3311		8
41	New hydrophilic 3-hydroxy-4-pyridinone chelators with ether-derived substituents: Synthesis and evaluation of analytical performance in the determination of iron in waters. <i>Polyhedron</i> , 2019 , 160, 145-156	2.7	7
40	Use of an ether-derived 3-hydroxy-4-pyridinone chelator as a new chromogenic reagent in the development of a microfluidic paper-based analytical device for Fe(III) determination in natural waters. <i>Talanta</i> , 2020 , 214, 120887	6.2	7
39	Synthesis and coordination studies of 5-(4?-carboxyphenyl)-10,15,20-tris(pentafluorophenyl)porphyrin and its pyrrolidine-fused chlorin derivative. <i>New Journal of Chemistry</i> , 2018 , 42, 8169-8179	3.6	7
38	Silica nanostructures synthesis and CdTe quantum dots immobilization for photocatalytical applications. <i>RSC Advances</i> , 2014 , 4, 59697-59705	3.7	7
37	Biomembrane simulations of 12 lipid types using the general amber force field in a tensionless ensemble. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014 , 32, 88-103	3.6	7
36	A DFT quantum mechanical study of 3-hydroxy-4-pyrone and 3-hydroxy-4-pyridinone based oxidovanadium(IV) complexes. <i>Structural Chemistry</i> , 2011 , 22, 697-706	1.8	7
35	Synthesis and spectroscopic characterization of a new tripodal hexadentate iron chelator incorporating catechol units. <i>Polyhedron</i> , 2015 , 87, 1-7	2.7	6

34	The Influence of the Amide Linkage in the Fe(III) -Binding Properties of Catechol-Modified Rosamine Derivatives. <i>Chemistry - A European Journal</i> , 2015 , 21, 15692-704	4.8	6
33	Tuning the Anti(myco)bacterial Activity of 3-Hydroxy-4-pyridinone Chelators through Fluorophores. <i>Pharmaceuticals</i> , 2018 , 11,	5.2	6
32	New fluorescent rosamine chelator showing promising antibacterial activity against Gram-positive bacteria. <i>Bioorganic Chemistry</i> , 2018 , 79, 341-349	5.1	6
31	Greener and wide applicability range flow-based spectrophotometric method for iron determination in fresh and marine water. <i>Talanta</i> , 2020 , 216, 120925	6.2	5
30	Synthesis and structural characterization, by spectroscopic and computational methods, of two fluorescent 3-hydroxy-4-pyridinone chelators bearing sulphorhodamine B and naphthalene. <i>RSC Advances</i> , 2016 , 6, 4200-4211	3.7	5
29	Characterization of the photolysis products of sec-butylcobaloximes with imidazole and benzimidazole bases. <i>Journal of Organometallic Chemistry</i> , 2001 , 632, 85-93	2.3	5
28	EPR and 51V NMR studies of prospective anti-diabetic bis(3-hydroxy-4-pyridinonato)oxidovanadium(IV) complexes in aqueous solution and liposome suspensions. <i>New Journal of Chemistry</i> , 2018 , 42, 8088-8097	3.6	4
27	Study of the effect of thiourea and N-ethyl groups on antibacterial activity of rhodamine-labeled 3,4-HPO iron chelators against Gram (+) bacteria. <i>Medicinal Chemistry Research</i> , 2018 , 27, 1472-1477	2.2	4
26	Membrane partition of bis-(3-hydroxy-4-pyridinonato) zinc(ii) complexes revealed by molecular dynamics simulations.. <i>RSC Advances</i> , 2018 , 8, 27081-27090	3.7	4
25	Synthesis of Pyridyl and N-Methylpyridinium Analogues of Rosamines: Relevance of Solvent and Charge on Their Photophysical Properties. <i>Chemistry - A European Journal</i> , 2019 , 25, 15073-15082	4.8	4
24	EPR spin trapping studies of H ₂ O ₂ activation in metaloporphyrin catalyzed oxygenation reactions: Insights on the biomimetic mechanism. <i>Molecular Catalysis</i> , 2019 , 475, 110500	3.3	4
23	Determination of iron(III) in water samples by microsequential injection solid phase spectrometry using an hexadentate 3-hydroxy-4-pyridinone chelator as reagent. <i>Talanta</i> , 2019 , 191, 409-414	6.2	4
22	Human transferrin: An inorganic biochemistry perspective. <i>Coordination Chemistry Reviews</i> , 2021 , 449, 214186	23.2	4
21	Synthesis and characterization of two fluorescent isophthalate rosamines: From solution to immobilization in solid substrates. <i>Dyes and Pigments</i> , 2018 , 157, 405-414	4.6	3
20	Characterization of a Ebxo-bridged diiron porphyrin by ESI-LTQ-Orbitrap-MS. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 763-5	2.2	3
19	Microwave-Enhanced Synthesis of Novel Pyridinone-Fused Porphyrins. <i>Synlett</i> , 2009 , 2009, 1009-1013	2.2	3
18	EPR Study of the Photolysis of Methyl- and Adenosylcobinamides in the Presence of Phosphine and Pyridine Bases. Evidence for the Need of a Judicious Choice of Irradiation Temperature and Solvent to Assess Ligand Binding. <i>Organometallics</i> , 2008 , 27, 2536-2543	3.8	3
17	XAFS studies of pyranonate and pyridinone metal(III) complexes. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 579-81	2.4	3

16	Synthesis, characterization, and cellular investigations of porphyrin- and chlorin-indomethacin conjugates for photodynamic therapy of cancer. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 6501-6512 ^{3,9}	3.9	3
15	Determining the glycation site specificity of human holo-transferrin. <i>Journal of Inorganic Biochemistry</i> , 2018 , 186, 95-102	4.2	3
14	The (Bio)Chemistry of Non-Transferrin-Bound Iron.. <i>Molecules</i> , 2022 , 27,	4.8	3
13	Integrated Flow-based System Displaying an In-line Mini Soil Column to Monitor Iron Species in Soils Leachates. <i>Communications in Soil Science and Plant Analysis</i> , 2020 , 51, 1089-1100	1.5	2
12	Design of a Water Soluble Fluorescent 3-Hydroxy-4-Pyridinone Ligand Active at Physiological pH Values. <i>Journal of Fluorescence</i> , 2016 , 26, 1773-85	2.4	2
11	Uncovering novel 3-hydroxy-4-pyridinone metal ion complexes with potential anti-inflammatory properties. <i>Journal of Inorganic Biochemistry</i> , 2016 , 155, 9-16	4.2	2
10	Ruthenium complexes of 3-hydroxy-4-pyranones and of 3-hydroxy-4-pyridinones. <i>Transition Metal Chemistry</i> , 2008 , 33, 553-561	2.1	2
9	Insights on the relationship between structure vs. toxicological activity of antibacterial rhodamine-labelled 3-hydroxy-4-pyridinone iron(III) chelators in HepG2 cells. <i>Interdisciplinary Toxicology</i> , 2018 , 11, 189-199	2.3	2
8	Foliar application of 3-hydroxy-4-pyridinone Fe-chelate [Fe(mpp)] induces responses at the root level amending iron deficiency chlorosis in soybean. <i>Physiologia Plantarum</i> , 2021 , 173, 235-245	4.6	2
7	A computational study on the redox properties and binding affinities of iron complexes of hydroxypyridinones. <i>Journal of Molecular Modeling</i> , 2019 , 25, 172	2	1
6	EPR and XANES studies of anaerobic photolysis of iso-propylpyridinecobaloxime: Elucidation of the reactivity of the Co(II) primary product. <i>Journal of Organometallic Chemistry</i> , 2014 , 760, 11-18	2.3	1
5	A combined physiological and biophysical approach to understand the ligand-dependent efficiency of 3-hydroxy-4-pyridinone Fe-chelates. <i>Plant Direct</i> , 2020 , 4, e00256	3.3	1
4	One-Pot Synthesis of Xanthone by Carbonylative Suzuki Coupling Reaction. <i>ChemistrySelect</i> , 2021 , 6, 4511-4514	1.8	1
3	Synthesis of a highly emissive carboxylated pyrrolidine-fused chlorin for optical sensing of TATP vapours. <i>Dyes and Pigments</i> , 2021 , 195, 109721	4.6	0
2	(Aminophenyl)porphyrins as precursors for the synthesis of porphyrin-modified siloxanes. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019 , 23, 1001-1012	1.8	
1	A combined experimental and computational study to discover novel tyrosinase inhibitors. <i>Journal of Inorganic Biochemistry</i> , 2022 , 111879	4.2	