

# Maria Rangel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The (Bio)Chemistry of Non-Transferrin-Bound Iron.. <i>Molecules</i> , <b>2022</b> , 27,	4.8	3
104	A combined experimental and computational study to discover novel tyrosinase inhibitors. <i>Journal of Inorganic Biochemistry</i> , <b>2022</b> , 111879	4.2	
103	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> , <b>2021</b> , 173, 235-245	4.6	2
102	One-Pot Synthesis of Xanthone by Carbonylative Suzuki Coupling Reaction. <i>ChemistrySelect</i> , <b>2021</b> , 6, 4511-4514	1.8	1
101	Synthesis, characterization, and cellular investigations of porphyrin- and chlorin-indomethacin conjugates for photodynamic therapy of cancer. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 6501-6512 <sup>9</sup>	3.9	3
100	Synthesis of a highly emissive carboxylated pyrrolidine-fused chlorin for optical sensing of TATP vapours. <i>Dyes and Pigments</i> , <b>2021</b> , 195, 109721	4.6	0
99	Human transferrin: An inorganic biochemistry perspective. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 449, 214186	23.2	4
98	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> , <b>2020</b> , 214, 120887	6.2	7
97	Greener and wide applicability range flow-based spectrophotometric method for iron determination in fresh and marine water. <i>Talanta</i> , <b>2020</b> , 216, 120925	6.2	5
96	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> , <b>2020</b> , 51, 1089-1100	1.5	2
95	A combined physiological and biophysical approach to understand the ligand-dependent efficiency of 3-hydroxy-4-pyridinone Fe-chelates. <i>Plant Direct</i> , <b>2020</b> , 4, e00256	3.3	1
94	A 1000-year-old mystery solved: Unlocking the molecular structure for the medieval blue from , also known as folium. <i>Science Advances</i> , <b>2020</b> , 6, eaaz7772	14.3	11
93	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> , <b>2019</b> , 160, 145-156 <sup>7</sup>	2.7	7
92	A computational study on the redox properties and binding affinities of iron complexes of hydroxypyridinones. <i>Journal of Molecular Modeling</i> , <b>2019</b> , 25, 172	2	1
91	Antibacterial activity of naphthyl derived bis-(3-hydroxy-4-pyridinonate) copper(II) complexes against multidrug-resistant bacteria. <i>Journal of Inorganic Biochemistry</i> , <b>2019</b> , 197, 110704	4.2	12
90	Synthesis of Pyridyl and N-Methylpyridinium Analogues of Rosamines: Relevance of Solvent and Charge on Their Photophysical Properties. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 15073-15082	4.8	4
89	EPR spin trapping studies of H <sub>2</sub> O <sub>2</sub> activation in metaloporphyrin catalyzed oxygenation reactions: Insights on the biomimetic mechanism. <i>Molecular Catalysis</i> , <b>2019</b> , 475, 110500	3.3	4

88	(Aminophenyl)porphyrins as precursors for the synthesis of porphyrin-modified siloxanes. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2019</b> , 23, 1001-1012	1.8	
87	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> , <b>2019</b> , 191, 409-414	6.2	4
86	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> , <b>2018</b> , 42, 8169-8179	3.6	7
85	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> , <b>2018</b> , 42, 8088-8097	3.6	4
84	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> , <b>2018</b> , 27, 1472-1477	2.2	4
83	Membrane partition of bis-(3-hydroxy-4-pyridinonato) zinc(ii) complexes revealed by molecular dynamics simulations.. <i>RSC Advances</i> , <b>2018</b> , 8, 27081-27090	3.7	4
82	Synthesis and characterization of two fluorescent isophthalate rosamines: From solution to immobilization in solid substrates. <i>Dyes and Pigments</i> , <b>2018</b> , 157, 405-414	4.6	3
81	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> , <b>2018</b> , 11, 189-199	2.3	2
80	Tuning the Anti(mycobacterial) Activity of 3-Hydroxy-4-pyridinone Chelators through Fluorophores. <i>Pharmaceuticals</i> , <b>2018</b> , 11,	5.2	6
79	New fluorescent rosamine chelator showing promising antibacterial activity against Gram-positive bacteria. <i>Bioorganic Chemistry</i> , <b>2018</b> , 79, 341-349	5.1	6
78	Determining the glycation site specificity of human holo-transferrin. <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 186, 95-102	4.2	3
77	Anthelmintic, Antibacterial and Cytotoxicity Activity of Imidazole Alkaloids from Pilocarpus microphyllus Leaves. <i>Phytotherapy Research</i> , <b>2017</b> , 31, 624-630	6.7	20
76	1,3-Dipolar cycloadditions with meso-tetraarylchlorins Site selectivity and mixed bisadducts. <i>Organic Chemistry Frontiers</i> , <b>2017</b> , 4, 534-544	5.2	10
75	Targeted O-glycoproteomics explored increased sialylation and identified MUC16 as a poor prognosis biomarker in advanced-stage bladder tumours. <i>Molecular Oncology</i> , <b>2017</b> , 11, 895-912	7.9	39
74	Microsequential injection lab-on-valve system for the spectrophotometric bi-parametric determination of iron and copper in natural waters. <i>Talanta</i> , <b>2017</b> , 167, 703-708	6.2	13
73	Binding selectivity of vitamin K3 based chemosensors towards nickel(II) and copper(II) metal ions. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1143, 495-514	3.4	8
72	Lactoferricin Peptides Increase Macrophages Capacity To Kill. <i>MSphere</i> , <b>2017</b> , 2,	5	18
71	The influence of functional groups on the permeation and distribution of antimycobacterial rhodamine chelators. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 175, 138-147	4.2	9

70	Street-Like Synthesis of Krokodil Results in the Formation of an Enlarged Cluster of Known and New Morphinans. <i>Chemical Research in Toxicology</i> , <b>2017</b> , 30, 1609-1621	4	11
69	Design of a Water Soluble Fluorescent 3-Hydroxy-4-Pyridinone Ligand Active at Physiological pH Values. <i>Journal of Fluorescence</i> , <b>2016</b> , 26, 1773-85	2.4	2
68	Iron speciation in natural waters by sequential injection analysis with a hexadentate 3-hydroxy-4-pyridinone chelator as chromogenic agent. <i>Talanta</i> , <b>2016</b> , 148, 633-40	6.2	19
67	NMR study of the interaction of fluorescent 3-hydroxy-4-pyridinone chelators with DMPC liposomes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5027-33	3.6	8
66	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> , <b>2016</b> , 6, 4200-4211	3.7	5
65	Uncovering novel 3-hydroxy-4-pyridinone metal ion complexes with potential anti-inflammatory properties. <i>Journal of Inorganic Biochemistry</i> , <b>2016</b> , 155, 9-16	4.2	2
64	Hypoxia enhances the malignant nature of bladder cancer cells and concomitantly antagonizes protein O-glycosylation extension. <i>Oncotarget</i> , <b>2016</b> , 7, 63138-63157	3.3	46
63	Effect of tris(3-hydroxy-4-pyridinone) iron(III) complexes on iron uptake and storage in soybean ( <i>Glycine max</i> L.). <i>Plant Physiology and Biochemistry</i> , <b>2016</b> , 106, 91-100	5.4	18
62	Structural characterization of functionalized gold nanoparticles for drug delivery in cancer therapy: a NMR based approach. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18971-9	3.6	25
61	Chlorogenic acid-arabinose hybrid domains in coffee melanoidins: Evidences from a model system. <i>Food Chemistry</i> , <b>2015</b> , 185, 135-44	8.5	20
60	Antimycobacterial activity of rhodamine 3,4-HPO iron chelators against <i>Mycobacterium avium</i> : analysis of the contribution of functional groups and of chelator combination with ethambutol. <i>MedChemComm</i> , <b>2015</b> , 6, 2194-2203	5	21
59	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> , <b>2015</b> , 101, 171-178	2.7	10
58	Iron speciation by microsequential injection solid phase spectrometry using 3-hydroxy-1(H)-2-methyl-4-pyridinone as chromogenic reagent. <i>Talanta</i> , <b>2015</b> , 133, 15-20	6.2	22
57	Synthesis and spectroscopic characterization of a new tripodal hexadentate iron chelator incorporating catechol units. <i>Polyhedron</i> , <b>2015</b> , 87, 1-7	2.7	6
56	The Influence of the Amide Linkage in the Fe(III) -Binding Properties of Catechol-Modified Rosamine Derivatives. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15692-704	4.8	6
55	Isoxazolidine-fused meso-tetraarylchlorins as key tools for the synthesis of mono- and bis-annulated chlorins. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 7131-5	3.9	20
54	Vanadyl cationic complexes as catalysts in olefin oxidation. <i>Dalton Transactions</i> , <b>2015</b> , 44, 5125-38	4.3	40
53	Structural characterization of inclusion complexes between cyanidin-3-O-glucoside and $\beta$ -cyclodextrin. <i>Carbohydrate Polymers</i> , <b>2014</b> , 102, 269-77	10.3	50

52	Silica nanostructures synthesis and CdTe quantum dots immobilization for photocatalytical applications. <i>RSC Advances</i> , <b>2014</b> , 4, 59697-59705	3.7	7
51	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> , <b>2014</b> , 43, 9722-31	4.3	12
50	The glycation site specificity of human serum transferrin is a determinant for transferrin $\beta$ functional impairment under elevated glycaemic conditions. <i>Biochemical Journal</i> , <b>2014</b> , 461, 33-42	3.8	16
49	Biomembrane simulations of 12 lipid types using the general amber force field in a tensionless ensemble. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2014</b> , 32, 88-103	3.6	7
48	Physiological implications of NTBI uptake by T lymphocytes. <i>Frontiers in Pharmacology</i> , <b>2014</b> , 5, 24	5.6	27
47	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> , <b>2014</b> , 118, 14590-601	3.4	10
46	Characterization of a Ebxo-bridged diiron porphyrin by ESI-LTQ-Orbitrap-MS. <i>Journal of Mass Spectrometry</i> , <b>2014</b> , 49, 763-5	2.2	3
45	EPR and XANES studies of anaerobic photolysis of iso-propilpyridinecobaloxime: Elucidation of the reactivity of the Co(II) primary product. <i>Journal of Organometallic Chemistry</i> , <b>2014</b> , 760, 11-18	2.3	1
44	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> , <b>2014</b> , 110, 193-202	4.6	9
43	NMR study of the supramolecular structure of dual drug-loaded poly(butylcyanoacrylate) nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 16657-64	3.6	9
42	Discrimination of fluorescence light-up effects induced by pH and metal ion chelation on a spirocyclic derivative of rhodamine B. <i>Dalton Transactions</i> , <b>2013</b> , 42, 6110-8	4.3	24
41	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> , <b>2013</b> , 121, 156-66	4.2	29
40	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> , <b>2013</b> , 108, 38-45	6.2	25
39	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 <sup>3+</sup> , Cu <sup>2+</sup> and Zn <sup>2+</sup> . <i>Dyes and Pigments</i> , <b>2013</b> , 98, 201-211	4.6	16
38	Non-transferrin-bound iron (NTBI) uptake by T lymphocytes: evidence for the selective acquisition of oligomeric ferric citrate species. <i>PLoS ONE</i> , <b>2013</b> , 8, e79870	3.7	27
37	A novel fluorescein-based dye containing a catechol chelating unit to sense iron(III). <i>Dyes and Pigments</i> , <b>2012</b> , 93, 1447-1455	4.6	43
36	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> , <b>2012</b> , 116, 667-75	3.4	22
35	Microwave-Assisted Synthesis and Spectroscopic Properties of 4?-Substituted Rosamine Fluorophores and Naphthyl Analogues. <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 5810-5817	3.2	27

34	NMR insight into the supramolecular structure of daunorubicin loaded polymer nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 902-9	3.4	16
33	Use of a porphyrin platform and 3,4-HPO chelating units to synthesize ligands with N4 and O4 coordination sites. <i>Tetrahedron</i> , <b>2011</b> , 67, 7821-7828	2.4	9
32	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> , <b>2011</b> , 105, 1675-82	4.2	28
31	A DFT quantum mechanical study of 3-hydroxy-4-pyrone and 3-hydroxy-4-pyridinone based oxidovanadium(IV) complexes. <i>Structural Chemistry</i> , <b>2011</b> , 22, 697-706	1.8	7
30	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> , <b>2011</b> , 2011, 131-140	2.3	23
29	Novel tetradentate chelators derived from 3-hydroxy-4-pyridinone units: synthesis, characterization and aqueous solution properties. <i>Tetrahedron</i> , <b>2011</b> , 67, 4009-4016	2.4	15
28	Fluorescent 3-hydroxy-4-pyridinone hexadentate iron chelators: intracellular distribution and the relevance to antimycobacterial properties. <i>Journal of Biological Inorganic Chemistry</i> , <b>2010</b> , 15, 861-77	3.7	37
27	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> , <b>2010</b> , 135, 98-104	2.8	10
26	Identification of a new hexadentate iron chelator capable of restricting the intramacrophagic growth of <i>Mycobacterium avium</i> . <i>Microbes and Infection</i> , <b>2010</b> , 12, 287-94	9.3	39
25	Microwave-assisted synthesis of 3-hydroxy-4-pyridinone/naphthalene conjugates. Structural characterization and selection of a fluorescent ion sensor. <i>Tetrahedron</i> , <b>2010</b> , 66, 8544-8550	2.4	23
24	NMR structural analysis of epigallocatechin gallate loaded polysaccharide nanoparticles. <i>Carbohydrate Polymers</i> , <b>2010</b> , 82, 861-866	10.3	23
23	ER stress-inducible factor CHOP affects the expression of hepcidin by modulating C/EBPalpha activity. <i>PLoS ONE</i> , <b>2009</b> , 4, e6618	3.7	73
22	Microwave-Enhanced Synthesis of Novel Pyridinone-Fused Porphyrins. <i>Synlett</i> , <b>2009</b> , 2009, 1009-1013	2.2	3
21	Novel 3-hydroxy-4-pyridinonato oxidovanadium(IV) complexes to investigate structure/activity relationships. <i>Journal of Inorganic Biochemistry</i> , <b>2009</b> , 103, 496-502	4.2	27
20	Hydroxypyranones, hydroxypyridinones, and their complexes. <i>Advances in Inorganic Chemistry</i> , <b>2008</b> , 60, 167-243	2.1	37
19	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> , <b>2008</b> , 27, 2536-2543	3.8	3
18	Ruthenium complexes of 3-hydroxy-4-pyranones and of 3-hydroxy-4-pyridinones. <i>Transition Metal Chemistry</i> , <b>2008</b> , 33, 553-561	2.1	2
17	Influence of structural factors on the enhanced activity of moxifloxacin: a fluorescence and EPR spectroscopic study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1543-52	4.4	19

16	New lipophilic 3-hydroxy-4-pyridinonate iron(III) complexes: synthesis and EXAFS structural characterisation. <i>Dalton Transactions</i> , <b>2006</b> , 1313-21	4.3	14
15	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> , <b>2006</b> , 45, 8086-97	5.1	67
14	Photolysis Secondary Products of Cobaloximes and Imino/Oxime Compounds Controlled by Steric Hindrance Imposed by the Lewis Base. <i>Organometallics</i> , <b>2005</b> , 24, 3500-3507	3.8	8
13	Study of the oxidation products of the VO(dmpp) <sub>2</sub> complex in aqueous solution under aerobic conditions: comparison with the vanadate $\delta$ dmpp system. <i>Inorganica Chimica Acta</i> , <b>2003</b> , 356, 142-154	2.7	23
12	In vitro study of the insulin-mimetic behaviour of vanadium(IV, V) coordination compounds. <i>Journal of Biological Inorganic Chemistry</i> , <b>2002</b> , 7, 384-96	3.7	206
11	In vitro study of the insulin-like action of vanadyl-pyrone and -pyridinone complexes with a VO(O <sub>4</sub> ) coordination mode. <i>Journal of Biological Inorganic Chemistry</i> , <b>2001</b> , 6, 128-32	3.7	59
10	Characterization of the photolysis products of sec-butylcobaloximes with imidazole and benzimidazole bases. <i>Journal of Organometallic Chemistry</i> , <b>2001</b> , 632, 85-93	2.3	5
9	Pyridinone oxovanadium(IV) complexes: a new class of insulin mimetic compounds. <i>Transition Metal Chemistry</i> , <b>2001</b> , 26, 219-223	2.1	18
8	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> , <b>2000</b> , 80, 177-9	4.2	27
7	XAFS studies of pyranonate and pyridinone metal(III) complexes. <i>Journal of Synchrotron Radiation</i> , <b>1999</b> , 6, 579-81	2.4	3
6	Photolysis Primary Products of Alkylcobaloximes Controlled by the Cobalt $\delta$ Carbon Bond Strength. <i>Organometallics</i> , <b>1999</b> , 18, 3451-3456	3.8	15
5	Synthesis and characterization of 3-hydroxy-4pyridinone-oxovanadium(IV) complexes. <i>Polyhedron</i> , <b>1997</b> , 16, 789-794	2.7	36
4	Electron spin resonance study of the cobalt(II) species formed after room-temperature photolysis of aqua(sec-butyl)bis(dimethylglyoximato)cobalt(III) in the presence of N-donor bases. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1994</b> , 369		13
3	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> , <b>1991</b> , 10, 3848-3855	3.8	10
2	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> , <b>1990</b> , 160, 267-280	2.9	13
1	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> , <b>1990</b> , 3311		8