

# Valerio Di Marco

## List of Publications by Year in descending order

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76  
papers

1,574  
citations

394421

19  
h-index

330143

37  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospray mass spectrometry (ESI-MS) in the study of metal-ligand solution equilibria. <i>Mass Spectrometry Reviews</i> , 2006, 25, 347-379.	5.4	321
2	Mathematical functions for the representation of chromatographic peaks. <i>Journal of Chromatography A</i> , 2001, 931, 1-30.	3.7	198
3	Thermodynamic Properties of Copper Complexes Used as Catalysts in Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2010, 43, 9257-9267.	4.8	130
4	Metal Chelation Therapy and Parkinson's Disease: A Critical Review on the Thermodynamics of Complex Formation between Relevant Metal Ions and Promising or Established Drugs. <i>Biomolecules</i> , 2019, 9, 269.	4.0	47
5	Altered plasma levels of decanoic acid in colorectal cancer as a new diagnostic biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6321-6328.	3.7	37
6	Electrospray ionization mass spectrometry in studies of aluminium(III)-ligand solution equilibria. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2039-2046.	1.5	35
7	Complexation of 2-hydroxynicotinic and 3-hydroxypicolinic acids with zinc(II). Solution state study and crystal structure of trans-diaqua-bis-(3-hydroxypicolinato)zinc(II). <i>Inorganica Chimica Acta</i> , 2004, 357, 135-142.	2.4	33
8	Vanadate complexes in serum: a speciation modeling study. <i>Dalton Transactions</i> , 2010, 39, 212-220.	3.3	33
9	A Glutathione Derivative with Chelating and in vitro Neuroprotective Activities: Synthesis, Physicochemical Properties, and Biological Evaluation. <i>ChemMedChem</i> , 2013, 8, 1818-1829.	3.2	32
10	Different approaches to the study of chelating agents for iron and aluminium overload pathologies. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 585-601.	3.7	29
11	The metallome of the human placenta in gestational diabetes mellitus. <i>Metallomics</i> , 2015, 7, 1146-1154.	2.4	29
12	Peroxisome proliferator-activated receptor- $\beta$ mediates the anti-inflammatory effect of 3-hydroxy-4-pyridinecarboxylic acid derivatives: Synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2013, 62, 486-497.	5.5	27
13	Formation of metal-organic ligand complexes affects solubility of metals in airborne particles at an urban site in the Po valley. <i>Chemosphere</i> , 2020, 241, 125025.	8.2	26
14	Complexes of Al(III) with d-gluconic acid. <i>Polyhedron</i> , 2008, 27, 118-124.	2.2	25
15	Methyl-Hydroxypyridinecarboxylic Acids as Possible Bidentate Chelating Agents for Aluminium(III): Synthesis and Metal-Ligand Solution Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1284-1293.	2.0	24
16	Evaluation of 2-methyl-3-hydroxy-4-pyridinecarboxylic acid as a possible chelating agent for iron and aluminium. <i>Dalton Transactions</i> , 2008, , 1689.	3.3	22
17	Copper Coordination Chemistry of Sulfur Pendant Cyclen Derivatives: An Attempt to Hinder the Reductive-Induced Demetalation in $^{64/67}\text{Cu}$ Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2021, 60, 11530-11547.	4.0	22
18	1,6-Dimethyl-4-hydroxy-3-pyridinecarboxylic acid and 4-hydroxy-2-methyl-3-pyridinecarboxylic acid as new possible chelating agents for iron and aluminium. <i>Dalton Transactions</i> , 2009, , 1815.	3.3	20

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19	Metal-ligand solution equilibria studied by electrospray ionization mass spectrometry: effect of instrumental parameters. <i>Journal of Mass Spectrometry</i> , 2009, 44, 120-127.	1.6	19
20	Complexation of 2,6-pyridinedicarboxylic and 2,6-pyridinediacetic acids towards aluminium(III) and iron(III). <i>Polyhedron</i> , 2009, 28, 327-335.	2.2	19
21	Perturbations produced by electrospray ionization mass spectrometry in the speciation of aluminium(III)/1,6-dimethyl-4-hydroxy-3-pyridinecarboxylate aqueous solutions. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 868-874.	1.5	19
22	Complexation Properties of Ethylenediaminetetramethylenephosphonic Acid (EDTMP) with Al(III) and V(IV). <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2524-2532.	2.0	18
23	The ISOLPHARM project: ISOL-based production of radionuclides for medical applications. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 73-77.	1.5	18
24	Highly Stable Silver(I) Complexes with Cyclen-Based Ligands Bearing Sulfide Arms: A Step Toward Silver-111 Labeled Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2020, 59, 10907-10919.	4.0	17
25	Complexation of aluminium(III) with 3-hydroxy-2(1H-imidazol-2-ylidene)-pyridinone. Solution state study and crystal structure of tris(3-hydroxy-2(1H-imidazol-2-ylidene)-pyridinonato)aluminium(III). <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 2427-2432.	1.1	16
26	Metal-ligand solution equilibria studied by electrospray ionization mass spectrometry: correlation between ion intensity and acid-base equilibria in solution. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3825-3832.	1.5	16
27	Early Evaluation of Copper Radioisotope Production at ISOLPHARM. <i>Molecules</i> , 2018, 23, 2437.	3.8	16
28	New insights in the slow ligand exchange reaction between Cr(III)-EDTA and Fe(III), and direct analysis of free and complexed EDTA in tannery wastewaters by liquid chromatography - Tandem mass spectrometry. <i>Chemosphere</i> , 2021, 264, 128487.	8.2	15
29	Maternal, placental and cordonal metallomic profiles in gestational diabetes mellitus. <i>Metallomics</i> , 2019, 11, 676-685.	2.4	14
30	A square planar gold(III) bis-(1,1'-dimethyl-3,3'-methylene-diimidazol-2,2'-diylidene) trication as an efficient and selective receptor towards halogen anions: the cooperative effect of Au <sup>+</sup> X <sup>-</sup> and X <sup>-</sup> HC interactions. <i>Dalton Transactions</i> , 2018, 47, 935-945.	3.3	12
31	Ultrace determination of total and available cyanides in industrial wastewaters through a rapid headspace-based sample preparation and gas chromatography with nitrogen phosphorous detection analysis. <i>Journal of Chromatography A</i> , 2013, 1300, 209-216.	3.7	11
32	Metals in <i>Undaria pinnatifida</i> (Harvey) Suringar and <i>Sargassum muticum</i> (Yendo) Fensholt edible seaweeds growing around Venice (Italy). <i>Journal of Applied Phycology</i> , 2016, 28, 2605-2613.	2.8	11
33	Toward novel sulphur-containing derivatives of tetraazacyclododecane: synthesis, acid-base properties, spectroscopic characterization, DFT calculations, and cadmium(II) complex formation in aqueous solution. <i>New Journal of Chemistry</i> , 2020, 44, 8337-8350.	2.8	11
34	Complexation of 3,4-hydroxypyridinecarboxylic acids with Iron(III). <i>Inorganica Chimica Acta</i> , 2004, 357, 3753-3758.	2.4	10
35	Synthesis of 1,4-dihydro-2-methyl-4-oxo-nicotinic acid: Ochiai's route failed. <i>Tetrahedron</i> , 2006, 62, 6222-6227.	1.9	10
36	Evaluation of 4-hydroxy-6-methyl-3-pyridinecarboxylic acid and 2,6-dimethyl-4-hydroxy-3-pyridinecarboxylic acid as chelating agents for iron and aluminium. <i>Inorganica Chimica Acta</i> , 2011, 373, 179-186.	2.4	10

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37	Degradation by-products of ancient paper leaves from wash waters. <i>Analytical Methods</i> , 2015, 7, 8197-8205.	2.7	10
38	A procedure for the quantification of total iodine by inductively coupled plasma mass spectrometry, and its application to the determination of iodine in algae sampled in the lagoon of Venice. <i>Analytical Methods</i> , 2016, 8, 7545-7551.	2.7	10
39	Preliminary evaluation of the production of non-carrier added <sup>111</sup> Ag as core of a therapeutic radiopharmaceutical in the framework of ISOLPHARM_Ag experiment. <i>Applied Radiation and Isotopes</i> , 2020, 164, 109258.	1.5	10
40	Complex formation between aluminium(III) and 2-hydroxy nicotinic acid: an electrospray mass spectrometric investigation. , 1999, 13, 1878-1881.		9
41	2-Hydroxy-3-carboxy-dihydrocinnamic acid: Complexation properties towards aluminium(III) and iron(III). <i>Polyhedron</i> , 2007, 26, 3419-3427.	2.2	9
42	Mass Spectrometric Study of Speciation in Aluminium <sup>III</sup> Fluoroquinolone Solutions. <i>European Journal of Mass Spectrometry</i> , 2012, 18, 313-322.	1.0	9
43	Chelating and antioxidant properties of L-Dopa containing tetrapeptide for the treatment of neurodegenerative diseases. <i>Neuropeptides</i> , 2018, 71, 11-20.	2.2	9
44	When ring makes the difference: coordination properties of Cu <sup>2+</sup> /Cu <sup>+</sup> complexes with sulfur-pendant polyazamacrocycles for radiopharmaceutical applications. <i>New Journal of Chemistry</i> , 2022, 46, 10012-10025.	2.8	9
45	Surface-activated chemical ionization versus electrospray ionization in the study of selected aluminium(III)/ligand solution equilibria. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 710-712.	1.5	8
46	Evaluation of 1-methyl-3,4-hydroxypyridinecarboxylic acids as possible bidentate chelating agents for iron(III): Metal <sup>III</sup> -ligand solution chemistry. <i>Polyhedron</i> , 2007, 26, 3227-3232.	2.2	8
47	Possible Chelating Agents for Iron and Aluminium <sup>III</sup> 4-Hydroxy-5-methyl- and 4-Hydroxy-1,5-dimethyl-3-pyridinecarboxylic Acid. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1310-1319.	2.0	8
48	Spectrophotometric methods for the measurement of soil pH: A reappraisal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 113-118.	3.9	8
49	Bismuth chelation for targeted alpha therapy: Current state of the art. <i>Nuclear Medicine and Biology</i> , 2022, 114-115, 168-188.	0.6	8
50	Potentiometric and NMR studies on Cd <sup>2+</sup> coordination with the histidine-containing Ac184 <sup>188</sup> NH <sub>2</sub> prion protein fragment. <i>Inorganica Chimica Acta</i> , 2007, 360, 4051-4057.	2.4	7
51	Electrochemical characterization of 8-hydroxyquinoline-5-sulphonate/aluminium(III) aqueous solutions. <i>Electrochimica Acta</i> , 2007, 52, 7920-7926.	5.2	7
52	Interactions of pyridinecarboxylic acid chelators with brain metal ions: Cu(II), Zn(II), and Al(III). <i>Monatshefte für Chemie</i> , 2011, 142, 399-410.	1.8	7
53	Evaluation of 1,2-dimethyl-3-hydroxy-4-pyridinecarboxylic acid and of other 3-hydroxy-4-pyridinecarboxylic acid derivatives for possible application in iron and aluminium chelation therapy. <i>Polyhedron</i> , 2014, 67, 520-528.	2.2	7
54	Formation of volatile iodine compounds under hot concentrated acid conditions (nitric acid or aqua) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5	2.2	7

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55	Reduction in absorption of gallium maltolate in adult horses following oral administration with food: chemistry and pharmacokinetics. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2013, 36, 456-461.	1.3	6
56	Tryptophan Catabolism and Response to Therapy in Locally Advanced Rectal Cancer (LARC) Patients. <i>Frontiers in Oncology</i> , 2020, 10, 583228.	2.8	6
57	Revisiting Lead(II)-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic Acid Coordination Chemistry in Aqueous Solutions: Evidence of an Underestimated Thermodynamic Stability. <i>ACS Omega</i> , 2022, 7, 15596-15602.	3.5	6
58	Development of implantation substrates for the collection of radionuclides of medical interest produced via ISOL technique at INFN-LNL. <i>Applied Radiation and Isotopes</i> , 2021, 175, 109795.	1.5	5
59	Metal Ion Release from Fine Particulate Matter Sampled in the Po Valley to an Aqueous Solution Mimicking Fog Water: Kinetics and Solubility. <i>Aerosol and Air Quality Research</i> , 2020, 20, 720-729.	2.1	5
60	Chelation of Theranostic Copper Radioisotopes with S-Rich Macrocycles: From Radiolabelling of Copper-64 to In Vivo Investigation. <i>Molecules</i> , 2022, 27, 4158.	3.8	5
61	Use of electrochemical transient techniques to obtain thermodynamic and kinetic data on aqueous Fe(III)-1,6-dimethyl-4-hydroxy-3-pyridinecarboxylate and Fe(III)-4-hydroxy-2-methyl-3-pyridinecarboxylate complexes. <i>Dalton Transactions</i> , 2009, , 2415.	3.3	4
62	Hydroxypyridinecarboxylic acid derivatives influencing metal ion levels in the brain: Equilibrium complexation studies with Cu(II) and Zn(II). <i>Polyhedron</i> , 2014, 67, 481-489.	2.2	4
63	Cyclic Voltammetry as a New Approach for the Determination of Solubility of Aliphatic Amines in Water. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 895-901.	1.9	4
64	Field-assisted paper spray mass spectrometry for therapeutic drug monitoring: 1. the case of imatinib in plasma. <i>Journal of Mass Spectrometry</i> , 2017, 52, 283-289.	1.6	4
65	Relationship between solid state structure and solution stability of copper(II)-hydroxypyridinecarboxylate complexes. <i>New Journal of Chemistry</i> , 2019, 43, 10699-10710.	2.8	4
66	pH-static titrations for kinetic studies of metal-ligand complex formation: The case example of the reaction between Strontium(II) and DOTA. <i>Inorganica Chimica Acta</i> , 2019, 498, 119147.	2.4	3
67	Chemical purification of <sup>111</sup> Ag from isobaric impurity <sup>111</sup> Cd by solid phase extraction chromatography: a proof of concept study. <i>Applied Radiation and Isotopes</i> , 2020, 164, 109263.	1.5	3
68	New homoleptic gold carbene complexes via Ag-Au transmetalation: synthesis and application of [Au(diNHC) <sub>2</sub> ] <sup>3+</sup> cations as <sup>1</sup> H-NMR and UV-vis halide sensors. <i>New Journal of Chemistry</i> , 2020, 44, 5343-5353.	2.8	3
69	Emerging investigator series: aqueous-phase processing of atmospheric aerosol influences dissolution kinetics of metal ions in an urban background site in the Po Valley. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 884-897.	3.5	3
70	4-Hydroxy-3,5-pyridinedicarboxylic Acids: Synthesis, Complexation Properties Towards Fe(III), Al(III), Cu(II), Zn(II), Human Serum Albumin, and Cellular Toxicity. <i>Journal of Solution Chemistry</i> , 2018, 47, 92-106.	1.2	2
71	Crystal structures of zinc(II) complexes with 1 <sup>2</sup> -hydroxypyridinecarboxylate ligands: examples of structure-directing effects used in inorganic crystal engineering. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 193-204.	1.1	2
72	Use of a simple empirical model for the accurate conversion of the seawater pH value measured with NIST calibration into seawater pH scales. <i>Talanta</i> , 2021, 225, 122051.	5.5	2

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73	Ion Pair Formation between Tertiary Aliphatic Amines and Perchlorate in the Biphasic Water/Dichloromethane System. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9403-9410.	2.6	1
74	Interactions of pyridinecarboxylic acid chelators with brain metal ions: Cu(II), Zn(II), and Al(III). , 2012, , 199-210.		0
75	Chemical characterisation, plant remain analysis and radiocarbon dating of the Venetian "Manna di San Nicola". <i>Annali Di Chimica</i> , 2002, 92, 327-32.	0.6	0
76	Atmospheric Solids Analysis Probe with Mass Spectrometry for Chlorpyrifos and Chlorpyrifos-Oxon Determination in Apples. <i>Acta Chimica Slovenica</i> , 2019, 66, 70-77.	0.6	0