

# AndrÃ© L.B. Formiga

## List of Publications by Year in descending order

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90  
papers

1,637  
citations

257357

24  
h-index

360920

35  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced performance of 3D printed graphene electrodes after electrochemical pre-treatment: Role of exposed graphene sheets. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 837-848.	4.0	99
2	A polymer gel electrolyte composed of a poly(ethylene oxide) copolymer and the influence of its composition on the dynamics and performance of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2010, 195, 1246-1255.	4.0	71
3	Photocytotoxic activity of a nitrosyl phthalocyanine ruthenium complex " A system capable of producing nitric oxide and singlet oxygen. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1035-1043.	1.5	59
4	Sensitization of TiO <sub>2</sub> by Supramolecules Containing Zinc Porphyrins and Ruthenium"Polypyridyl Complexes. <i>Inorganic Chemistry</i> , 2004, 43, 396-398.	1.9	53
5	Gold(I)-Phosphine-N-Heterocycles: Biological Activity and Specific (Ligand) Interactions on the C-Terminal HIVNCP7 Zinc Finger. <i>Inorganic Chemistry</i> , 2013, 52, 11280-11287.	1.9	50
6	Spin State Energetics and Oxy Character of Mn-Oxo Porphyrins by Multiconfigurational ab Initio Calculations: Implications on Reactivity. <i>Inorganic Chemistry</i> , 2016, 55, 5168-5179.	1.9	45
7	Crystal structure and theoretical studies of the keto-enol isomerism of N,N"bis(salicylidene)-o-phenylenediamine (salophen). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 110-115.	2.0	44
8	Synthesis, spectroscopic characterization, DFT studies and antibacterial assays of a novel silver(I) complex with the anti-inflammatory nimesulide. <i>Polyhedron</i> , 2012, 36, 112-119.	1.0	40
9	Photoelectrochemical properties of supramolecular species containing porphyrin and ruthenium complexes on TiO <sub>2</sub> films. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 56.	1.6	38
10	A highly efficient redox chromophore for simultaneous application in a photoelectrochemical dye sensitized solar cell and electrochromic devices. <i>New Journal of Chemistry</i> , 2005, 29, 320-324.	1.4	37
11	A nitric oxide releaser based on the 1/4-oxo-hexaacetate-bis(4-methylpyridine)triruthenium nitrosyl complex. <i>Inorganica Chimica Acta</i> , 2005, 358, 2891-2899.	1.2	34
12	A silver complex with ibuprofen: Synthesis, solid state characterization, DFT calculations and antibacterial assays. <i>Journal of Molecular Structure</i> , 2013, 1049, 1-6.	1.8	34
13	A silver complex with tryptophan: Synthesis, structural characterization, DFT studies and antibacterial and antitumor assays in vitro. <i>Journal of Molecular Structure</i> , 2013, 1031, 125-131.	1.8	33
14	3D-Printed Low-Cost Spectroelectrochemical Cell for In Situ Raman Measurements. <i>Analytical Chemistry</i> , 2019, 91, 10386-10389.	3.2	32
15	Enhanced electrochemical and electrocatalytic activity of a new supramolecular manganese-porphyrin species containing four bis(bipyridine)(aqua)ruthenium(II) complexes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 562, 145-152.	1.9	31
16	The use of modified electrodes by hybrid systems gold nanoparticles/Mn-porphyrin in electrochemical detection of cysteine. <i>Synthetic Metals</i> , 2014, 198, 335-339.	2.1	31
17	Synthesis of amine-tagged metal"organic frameworks isostructural to MIL-101(Cr). <i>RSC Advances</i> , 2013, 3, 10181.	1.7	30
18	Electrochemical water oxidation by cobalt-Prussian blue coordination polymer and theoretical studies of the electronic structure of the active species. <i>Dalton Transactions</i> , 2019, 48, 4811-4822.	1.6	30

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19	Silver(I) and gold(I) complexes with penicillamine: Synthesis, spectroscopic characterization and biological studies. <i>Polyhedron</i> , 2012, 34, 210-214.	1.0	29
20	Synthesis, spectroscopic characterization, DFT studies, and initial antibacterial assays <i>in vitro</i> of a new palladium(II) complex with tryptophan. <i>Journal of Coordination Chemistry</i> , 2012, 65, 1700-1711.	0.8	26
21	Complexes of platinum and palladium with $\beta^2$ -diketones and DMSO: Synthesis, characterization, molecular modeling, and biological studies. <i>Journal of Molecular Structure</i> , 2014, 1075, 370-376.	1.8	26
22	Study of the spectroscopic and electrochemical properties of tetraruthenated porphyrins by theoretical–experimental approach. <i>Inorganica Chimica Acta</i> , 2005, 358, 2629-2642.	1.2	25
23	Vibrational spectra and theoretical studies of tautomerism and hydrogen bonding in the violuric acid and 6-amino-5-nitrosouracil system. <i>Vibrational Spectroscopy</i> , 2007, 44, 133-141.	1.2	25
24	Investigation of a novel trinuclear $\mu_4$ -oxo ruthenium complex as a potential nitric oxide releaser for biological purposes. <i>Inorganica Chimica Acta</i> , 2015, 429, 114-121.	1.2	25
25	Enhanced performance of a metal-organic framework analogue to MIL-101(Cr) containing amine groups for ibuprofen and nimesulide controlled release. <i>Inorganic Chemistry Communication</i> , 2016, 70, 47-50.	1.8	25
26	Conduction and photoelectrochemical properties of monomeric and electropolymerized tetraruthenated porphyrin films. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 359.	1.6	24
27	Chemical, spectroscopic characterization, DFT studies and initial pharmacological assays of a silver(I) complex with N-acetyl-L-cysteine. <i>Polyhedron</i> , 2011, 30, 579-583.	1.0	24
28	Modified electrode using multi-walled carbon nanotubes and a metallopolymer for amperometric detection of L-cysteine. <i>Electrochimica Acta</i> , 2013, 113, 332-339.	2.6	24
29	Contrasting photoelectrochemical behaviour of two isomeric supramolecular dyes based on meso-tetra(pyridyl)porphyrin incorporating four $\mu_4$ -oxo- triruthenium(III) clusters. <i>New Journal of Chemistry</i> , 2008, 32, 1167.	1.4	23
30	Electrospray Ionization Tandem Mass Spectrometry of Polymetallic $\mu_4$ -Oxo- and Carboxylate-Bridged $[\text{Ru}_3\text{O}(\text{CH}_3\text{COO})_6(\text{Py})_2(\text{L})]^+$ Complexes: $\Delta$ Intrinsic Ligand (L) Affinities with Direct Access to Steric Effects. <i>Organometallics</i> , 2006, 25, 3245-3250.	1.1	22
31	Electronic Spectra of N-Heterocyclic Pentacyanoferrate(II) Complexes in Different Solvents, Studied by Multiconfigurational Perturbation Theory. <i>Inorganic Chemistry</i> , 2013, 52, 10653-10663.	1.9	22
32	Silver(I) complexes with symmetrical Schiff bases: Synthesis, structural characterization, DFT studies and antimycobacterial assays. <i>Polyhedron</i> , 2013, 62, 104-109.	1.0	22
33	The influence of carboxylate, phosphinate and seleninate groups on luminescent properties of lanthanides complexes. <i>Journal of Luminescence</i> , 2014, 154, 22-31.	1.5	22
34	Spectroscopic characterization and molecular modeling of novel palladium(II) complexes with carbazates and hydrazides. <i>Journal of Molecular Structure</i> , 2015, 1097, 15-22.	1.8	22
35	Proton-Coupled Redox Chemistry, Oxidative Reactivity, and Electronic Characterization of Aqua-, Hydroxo-, and Oxo-Triruthenium Clusters. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1487-1495.	1.0	21
36	Studies of the tautomeric equilibrium of 1,3-thiazolidine-2-thione: Theoretical and experimental approaches. <i>Chemical Physics</i> , 2012, 408, 62-68.	0.9	20

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37	Supramolecular Interactions between Inorganic and Organic Blocks of Pentacyanoferrate/Poly(4-vinylpyridine) Hybrid Metallopolymer. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14933-14942.	1.2	19
38	Synthesis, spectroscopic characterization, DFT studies and biological assays of a novel gold(I) complex with 2-mercaptothiazoline. <i>Polyhedron</i> , 2011, 30, 2354-2359.	1.0	18
39	Pt(II) and Pd(II) complexes with ibuprofen hydrazide: Characterization, theoretical calculations, antibacterial and antitumor assays and studies of interaction with CT-DNA. <i>Journal of Molecular Structure</i> , 2018, 1154, 469-479.	1.8	17
40	Palladium(II) complex with S-allyl-L-cysteine: New solid-state NMR spectroscopic measurements, molecular modeling and antibacterial assays. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 313-318.	2.0	16
41	Spontaneous formation of highly dispersed spheroidal metallic silver nanoparticles in surfactant-free N,N-dimethylacetamide. <i>Synthetic Metals</i> , 2011, 161, 1517-1521.	2.1	15
42	Chemical and spectroscopic characterizations, ESI-QTOF mass spectrometric measurements and DFT studies of new complexes of palladium(II) with tryptamine and mefenamic acid. <i>Journal of Molecular Structure</i> , 2015, 1100, 6-13.	1.8	15
43	Synthesis, characterization and preliminary antimicrobial assays of copper(II) complexes with 2-(imidazole-2-yl)heteroaryl ligands. <i>Inorganica Chimica Acta</i> , 2017, 458, 224-232.	1.2	15
44	An extended $\pi$ -system and enhanced electronic delocalization on symmetric $[\text{Ru}^{3+}_3\text{O}(\text{CH}_3)_3\text{COO}]_6(\text{L})_3$ complexes combined with azanaphthalene ligands. <i>Dalton Transactions</i> , 2017, 46, 7926-7938.	1.6	15
45	Synthesis, spectroscopic characterization, DFT studies, and antibacterial and antitumor activities of a novel water soluble Pd(II) complex with L-alliin. <i>Journal of Molecular Structure</i> , 2013, 1035, 421-426.	1.8	14
46	Switching the Spin-Crossover Phenomenon by Ligand Design on Imidazole-Diazineiron(II) Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 14603-14616.	1.9	14
47	A binuclear silver complex with L-buthionine sulfoximine: synthesis, spectroscopic characterization, DFT studies and antibacterial assays. <i>RSC Advances</i> , 2012, 2, 10372.	1.7	13
48	Prussian Blue Films Produced by Pentacyanidoferrate(II) and Their Application as Active Electrochemical Layers. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5812-N5819.	1.0	13
49	Copper(II), palladium(II) and platinum(II) complexes with 2,2-thiophen-yl-imidazole: Synthesis, spectroscopic characterization, X-ray crystallographic studies and interactions with calf-thymus DNA. <i>Inorganica Chimica Acta</i> , 2016, 443, 304-315.	1.2	13
50	Anticancer activity and DNA interaction of ruthenium acetate clusters bearing azanaphthalene ancillary ligands. <i>Polyhedron</i> , 2020, 176, 114261.	1.0	13
51	Electrocatalytic water oxidation reaction promoted by cobalt-Prussian blue and its thermal decomposition product under mild conditions. <i>Dalton Transactions</i> , 2020, 49, 16488-16497.	1.6	13
52	A- $\beta$ -cyclodextrin/siloxane hybrid polymer: synthesis, characterization and inclusion complexes. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 1867-1876.	0.6	12
53	NMR study of the leaving ligand and solvent effects on the solvolysis of $(\eta^4\text{-oxo})\text{bis}(\eta^4\text{-acetato})\text{diruthenium(III)}$ complexes. <i>Chemical Physics</i> , 2004, 306, 143-151.	0.9	11
54	Synthesis and Electrochemical Characterization of Poly(2-methoxy-4-vinylphenol) with MWCNTs. <i>Electroanalysis</i> , 2011, 23, 2562-2568.	1.5	11

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55	Synthesis, structural and magnetic characterization of a copper(II) complex of 2,6-di(1H-imidazol-2-yl)pyridine and its application in copper-mediated polymerization catalysis. <i>Inorganica Chimica Acta</i> , 2017, 466, 456-463.	1.2	11
56	Synthesis, crystallographic studies, molecular modeling and in vitro biological studies of silver(I) complexes with aminoadamantane ligands. <i>Polyhedron</i> , 2019, 173, 114116.	1.0	11
57	Probing the electronic delocalization in a cyclic pyrazine ruthenium cluster hexamer. <i>Inorganic Chemistry Communication</i> , 2010, 13, 1032-1035.	1.8	10
58	Chemical, spectroscopic characterization, DFT studies and antibacterial activities in vitro of a new gold(I) complex with rimantadine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 114-118.	2.0	10
59	In situ activated nanostructured platform for oxidized glutathione biosensing. <i>Electrochimica Acta</i> , 2013, 90, 309-316.	2.6	10
60	One-step synthesis of polymer core-shell particles with a carboxylated ruthenium complex: a potential tool for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2236.	2.9	10
61	A new platinum complex with tryptophan: Synthesis, structural characterization, DFT studies and biological assays in vitro over human tumorigenic cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 209-215.	2.0	10
62	A theoretical study of the tautomerism and vibrational spectra of 4,5-diamine-2,6-dimercaptoprimidine. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, .	0.6	7
63	Synthesis, spectroscopic characterization, and antibacterial assays <i>in vitro</i> of a new platinum(II) complex with methionine sulfoxide. <i>Journal of Coordination Chemistry</i> , 2011, 64, 272-280.	0.8	6
64	Enzyme-like Selectivity on Metalloporphyrin-catalyzed Oxidation by a Linear Homopolymer. <i>ChemistrySelect</i> , 2016, 1, 2235-2243.	0.7	6
65	Effects of a strong $\pi$ -accepting ancillary ligand on the water oxidation activity of weakly coupled binuclear ruthenium catalysts. <i>Dalton Transactions</i> , 2019, 48, 3009-3017.	1.6	6
66	Copper transporter 1 affinity as a delivery strategy to improve the cytotoxic profile of rationally designed copper(II) complexes for cancer treatment. <i>Toxicology in Vitro</i> , 2020, 67, 104922.	1.1	6
67	Improving Cytotoxicity against Breast Cancer Cells by Using Mixed-Ligand Ruthenium(II) Complexes of 2,2'-Bipyridine, Amino Acid, and Nitric Oxide Derivatives as Potential Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2021, 21, 1602-1611.	0.9	6
68	NMR and molecular modeling study of ligand exchange induced structural changes in diruthenium complexes. <i>Journal of Molecular Structure</i> , 2002, 608, 143-149.	1.8	5
69	Estimating the Individual Spectroscopic Properties of Three Unique Eu <sup>III</sup> Sites in a Coordination Polymer. <i>Inorganic Chemistry</i> , 2018, 57, 15421-15429.	1.9	5
70	Synthesis of rhenacyclopentadienes and $\lambda^2$ - $\lambda^2$ -diyne complexes from a labile dirhenium carbonyl and $\pi$ -conjugated 1,7-octadiynes: Structural and photophysical characterization. <i>Journal of Organometallic Chemistry</i> , 2019, 881, 34-44.	0.8	5
71	Performance of Water Oxidation by 3D Printed Electrodes Modified by Prussian Blue Analogues. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	5
72	Electrocatalytic oxidation of methanol by the [Ru <sub>3</sub> O(OAc) <sub>6</sub> (py) <sub>2</sub> (CH <sub>3</sub> OH)] <sup>3+</sup> -cluster: improving the metal-ligand electron transfer by accessing the higher oxidation states of a multicentered system. <i>Quimica Nova</i> , 2010, 33, 2046-2050.	0.3	4

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73	Synthesis, spectroscopic characterizations, crystal structures and DFT studies of nalidixic acid carbonyl hydrazones derivatives. <i>Journal of Molecular Structure</i> , 2016, 1120, 115-124.	1.8	4
74	Crystal structure, electrochemical and spectroscopic investigation of $\text{[Ru}^{\text{II}}\text{L}_2\text{PF}_6\text{]}_3 \cdot 3\text{H}_2\text{O}$ pyrimidine- $\text{N}^{\text{C}}$ - $\text{N}^{\text{N}}$ -tris[2-(1H-imidazol-2-yl)]ruthenium(II) bis(hexafluoridophosphate) trihydrate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 874-877.	0.2	4
75	A novel binuclear copper complex incorporating a nalidixic acid derivative displaying a one-dimensional coordination polymeric structure. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2016, 72, 544-548.	0.2	3
76	A series of three isostructural 1D lanthanide coordination network based on 4,4'-bis((benzene-1,3,5-triyltris(methylene))tris(oxy))tribenzoate ligand: Synthesis, crystal structure and photophysical properties. <i>Inorganica Chimica Acta</i> , 2019, 494, 21-29.	1.2	3
77	A simple method to synthesize fluorescent modified gold nanoparticles using tryptamine as the reducing and capping agent. <i>Synthetic Metals</i> , 2013, 185-186, 61-65.	2.1	2
78	Crystal structure and cytotoxic activities of a bis(pyrrrolyl-imine) gold(III) complex. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2707-2722.	0.8	2
79	Employing Small Polyfunctionalized Molecules for a Diastereoselective Synthesis of Highly Substituted Indolines. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3211-3223.	1.2	2
80	Analysis of solvent-accessible voids and proton-coupled electron transfer of 2,6-bis(1H-imidazol-2-yl)pyridine and its hydrochloride. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1359-1371.	0.2	2
81	Synergistic Supramolecular Effect on the Electro-Oxidation of Biological Relevant Molecules: A Novel Sensor for Simultaneous Determination of Epinephrine and Uric Acid in Human Urine Using MWCNT and a Copper(II) Complex. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
82	Synthesis, spectroscopic characterization and molecular modeling of a tetranuclear platinum(II) complex with thiazolidine-4-carboxylic acid. <i>Journal of Molecular Structure</i> , 2012, 1019, 21-26.	1.8	1
83	A Versatile Approach to Noncoded $\beta$ -Hydroxy- $\alpha$ -amino Esters and $\alpha$ -Amino Acids/Esters from Morita-Baylis-Hillman Adducts. <i>Synthesis</i> , 2014, 47, 113-123.	1.2	1
84	Supramolecular Approach to Decorate Multi-Walled Carbon Nanotubes with Negatively Charged Iron(II) Complexes. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	1
85	Acetatos homo e heterotrínucleares de ferro: um experimento para o laboratório de química de coordenação. <i>Química Nova</i> , 2010, 33, 1815-1820.	0.3	1
86	Desenvolvimento de célula para espectroeletrônica Raman para estudos de mecanismo de reação em processos de oxidação de água. , 0, , .		1
87	Role of Protonation and Isomerism in the Supramolecular Architectures of Heteroaryl-2-imidazole Compounds: Crystal Packing Patterns and Energetics. <i>Crystal Growth and Design</i> , 2020, 20, 5143-5159.	1.4	0
88	Study of the water oxidation mechanism by ruthenium(ii) complexes containing N-heterocyclic ligands. , 0, , .		0
89	CONSTRUÇÃO DE EQUIPAMENTO DE BAIXO CUSTO PARA ENROLAR FILAMENTOS DE IMPRESSORAS 3D. <i>Química Nova</i> , 0, , .	0.3	0
90	Studying the catecholamine effect on the electronic delocalization of the paramagnetic $[\text{Ru}(\text{NH}_3)_4(\text{catecholamine})]^+$ complex through 1H-NMR, theoretical calculations, and resonance Raman. <i>Journal of Coordination Chemistry</i> , 2020, 73, 191-205.	0.8	0