

Luiz Gonzaga de França Lopes

List of Publications by Year in descending order

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100
papers

1,714
citations

304368

22
h-index

360668

35
g-index

102
all docs

102
docs citations

102
times ranked

1504
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Ruthenium Compounds in Neurologic Diseases: A Minireview. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2022, 380, 47-53.	1.3	5
2	The nitric oxide pathway is involved in the anti-inflammatory effect of the ruthenium complex [Ru(bpy) ₂ (2-MIM)(NO)](PF ₆) ₃ . <i>European Journal of Pharmacology</i> , 2022, 921, 174869.	1.7	1
3	A bis-indazolic ruthenium(II) complex: Reactivity and biological studies on cancer cells. <i>Inorganica Chimica Acta</i> , 2021, 516, 120125.	1.2	4
4	Anti-asthmatic effect of nitric oxide metallo-donor FOR811A [cis-[Ru(bpy) ₂ (2-MIM)(NO)](PF ₆) ₃] in the respiratory mechanics of Swiss mice. <i>PLoS ONE</i> , 2021, 16, e0248394.	1.1	6
5	Further Insights into the Oxidative Pathway of Thiocarbonyl-Type Antitubercular Prodrugs: Ethionamide, Thioacetazone, and Isoxyl. <i>Chemical Research in Toxicology</i> , 2021, 34, 1879-1889.	1.7	4
6	When NO ⁺ Is not Enough: Chemical Systems, Advances and Challenges in the Development of NO ⁺ and HNO Donors for Old and Current Medical Issues. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4316-4348.	1.0	12
7	Bioinorganic systems responsive to the diatomic gases O ₂ , NO, and CO: From biological sensors to therapy. <i>Coordination Chemistry Reviews</i> , 2021, 445, 214096.	9.5	14
8	Nitric Oxide as a Central Molecule in Hypertension: Focus on the Vasorelaxant Activity of New Nitric Oxide Donors. <i>Biology</i> , 2021, 10, 1041.	1.3	21
9	The biofilm inhibition activity of a NO donor nanosilica with enhanced antibiotics action. <i>International Journal of Pharmaceutics</i> , 2021, 610, 121220.	2.6	14
10	Synthesis and potential vasorelaxant effect of a novel ruthenium-based nitro complex. <i>Journal of Inorganic Biochemistry</i> , 2021, 228, 111666.	1.5	1
11	Light-induced disruption of an acyl hydrazone link as a novel strategy for drug release and activation: isoniazid as a proof-of-concept case. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 859-870.	3.0	12
12	Potential therapeutic approaches for a sleeping pathogen: tuberculosis a case for bioinorganic chemistry. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 685-704.	1.1	6
13	Pentacyanoferrate(II) complex of pyridine-4- and pyrazine-2-hydroxamic acid as source of HNO: investigation of anti-tubercular and vasodilation activities. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 887-901.	1.1	8
14	Electrochemical, mechanistic, and DFT studies of amine derived diphosphines containing Ru(η ⁵ -cymene) complexes with potent <i>in vitro</i> cytotoxic activity against HeLa and triple-negative breast cancer cells MDA-MB-231. <i>Dalton Transactions</i> , 2020, 49, 16498-16514.	1.6	6
15	A bioinorganic chemistry perspective on the roles of metals as drugs and targets against <i>Mycobacterium tuberculosis</i> – a journey of opportunities. <i>Dalton Transactions</i> , 2020, 49, 15988-16003.	1.6	8
16	A divergent mode of activation of a nitrosyl iron complex with unusual antiangiogenic activity. <i>Journal of Inorganic Biochemistry</i> , 2020, 210, 111133.	1.5	7
17	Antihypertensive potential of cis-[Ru(bpy) ₂ (ImN)(NO)] ³⁺ , a ruthenium-based nitric oxide donor. <i>Research in Veterinary Science</i> , 2020, 130, 153-160.	0.9	12
18	An unusual bidentate methionine ruthenium(II) complex: photo-uncaging and antimicrobial activity. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 419-428.	1.1	24

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19	Mechanistic insights into the <i>in vitro</i> metal-promoted oxidation of (di)azine hydroxamic acids: evidence of HNO release and <i>N</i> , <i>O</i> -di(di)azinoyl hydroxylamine intermediate. <i>New Journal of Chemistry</i> , 2020, 44, 11965-11973.	1.4	2
20	Nitro-imidazole-based ruthenium complexes with antioxidant and anti-inflammatory activities. <i>Journal of Inorganic Biochemistry</i> , 2020, 206, 111048.	1.5	25
21	An anthracene-pendant ruthenium(II) complex conjugated to a biotin anchor, an essential handle for photo-induced anti-cancer activity. <i>New Journal of Chemistry</i> , 2020, 44, 6610-6622.	1.4	9
22	Biphosphinic ruthenium complexes as the promising antimicrobial agents. <i>New Journal of Chemistry</i> , 2020, 44, 21318-21325.	1.4	11
23	Antimicrobial activity and antibiotic synergy of a biphosphinic ruthenium complex against clinically relevant bacteria. <i>Biofouling</i> , 2020, 36, 442-454.	0.8	11
24	THE FUNDAMENTAL IMPORTANCE OF BASIC SCIENCE: EXAMPLES OF HIGH-IMPACT DISCOVERIES FROM AN INTERNATIONAL CHEMISTRY NETWORK. <i>Quimica Nova</i> , 2020, , .	0.3	1
25	A spectroelectrochemical investigation of the heme-based sensor DevS from <i>Mycobacterium tuberculosis</i> : a redox versus oxygen sensor. <i>FEBS Journal</i> , 2019, 286, 4278-4293.	2.2	11
26	In vitro and in vivo leishmanicidal activity of a ruthenium nitrosyl complex against <i>Leishmania (Viannia) braziliensis</i> . <i>Acta Tropica</i> , 2019, 192, 61-65.	0.9	21
27	Incorporation of Nitroprusside on Silica Nanoparticles—A Strategy for Safer Use of This NO Donor in Therapy. <i>Molecular Pharmaceutics</i> , 2019, 16, 2912-2921.	2.3	13
28	A new water-soluble ruthenium(II) carbonyl complex: cis-[Ru(bpy) ₂ (SO ₃)(CO)]. <i>Polyhedron</i> , 2019, 167, 111-118.	1.0	7
29	[Ru(bpy) ₂ (NO)SO ₃](PF ₆), a Nitric Oxide Donating Ruthenium Complex, Reduces Gout Arthritis in Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 229.	1.6	16
30	Oxygen triggers signal transduction in the DevS (DosS) sensor of <i>Mycobacterium tuberculosis</i> by modulating the quaternary structure. <i>FEBS Journal</i> , 2019, 286, 479-494.	2.2	13
31	New metallopharmaceutic reduced renal injury induced by non-steroidal anti-inflammatory. <i>Acta Cirurgica Brasileira</i> , 2019, 34, e201901201.	0.3	0
32	Antioxidant Activity of Ruthenium Complexes Containing Nitroimidazole Derivatives. <i>FASEB Journal</i> , 2019, 33, 670.18.	0.2	0
33	Thiocarbonyl-bound metallonitrosyl complexes with visible-light induced DNA cleavage and promising vasodilation activity. <i>Journal of Inorganic Biochemistry</i> , 2018, 182, 83-91.	1.5	19
34	Antimicrobial activity of cis-[Ru(bpy) ₂ (L)(L ²)] ⁺ complexes, where L ² = 4-(4-chlorobenzoyl)pyridine or 4-(benzoyl)pyridine and L ² = Cl ⁻ or CO. <i>Polyhedron</i> , 2018, 144, 88-94.	1.0	15
35	Synthesis and mechanistic investigation of iron(II) complexes of isoniazid and derivatives as a redox-mediated activation strategy for anti-tuberculosis therapy. <i>Journal of Inorganic Biochemistry</i> , 2018, 179, 71-81.	1.5	16
36	Is IQG-607 a Potential Metallo-drug or Metallopro-Drug With a Defined Molecular Target in <i>Mycobacterium tuberculosis</i> ?. <i>Frontiers in Microbiology</i> , 2018, 9, 880.	1.5	10

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37	Insights into signal transduction by a hybrid FixL: Denaturation study of on and off states of a multi-domain oxygen sensor. <i>Journal of Inorganic Biochemistry</i> , 2017, 172, 129-137.	1.5	6
38	Photochemical studies of cis-[Ru(bpy) ₂ (4-bzpy)(CO)](PF ₆) ₂ and cis-[Ru(bpy) ₂ (4-bzpy)(Cl)](PF ₆): Blue light-induced nucleobase binding. <i>Journal of Inorganic Biochemistry</i> , 2017, 173, 144-151.	1.5	16
39	Drug discovery targeting heme-based sensors and their coupled activities. <i>Journal of Inorganic Biochemistry</i> , 2017, 167, 12-20.	1.5	19
40	A biphosphinic ruthenium complex with potent anti-bacterial and anti-cancer activity. <i>New Journal of Chemistry</i> , 2017, 41, 13085-13095.	1.4	22
41	Aryl-Substituted Ruthenium(II) Complexes: A Strategy for Enhanced Photocleavage and Efficient DNA Binding. <i>Inorganic Chemistry</i> , 2017, 56, 9084-9096.	1.9	39
42	Antileishmanial Activity and Inducible Nitric Oxide Synthase Activation by RuNO Complex. <i>Mediators of Inflammation</i> , 2016, 2016, 1-10.	1.4	12
43	The Heme-Based Oxygen Sensor Rhizobium etli FixL: Influence of Auxiliary Ligands on Heme Redox Potential and Implications on the Enzyme Activity. <i>Journal of Inorganic Biochemistry</i> , 2016, 164, 34-41.	1.5	10
44	Thiol-Activated HNO Release from a Ruthenium Antiangiogenesis Complex and HIF-1 α Inhibition for Cancer Therapy. <i>ACS Chemical Biology</i> , 2016, 11, 2057-2065.	1.6	41
45	Relaxant effect of a metal-based drug in human corpora cavernosa and its mechanism of action. <i>International Journal of Impotence Research</i> , 2016, 28, 20-24.	1.0	10
46	Ruthenium(II) bipyridine complexes with pendant anthracenyl and naphthyl moieties: A strategy for a ROS generator with DNA binding selectivity. <i>Inorganica Chimica Acta</i> , 2016, 439, 92-99.	1.2	21
47	Photochemical and Electrochemical Study of the Release of Nitric Oxide from [Ru(bpy) ₂ L(NO)](PF ₆) _n Complexes (L = Imidazole, 1-Methylimidazole, Sulfite and Thiourea), Toward the Development of Therapeutic Photodynamic Agents. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	2
48	Antitubercular activity of Ru (II) isoniazid complexes. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 70, 45-54.	1.9	22
49	The nitric oxide donor cis-[Ru(bpy) ₂ (SO ₃)NO](PF ₆) increases gastric mucosa protection in mice – Involvement of the soluble guanylate cyclase/KATP pathway. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 45, 35-42.	1.2	26
50	Non-nitric oxide based metallovasodilators: synthesis, reactivity and biological studies. <i>Dalton Transactions</i> , 2015, 44, 13633-13640.	1.6	16
51	Nitric Oxide and Brazilian Propolis Combined Accelerates Tissue Repair by Modulating Cell Migration, Cytokine Production and Collagen Deposition in Experimental Leishmaniasis. <i>PLoS ONE</i> , 2015, 10, e0125101.	1.1	33
52	Nitric Oxide Donors with Therapeutic Strategic in Experimental & Schistosomiasis Mansoni. <i>American Journal of Immunology</i> , 2014, 10, 225-239.	0.1	3
53	The ruthenium nitric oxide donor, [Ru(HEDTA)NO], inhibits acute nociception in mice by modulating oxidative stress, cytokine production and activating the cGMP/PKG/ATP-sensitive potassium channel signaling pathway. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 1053-1068.	1.4	12
54	[Fe(CN) ₅ (isoniazid)] ³⁻ : An iron isoniazid complex with redox behavior implicated in tuberculosis therapy. <i>Journal of Inorganic Biochemistry</i> , 2014, 140, 236-244.	1.5	26

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55	Chemical Solutions: Development, Use and Evaluation of an Educational Software. <i>Revista Virtual De Quimica</i> , 2014, 6, .	0.1	1
56	Synthesis, characterization and dielectric properties of [Ru(SO ₃)(bpy) ₂ (TCNX)] complexes. <i>Polyhedron</i> , 2013, 61, 213-217.	1.0	0
57	Electrochemical and Monte Carlo studies of self-assembled trans-[Fe(cyclam)(NCS) ₂] ⁺ complex ion on gold surface as electrochemical sensor for nitric oxide. <i>Electrochimica Acta</i> , 2013, 91, 1-10.	2.6	8
58	The ruthenium NO donor, [Ru(bpy) ₂ (NO)SO ₃](PF ₆), inhibits inflammatory pain: Involvement of TRPV1 and cGMP/PKG/ATP-sensitive potassium channel signaling pathway. <i>Pharmacology Biochemistry and Behavior</i> , 2013, 105, 157-165.	1.3	29
59	Electrochemistry, Surface Plasmon Resonance, and Quartz Crystal Microbalance: An Associative Study on Cytochrome <i>c</i> Adsorption on Pyridine Tail-Group Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8673-8680.	1.2	11
60	Activity of IQG-607, a new orally active compound, in a murine model of Mycobacterium tuberculosis infection. <i>International Journal of Antimicrobial Agents</i> , 2012, 40, 182-185.	1.1	29
61	Preconditioning with a Novel Metallopharmaceutical NO Donor in Anesthetized Rats Subjected to Brain Ischemia/Reperfusion. <i>Neurochemical Research</i> , 2012, 37, 749-758.	1.6	30
62	Isoniazid metal complex reactivity and insights for a novel anti-tuberculosis drug design. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 275-283.	1.1	33
63	Effects of Rut-bpy (Cis-[Ru(bpy) ₂ (SO ₃)(NO)]PF ₆), a novel nitric oxide donor, in L-NAME-induced hypertension in rats. <i>Acta Cirurgica Brasileira</i> , 2011, 26, 57-59.	0.3	7
64	Asymmetric heterobimetallic mixed-valence complex trans-[(SO ₃)Co(cyclam)(NCS)Ru(NH ₃) ₄ (NCS)](BF ₄): Synthesis and characterization. <i>Polyhedron</i> , 2011, 30, 2083-2089.	1.0	2
65	Experimental Chemotherapy in Paracoccidioidomycosis Using Ruthenium NO Donor. <i>Mycopathologia</i> , 2011, 172, 95-107.	1.3	15
66	Study of a gold electrode modified by trans-[Ru(NH ₃) ₄ (SO ₄) ⁺] to produce an electrochemical sensor for nitric oxide. <i>Electrochimica Acta</i> , 2011, 56, 5686-5692.	2.6	7
67	Mechanism and biological implications of the NO release of cis-[Ru(bpy) ₂ L(NO)] ⁿ⁺ complexes: A key role of physiological thiols. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 624-629.	1.5	28
68	Synthesis, characterization and cytotoxic activities of the [RuCl ₂ (NO)(dppp)(L)]PF ₆ complexes. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 489-495.	1.5	27
69	NO donors cis-[Ru(bpy) ₂ (L)NO] ³⁺ and [Fe(CN) ₄ (L)NO] ⁴⁻ complexes immobilized on modified mesoporous silica spheres. <i>Polyhedron</i> , 2010, 29, 3349-3354.	1.0	13
70	Novel ruthenium complexes as potential drugs for Chagas's disease: enzyme inhibition and <i>in vitro</i> / <i>in vivo</i> trypanocidal activity. <i>British Journal of Pharmacology</i> , 2010, 160, 260-269.	2.7	76
71	On the correlation between electronic intramolecular delocalization and Au-S bonding strength of ruthenium tetraammine SAMs. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 1283-1292.	0.6	4
72	Thionicotinamide SAM on Gold: Adsorption Studies and Electroactivity. <i>Electroanalysis</i> , 2009, 21, 1081-1089.	1.5	9

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73	Synthesis and physical properties of ruthenium bipyridine complexes with TCNQ and TCNE ligands. <i>Polyhedron</i> , 2009, 28, 661-664.	1.0	7
74	Photochemical NO release from nitrosyl Rull complexes with C-bound imidazoles. <i>Inorganica Chimica Acta</i> , 2008, 361, 2929-2933.	1.2	15
75	Relaxation of rabbit corpus cavernosum smooth muscle and aortic vascular endothelium induced by new nitric oxide donor substances of the nitrosyl-ruthenium complex. <i>International Braz J Urol: Official Journal of the Brazilian Society of Urology</i> , 2008, 34, 638-647.	0.7	17
76	Synthesis, characterization and crystal structure of a novel thiocyanate "ruthenium(II) complex. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1515-1517.	1.8	6
77	Crystal structure, electrochemical and photochemical studies of the trans-[Fe(cyclam)(NO)Cl]Cl ₂ complex (cyclam=1,4,8,11-tetraazacyclotetradecane). <i>Polyhedron</i> , 2007, 26, 4653-4658.	1.0	11
78	A study of pyridinethiolate derivative complexes adsorbed on gold by surface-enhanced Raman scattering. <i>Journal of Electroanalytical Chemistry</i> , 2007, 605, 1-7.	1.9	11
79	Photophysical properties of polyacrylic acid with Ru (II) polypyridyl complexes. <i>Journal of Luminescence</i> , 2007, 126, 347-352.	1.5	1
80	Tetraammine ruthenate complexes: cationic SAMs for cytochrome c recognition. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 1594-1599.	0.6	7
81	The versatility of the 1,4-dithiane ligand towards the coordination chemistry of ruthenium-phosphine complexes. <i>Polyhedron</i> , 2006, 25, 1543-1548.	1.0	10
82	Synthesis, Characterization, and NO Release Study of the cis- and trans-[Ru(Bpy) ₂ (SO ₃)(NO)] ⁺ Complexes. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2020-2026.	1.0	43
83	Reactivity of : modulation of the release of NO by the trans-effect. <i>Inorganica Chimica Acta</i> , 2005, 358, 2883-2890.	1.2	47
84	Synthesis, characterization, and structure of a new N-nitrosamine of cyclam (1,4,8,11-tetraazacyclotetradecane). <i>Tetrahedron Letters</i> , 2005, 46, 1889-1891.	0.7	8
85	Electron transfer kinetics and mechanistic study of the thionicotinamide coordinated to the pentacyanoferrate(III)/(II) complexes: a model system for the in vitro activation of thioamides anti-tuberculosis drugs. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 368-375.	1.5	21
86	NO Release from trans-[Ru(NH ₃) ₄ L(NO)] ³⁺ Complexes Upon Reduction (L = 1-Methylimidazole or Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	0.7	12
87	A correlation study between the conformation of the 1,4-dithiane SAM on gold and its performance to assess the heterogeneous electron-transfer reactions. <i>Journal of Electroanalytical Chemistry</i> , 2004, 566, 443-449.	1.9	19
88	Characterization of a 1,4-dithiane gold self-assembled monolayer: an electrochemical sensor for the cyt-c redox process. <i>Journal of Electroanalytical Chemistry</i> , 2003, 543, 93-99.	1.9	16
89	Crystal structure, electrochemical and spectroscopic properties of the trans-K ₂ [FeCl(NO)(cyclam)]·[FeCl(NO ⁺)(cyclam)] ₂ (PF ₆) ₆ complex. <i>Dalton Transactions RSC</i> , 2002, , 1903-1906.	2.3	17
90	Release of NO by a nitrosyl complex upon activation by the mitochondrial reducing power. <i>Journal of Inorganic Biochemistry</i> , 2002, 89, 267-271.	1.5	41

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91	The influence of NO-containing ruthenium complexes on mouse hippocampal evoked potentials in vitro. <i>Life Sciences</i> , 2001, 68, 1535-1544.	2.0	37
92	Thermal isomerization of cis-[Fe(cyclam)Cl ₂]Cl·H ₂ O complex in the solid state. <i>Thermochimica Acta</i> , 2001, 376, 141-145.	1.2	8
93	The trans-labilization of nitric oxide in Rull complexes by C-bound imidazoles. <i>Inorganica Chimica Acta</i> , 2001, 312, 15-22.	1.2	56
94	A Controlled NO-Releasing Compound: Synthesis, Molecular Structure, Spectroscopy, Electrochemistry, and Chemical Reactivity of R,R,S,S-trans-[RuCl(NO)(cyclam)] ²⁺ (1,4,8,11-tetraazacyclotetradecane). <i>Inorganic Chemistry</i> , 2000, 39, 2294-2300.	1.9	138
95	The X-ray crystal structure and reactivity of trans-[RuCl ₂ (P(OC ₂ H ₅) ₃) ₄]. <i>Polyhedron</i> , 1999, 18, 979-983.	1.0	8
96	cis- and trans-nitrosyltetraammineruthenium(II). Spectral and electrochemical properties and reactivity. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 601-608.	1.1	84
97	Correlation Between the Lever Parameter and Electronic Properties of Nitrosyl Ruthenium(II) Complexes. <i>Australian Journal of Chemistry</i> , 1998, 51, 865.	0.5	23
98	UV-visible spectrum of nitrous acid in solution: pKa determination and analytical applications. <i>Analytica Chimica Acta</i> , 1993, 282, 81-85.	2.6	21
99	A Potential Visible-Light NO Releaser: Synthesis, Reactivity and Vasodilator Properties. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0
100	CHROMATOGRAPHIC INVESTIGATION OF RUTHENIUM NITROSYL COMPLEX: NO INTERCONVERSION AND REACTIONS WITH BIOLOGICAL REDUCTANTS. <i>Quimica Nova</i> , 0, , .	0.3	0