

Eduardo Henrique Silva Sousa

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.

85
papers

1,221
citations

19
h-index

31
g-index

92
ext. papers

1,473
ext. citations

4.2
avg, IF

4.23
L-index

#	Paper	IF	Citations
85	Heme-Based Gas Sensors in Nature and Their Chemical and Biotechnological Applications. <i>Biochem</i> , 2022 , 2, 43-63		1
84	A binuclear Fe(III)/quinizarin complex as a structural model for anthracycline drugs binding to iron. <i>New Journal of Chemistry</i> , 2022 , 46, 5515-5525	3.6	
83	Metal Complexes as DNA Cleavage and Antimicrobial Agents. <i>Springer Handbooks</i> , 2022 , 1051-1072	1.3	
82	Synthesis and potential vasorelaxant effect of a novel ruthenium-based nitro complex.. <i>Journal of Inorganic Biochemistry</i> , 2021 , 228, 111666	4.2	1
81	The biofilm inhibition activity of a NO donor nanosilica with enhanced antibiotics action. <i>International Journal of Pharmaceutics</i> , 2021 , 610, 121220	6.5	3
80	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	4	0
79	A bis-indazolic ruthenium(II) complex: Reactivity and biological studies on cancer cells. <i>Inorganica Chimica Acta</i> , 2021 , 516, 120125	2.7	0
78	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	3.7	4
77	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	23.2	4
76	Electrochemical, mechanistic, and DFT studies of amine derived diphosphines containing Ru(II)-cymene complexes with potent cytotoxic activity against HeLa and triple-negative breast cancer cells MDA-MB-231. <i>Dalton Transactions</i> , 2020 , 49, 16498-16514	4.3	0
75	A bioinorganic chemistry perspective on the roles of metals as drugs and targets against - a journey of opportunities. <i>Dalton Transactions</i> , 2020 , 49, 15988-16003	4.3	5
74	A divergent mode of activation of a nitrosyl iron complex with unusual antiangiogenic activity. <i>Journal of Inorganic Biochemistry</i> , 2020 , 210, 111133	4.2	4
73	Antihypertensive potential of cis-[Ru(bpy)(ImN)(NO)], a ruthenium-based nitric oxide donor. <i>Research in Veterinary Science</i> , 2020 , 130, 153-160	2.5	9
72	An unusual bidentate methionine ruthenium(II) complex: photo-uncaging and antimicrobial activity. <i>Journal of Biological Inorganic Chemistry</i> , 2020 , 25, 419-428	3.7	6
71	Mechanistic insights into the in vitro metal-promoted oxidation of (di)azine hydroxamic acids: evidence of HNO release and N,O-di(di)azinoyl hydroxylamine intermediate. <i>New Journal of Chemistry</i> , 2020 , 44, 11965-11973	3.6	2
70	Nitro-imidazole-based ruthenium complexes with antioxidant and anti-inflammatory activities. <i>Journal of Inorganic Biochemistry</i> , 2020 , 206, 111048	4.2	10
69	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	3.6	4

68	Biphosphinic ruthenium complexes as the promising antimicrobial agents. <i>New Journal of Chemistry</i> , 2020 , 44, 21318-21325	3.6	5
67	Antimicrobial activity and antibiotic synergy of a biphosphinic ruthenium complex against clinically relevant bacteria. <i>Biofouling</i> , 2020 , 36, 442-454	3.3	4
66	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	6.8	8
65	Potential therapeutic approaches for a sleeping pathogen: tuberculosis a case for bioinorganic chemistry. <i>Journal of Biological Inorganic Chemistry</i> , 2020 , 25, 685-704	3.7	5
64	Nitrate-nitrite fate and oxygen sensing in dormant Mycobacterium tuberculosis: A bioinorganic approach highlighting the importance of transition metals. <i>Coordination Chemistry Reviews</i> , 2020 , 423, 213476	23.2	4
63	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	3.7	5
62	Ascorbyl and hydroxyl radical generation mediated by a copper complex adsorbed on gold. <i>Dalton Transactions</i> , 2019 , 48, 14128-14137	4.3	7
61	Effect of Crotalus basiliscus snake venom on the redox reaction of myoglobin. <i>Journal of Biological Inorganic Chemistry</i> , 2019 , 24, 171-178	3.7	1
60	In vitro and in vivo leishmanicidal activity of a ruthenium nitrosyl complex against Leishmania (Viannia) braziliensis. <i>Acta Tropica</i> , 2019 , 192, 61-65	3.2	15
59	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	5.6	5
58	A new water-soluble ruthenium(II) carbonyl complex: cis-[Ru(bpy) ₂ (SO ₃)(CO)]. <i>Polyhedron</i> , 2019 , 167, 111-118	2.7	1
57	Escherichia coli DosC and DosP: a role of c-di-GMP in compartmentalized sensing by degradosomes. <i>Advances in Microbial Physiology</i> , 2019 , 75, 53-67	4.4	4
56	A spectroelectrochemical investigation of the heme-based sensor DevS from Mycobacterium tuberculosis: a redox versus oxygen sensor. <i>FEBS Journal</i> , 2019 , 286, 4278-4293	5.7	7
55	Sodium nitroprusside encapsulated in Silica nanoparticles as a strategy for safer nitric oxide delivery. <i>FASEB Journal</i> , 2019 , 33, 679.2	0.9	
54	Antioxidant Activity of Ruthenium Complexes Containing Nitro-imidazole Derivatives. <i>FASEB Journal</i> , 2019 , 33, 670.18	0.9	
53	Oxygen triggers signal transduction in the DevS (DosS) sensor of Mycobacterium tuberculosis by modulating the quaternary structure. <i>FEBS Journal</i> , 2019 , 286, 479-494	5.7	8
52	Thiocarbonyl-bound metallonitrosyl complexes with visible-light induced DNA cleavage and promising vasodilation activity. <i>Journal of Inorganic Biochemistry</i> , 2018 , 182, 83-91	4.2	15
51	Antimicrobial activity of cis-[Ru(bpy) ₂ (L)(L ⁺) _n] ⁿ⁺ complexes, where L = 4-(4-chlorobenzoyl)pyridine or 4-(benzoyl)pyridine and L ⁺ = Cl ⁺ or CO. <i>Polyhedron</i> , 2018 , 144, 88-94	2.7	10

50	Is IQG-607 a Potential Metallo-drug or Metallopro-Drug With a Defined Molecular Target in ? <i>Frontiers in Microbiology</i> , 2018 , 9, 880	5-7	9
49	A vanillin-based copper(II) metal complex with a DNA-mediated apoptotic activity.. <i>RSC Advances</i> , 2018 , 8, 16873-16886	3-7	11
48	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	4-2	13
47	Structural aspects and physiological implications of the hemoglobin of green iguana (Iguana iguana). <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1275-1285	7-9	
46	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	4-2	4
45	Photochemical studies of cis-[Ru(bpy)(4-bzpy)(CO)](PF) and cis-[Ru(bpy)(4-bzpy)(Cl)](PF): Blue light-induced nucleobase binding. <i>Journal of Inorganic Biochemistry</i> , 2017 , 173, 144-151	4-2	7
44	Drug discovery targeting heme-based sensors and their coupled activities. <i>Journal of Inorganic Biochemistry</i> , 2017 , 167, 12-20	4-2	17
43	Target DNA stabilizes Mycobacterium tuberculosis DevR/DosR phosphorylation by the full-length oxygen sensors DevS/DosS and DosT. <i>FEBS Journal</i> , 2017 , 284, 3954-3967	5-7	12
42	A biphosphinic ruthenium complex with potent anti-bacterial and anti-cancer activity. <i>New Journal of Chemistry</i> , 2017 , 41, 13085-13095	3-6	18
41	Haem-Based Sensors of O ₂ : Lessons and Perspectives. <i>Advances in Microbial Physiology</i> , 2017 , 71, 235-257	4-4	10
40	Aryl-Substituted Ruthenium(II) Complexes: A Strategy for Enhanced Photocleavage and Efficient DNA Binding. <i>Inorganic Chemistry</i> , 2017 , 56, 9084-9096	5-1	30
39	The potent anti-cancer activity of Dioclea lasiocarpa lectin. <i>Journal of Inorganic Biochemistry</i> , 2017 , 175, 179-189	4-2	19
38	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	2-7	19
37	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	4-2	7
36	Thiol-Activated HNO Release from a Ruthenium Antiangiogenesis Complex and HIF-1 α Inhibition for Cancer Therapy. <i>ACS Chemical Biology</i> , 2016 , 11, 2057-65	4-9	30
35	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, 20-4	2-3	8
34	Hydroxyl Radical Generation and DNA Nuclease Activity: A Mechanistic Study Based on a Surface-Immobilized Copper Thioether Clip-Phen Derivative. <i>Chemistry - A European Journal</i> , 2016 , 22, 10081-9	4-8	16
33	Non-nitric oxide based metallovasodilators: synthesis, reactivity and biological studies. <i>Dalton Transactions</i> , 2015 , 44, 13633-40	4-3	13

32	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/K(ATP) pathway. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 45, 35-42	5	21
31	On the incorporation of Rhodamine B and 2',7'-dichlorofluorescein dyes in silica: Synthesis of fluorescent nanoparticles. <i>Optical Materials</i> , 2014 , 36, 1197-1202	3.3	9
30	[Fe(CN) ₅ (isoniazid)](3-): an iron isoniazid complex with redox behavior implicated in tuberculosis therapy. <i>Journal of Inorganic Biochemistry</i> , 2014 , 140, 236-44	4.2	26
29	KinChem: A Computational Resource for Teaching and Learning Chemical Kinetics. <i>Journal of Chemical Education</i> , 2014 , 91, 2203-2205	2.4	8
28	Nitric Oxide Donors with Therapeutic Strategic in Experimental Schistosomiasis Mansonii. <i>American Journal of Immunology</i> , 2014 , 10, 225-239	0.3	2
27	Synthesis of bifunctional mesoporous silica spheres as potential adsorbent for ions in solution. <i>Chemical Engineering Journal</i> , 2013 , 214, 27-33	14.7	33
26	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, 157-65	3.9	24
25	Using Supramolecular Chemistry Strategy for Mapping Electrochemical Phenomena on the Nanoscale 2013 , 87-104		
24	Signal transduction and phosphoryl transfer by a FixL hybrid kinase with low oxygen affinity: importance of the vicinal PAS domain and receiver aspartate. <i>Biochemistry</i> , 2013 , 52, 456-65	3.2	23
23	Electrochemistry, surface plasmon resonance, and quartz crystal microbalance: an associative study on cytochrome c adsorption on pyridine tail-group monolayers on gold. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8673-80	3.4	10
22	Preparation, characterization and structure of ruthenium phosphine complexes containing non-innocent ligands. <i>Polyhedron</i> , 2012 , 31, 104-109	2.7	2
21	Isoniazid metal complex reactivity and insights for a novel anti-tuberculosis drug design. <i>Journal of Biological Inorganic Chemistry</i> , 2012 , 17, 275-83	3.7	32
20	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, 182-5	14.3	27
19	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	2.7	2
18	HellGate globin I: an acid and thermostable bacterial hemoglobin resembling mammalian neuroglobin. <i>FEBS Letters</i> , 2011 , 585, 3250-8	3.8	26
17	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, 624-9	4.2	23
16	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	1.5	4
15	NO donors cis-[Ru(bpy) ₂ (L)NO] ³⁺ and [Fe(CN) ₄ (L)NO] ⁻ complexes immobilized on modified mesoporous silica spheres. <i>Polyhedron</i> , 2010 , 29, 3349-3354	2.7	12

14	An oxygen-sensing diguanylate cyclase and phosphodiesterase couple for c-di-GMP control. <i>Biochemistry</i> , 2009 , 48, 9764-74	3.2	169
13	Soluble Guanylyl Cyclase and Its Evolutionary Relatives 2008 , 524-539		
12	Oxygen-sensing histidine-protein kinases: assays of ligand binding and turnover of response-regulator substrates. <i>Methods in Enzymology</i> , 2008 , 437, 173-89	1.7	18
11	A memory of oxygen binding explains the dose response of the heme-based sensor FixL. <i>Biochemistry</i> , 2007 , 46, 6249-57	3.2	29
10	DosT and DevS are oxygen-switched kinases in Mycobacterium tuberculosis. <i>Protein Science</i> , 2007 , 16, 1708-19	6.3	121
9	Slow-onset inhibition of 2-trans-enoyl-ACP (CoA) reductase from Mycobacterium tuberculosis by an inorganic complex. <i>Current Pharmaceutical Design</i> , 2006 , 12, 2409-24	3.3	30
8	A proximal arginine R206 participates in switching of the Bradyrhizobium japonicum FixL oxygen sensor. <i>Journal of Molecular Biology</i> , 2006 , 360, 80-9	6.5	29
7	Development of a spectrophotometric assay for cyclase activity. <i>Analytical Biochemistry</i> , 2006 , 348, 57-63	3.1	9
6	Oxygen blocks the reaction of the FixL-FixJ complex with ATP but does not influence binding of FixJ or ATP to FixL. <i>Biochemistry</i> , 2005 , 44, 15359-65	3.2	33
5	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, 368-75	4.2	18
4	An inorganic iron complex that inhibits wild-type and an isoniazid-resistant mutant 2-trans-enoyl-ACP (CoA) reductase from Mycobacterium tuberculosis. <i>Chemical Communications</i> , 2004 , 312-3	5.8	51
3	Crystal structure, electrochemical and spectroscopic properties of the trans-K{[FeCl(NO)(cyclam)][FeCl(NO+)(cyclam)] ₂ }(PF ₆) ₆ complex. <i>Dalton Transactions RSC</i> , 2002 , 1903-1906		17
2	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	2.9	8
1	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> ,	2.3	2