Eduardo Henrique Silva Sousa

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85 1,221 19 31 g-index

92 1,473 4.2 4.23 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
85	An oxygen-sensing diguanylate cyclase and phosphodiesterase couple for c-di-GMP control. <i>Biochemistry</i> , 2009 , 48, 9764-74	3.2	169
84	DosT and DevS are oxygen-switched kinases in Mycobacterium tuberculosis. <i>Protein Science</i> , 2007 , 16, 1708-19	6.3	121
83	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
82	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
81	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
80	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
79	Thiol-Activated HNO Release from a Ruthenium Antiangiogenesis Complex and HIF-1[Inhibition for Cancer Therapy. <i>ACS Chemical Biology</i> , 2016 , 11, 2057-65	4.9	30
78	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
77	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
76	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
75	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
74	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
73	[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
72	Hell@ Gate globin I: an acid and thermostable bacterial hemoglobin resembling mammalian neuroglobin. <i>FEBS Letters</i> , 2011 , 585, 3250-8	3.8	26
71	The ruthenium NO donor, [Ru(bpy)2(NO)SO3](PF6), 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
70	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
69	Mechanism and biological implications of the NO release of cis-[Ru(bpy)2L(NO)](n+) complexes: a key role of physiological thiols. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 624-9	4.2	23

(2017-2015)

68	The nitric oxide donor cis-[Ru(bpy)2(SO3)NO](PF6) increases gastric mucosa protection in miceinvolvement of the soluble guanylate cyclase/K(ATP) pathway. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 45, 35-42	5	21	
67	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	
66	The potent anti-cancer activity of Dioclea lasiocarpa lectin. <i>Journal of Inorganic Biochemistry</i> , 2017 , 175, 179-189	4.2	19	
65	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	
64	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	
63	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	
62	Drug discovery targeting heme-based sensors and their coupled activities. <i>Journal of Inorganic Biochemistry</i> , 2017 , 167, 12-20	4.2	17	
61	Crystal structure, electrochemical and spectroscopic properties of the trans-K{[FeCl(NO0)(cyclam)][[FeCl(NO+)(cyclam)]2}(PF6)6 complex. <i>Dalton Transactions RSC</i> , 2002 , 1903-	1906	17	
60	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	
59	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	
58	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	
57	Non-nitric oxide based metallovasodilators: synthesis, reactivity and biological studies. <i>Dalton Transactions</i> , 2015 , 44, 13633-40	4.3	13	
56	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	
55	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	
54	NO donors cis-[Ru(bpy)2(L)NO]3+ and [Fe(CN)4(L)NO]Itomplexes immobilized on modified mesoporous silica spheres. <i>Polyhedron</i> , 2010 , 29, 3349-3354	2.7	12	
53	A vanillin-based copper(ii) metal complex with a DNA-mediated apoptotic activity <i>RSC Advances</i> , 2018 , 8, 16873-16886	3.7	11	
52	Nitro-imidazole-based ruthenium complexes with antioxidant and anti-inflammatory activities. Journal of Inorganic Biochemistry, 2020 , 206, 111048	4.2	10	
51	Haem-Based Sensors of O: Lessons and Perspectives. <i>Advances in Microbial Physiology</i> , 2017 , 71, 235-257.	7 4-4	10	

50	Antimicrobial activity of cis-[Ru(bpy)2(L)(L?)]n+ complexes, where $L = 4$ -(4-chlorobenzoyl)pyridine or 4-(benzoyl)pyridine and $L? = Cl[br\ CO.\ Polyhedron, 2018, 144, 88-94]$	2.7	10
49	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
48	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
47	Is IQG-607 a Potential Metallodrug or Metallopro-Drug With a Defined Molecular Target in ?. <i>Frontiers in Microbiology</i> , 2018 , 9, 880	5.7	9
46	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
45	Development of a spectrophotometric assay for cyclase activity. <i>Analytical Biochemistry</i> , 2006 , 348, 57-	63.1	9
44	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
43	KinChem: A Computational Resource for Teaching and Learning Chemical Kinetics. <i>Journal of Chemical Education</i> , 2014 , 91, 2203-2205	2.4	8
42	Thermal isomerization of cis-[Fe(cyclam)Cl2]Cl[H2O complex in the solid state. <i>Thermochimica Acta</i> , 2001 , 376, 141-145	2.9	8
41	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
40	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
39	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
38	Ascorbyl and hydroxyl radical generation mediated by a copper complex adsorbed on gold. <i>Dalton Transactions</i> , 2019 , 48, 14128-14137	4.3	7
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	A spectroelectrochemical investigation of the heme-based sensor DevSIfrom MycobacteriumItuberculosis: a redox versus oxygen sensor. <i>FEBS Journal</i> , 2019 , 286, 4278-4293	5.7	7
35	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
34	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
33	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

32	Biphosphinic ruthenium complexes as the promising antimicrobial agents. <i>New Journal of Chemistry</i> , 2020 , 44, 21318-21325	3.6	5
31	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
30	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
29	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
28	A divergent mode of activation of a nitrosyl iron complex with unusual antiangiogenic activity. Journal of Inorganic Biochemistry, 2020 , 210, 111133	4.2	4
27	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
26	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
25	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
24	Antimicrobial activity and antibiotic synergy of a biphosphinic ruthenium complex against clinically relevant bacteria. <i>Biofouling</i> , 2020 , 36, 442-454	3.3	4
23	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
22	Anti-asthmatic effect of nitric oxide metallo-donor FOR811A [cis-[Ru(bpy)2(2-MIM)(NO)](PF6)3] in the respiratory mechanics of Swiss mice. <i>PLoS ONE</i> , 2021 , 16, e0248394	3.7	4
21	Bioinorganic systems responsive to the diatomic gases O2, NO, and CO: From biological sensors to therapy. <i>Coordination Chemistry Reviews</i> , 2021 , 445, 214096	23.2	4
20	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
19	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
18	Preparation, characterization and structure of ruthenium phosphine complexes containing non-innocent ligands. <i>Polyhedron</i> , 2012 , 31, 104-109	2.7	2
17	Nitric Oxide Donors with Therapeutic Strategic in Experimental Schistossomiasis Mansoni. <i>American Journal of Immunology</i> , 2014 , 10, 225-239	0.3	2
16	Asymmetric heterobimetallic mixed-valence complex trans-[(SO3)Co(cyclam)(NCS)Ru(NH3)4(NCS)](BF4): Synthesis and characterization. <i>Polyhedron</i> , 2011 , 30, 2083-2089	2.7	2
15	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

14	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
13	A new water-soluble ruthenium(II) carbonyl complex: cis-[Ru(bpy)2(SO3)(CO)]. <i>Polyhedron</i> , 2019 , 167, 111-118	2.7	1
12	Heme-Based Gas Sensors in Nature and Their Chemical and Biotechnological Applications. <i>Biochem</i> , 2022 , 2, 43-63		1
11	Synthesis and potential vasorelaxant effect of a novel ruthenium-based nitro complex <i>Journal of Inorganic Biochemistry</i> , 2021 , 228, 111666	4.2	1
10	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	О
9	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	O
8	A bis-indazolic ruthenium(II) complex: Reactivity and biological studies on cancer cells. <i>Inorganica Chimica Acta</i> , 2021 , 516, 120125	2.7	О
7	Using Supramolecular Chemistry Strategy for Mapping Electrochemical Phenomena on the Nanoscale 2013 , 87-104		
6	Soluble Guanylyl Cyclase and Its Evolutionary Relatives 2008 , 524-539		
5	Sodium nitroprusside encapsulated in Silica nanoparticles as a strategy for safer nitric oxide delivery. <i>FASEB Journal</i> , 2019 , 33, 679.2	0.9	
4	Antioxidant Activity of Ruthenium Complexes Containing Nitro-imidazole Derivatives. <i>FASEB Journal</i> , 2019 , 33, 670.18	0.9	
3	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	
2	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	
1	Metal Complexes as DNA Cleavage and Antimicrobial Agents. Springer Handbooks, 2022, 1051-1072	1.3	