

# Iseli Lourenço Nantes-Cardoso

## List of Publications by Year in descending order

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107  
papers

1,946  
citations

257450

24  
h-index

315739

38  
g-index

119  
all docs

119  
docs citations

119  
times ranked

2451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cathepsin B Activity Regulation. <i>Journal of Biological Chemistry</i> , 2001, 276, 944-951.	3.4	169
2	pH-dependent Interaction of Cytochrome c with Mitochondrial Mimetic Membranes. <i>Journal of Biological Chemistry</i> , 2005, 280, 34709-34717.	3.4	102
3	Effect of Heme Iron Valence State on the Conformation of Cytochrome c and Its Association with Membrane Interfaces. <i>Journal of Biological Chemistry</i> , 2001, 276, 153-158.	3.4	95
4	<i>Baccharis dracunculifolia</i> , the main source of green propolis, exhibits potent antioxidant activity and prevents oxidative mitochondrial damage. <i>Food and Chemical Toxicology</i> , 2012, 50, 1091-1097.	3.6	78
5	Changes in the Spin State and Reactivity of Cytochrome c Induced by Photochemically Generated Singlet Oxygen and Free Radicals. <i>Journal of Biological Chemistry</i> , 2004, 279, 39214-39222.	3.4	59
6	Low temperature and aging-promoted expression of PUMP in potato tuber mitochondria. <i>FEBS Letters</i> , 1999, 457, 103-106.	2.8	55
7	Cathepsin X binds to cell surface heparan sulfate proteoglycans. <i>Archives of Biochemistry and Biophysics</i> , 2005, 436, 323-332.	3.0	52
8	Cysteine Proteinase Activity Regulation. <i>Journal of Biological Chemistry</i> , 1999, 274, 30433-30438.	3.4	51
9	Biological Oxidative Mechanisms for Degradation of Poly(lactic acid) Blended with Thermoplastic Starch. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2756-2766.	6.7	50
10	Cytotoxicity of phenothiazine derivatives associated with mitochondrial dysfunction: A structure-activity investigation. <i>Toxicology</i> , 2015, 330, 44-54.	4.2	46
11	Spectroscopic, Structural, and Functional Characterization of the Alternative Low-Spin State of Horse Heart Cytochrome c. <i>Bioophysical Journal</i> , 2008, 94, 4066-4077.	0.5	44
12	Modulation of cytochrome c spin states by lipid acyl chains: a continuous-wave electron paramagnetic resonance (CW-EPR) study of haem iron. <i>Biochemical Journal</i> , 2003, 370, 671-678.	3.7	43
13	Plant uncoupling mitochondrial protein activity in mitochondria isolated from tomatoes at different stages of ripening. <i>Journal of Bioenergetics and Biomembranes</i> , 1999, 31, 527-533.	2.3	40
14	Photochemically Generated Stable Cation Radical of Phenothiazine Aggregates in Mildly Acid Buffered Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12257-12265.	2.6	35
15	Protective Role of Mitochondrial Unsaturated Lipids on the Preservation of the Apoptotic Ability of Cytochrome c Exposed to Singlet Oxygen. <i>Journal of Biological Chemistry</i> , 2007, 282, 25577-25587.	3.4	35
16	Palladacycles catalyse the oxidation of critical thiols of the mitochondrial membrane proteins and lead to mitochondrial permeabilization and cytochrome c release associated with apoptosis. <i>Biochemical Journal</i> , 2009, 417, 247-256.	3.7	35
17	On the mechanisms of phenothiazine-induced mitochondrial permeability transition: Thiol oxidation, strict Ca <sup>2+</sup> dependence, and cyt c release. <i>Biochemical Pharmacology</i> , 2010, 80, 1284-1295.	4.4	34
18	Liposome effect on the cytochrome c-catalyzed peroxidation of carbonyl substrates to triplet species. <i>Free Radical Biology and Medicine</i> , 1998, 25, 546-553.	2.9	32

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19	Cytochrome c-promoted cardiolipin oxidation generates singlet molecular oxygen. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1536-1546.	2.9	32
20	Modifications in heme iron of free and vesicle bound cytochrome c by tert-butyl hydroperoxide: a magnetic circular dichroism and electron paramagnetic resonance investigation. <i>Free Radical Biology and Medicine</i> , 2000, 28, 786-796.	2.9	31
21	Organotellurane-Promoted Mitochondrial Permeability Transition Concomitant with Membrane Lipid Protection against Oxidation. <i>Chemical Research in Toxicology</i> , 2007, 20, 1453-1461.	3.3	30
22	pH-Sensitive Binding of Cytochrome c to the Inner Mitochondrial Membrane. Implications for the Participation of the Protein in Cell Respiration and Apoptosis. <i>Biochemistry</i> , 2009, 48, 8335-8342.	2.5	28
23	Nanostructures for peroxidases. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 50.	3.5	26
24	CHEMILUMINESCENT DIPHENYLACETALDEHYDE OXIDATION BY MITOCHONDRIA IS PROMOTED BY CYTOCHROMES and LEADS TO OXIDATIVE INJURY OF THE ORGANELLE. <i>Photochemistry and Photobiology</i> , 1995, 62, 522-527.	2.5	25
25	Not Only Oxidation of Cardiolipin Affects the Affinity of Cytochrome c for Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11863-11872.	2.6	25
26	pH-Dependent Synthesis of Anisotropic Gold Nanostructures by Bioinspired Cysteine-Containing Peptides. <i>ACS Omega</i> , 2016, 1, 424-434.	3.5	25
27	Effects of Gold Salt Speciation and Structure of Human and Bovine Serum Albumins on the Synthesis and Stability of Gold Nanostructures. <i>Frontiers in Chemistry</i> , 2016, 4, 13.	3.6	22
28	Natural Persulfate Activation for Anthracene Remediation in Tropical Environments. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	21
29	Highly Stable Magnetite Modified with Chitosan, Ferrocene and Enzyme for Application in Magneto-Switchable Bioelectrocatalysis. <i>Journal of the Brazilian Chemical Society</i> , 2013, 24, 285-294.	0.6	20
30	Interaction of heparin with internally quenched fluorogenic peptides derived from heparin-binding consensus sequences, kallistatin and anti-thrombin III. <i>Biochemical Journal</i> , 2002, 366, 435-446.	3.7	18
31	Bactericidal activity of cotton fabrics functionalized by ZnO and Cu via microwave. <i>Cellulose</i> , 2021, 28, 8153-8175.	4.9	18
32	Molecular interactions and structure of a supramolecular arrangement of glucose oxidase and palladium nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12155.	2.8	17
33	Mitochondrial permeability transition induced by chemically generated singlet oxygen. <i>Journal of Bioenergetics and Biomembranes</i> , 2002, 34, 157-163.	2.3	16
34	Characterization of hydrophobic interaction and antioxidant properties of the phenothiazine nucleus in mitochondrial and model membranes. <i>Free Radical Research</i> , 2010, 44, 1054-1063.	3.3	16
35	Photobiosynthesis of stable and functional silver/silver chloride nanoparticles with hydrolytic activity using hyperthermophilic $\beta$ -glucosidases with industrial potential. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 84-91.	7.5	16
36	Silk fibroin hydrogels for potential applications in photodynamic therapy. <i>Biopolymers</i> , 2018, 110, e23245.	2.4	16

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37	Promising Nanostructured Materials against Enveloped Virus. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20200718.	0.8	16
38	Peroxidase Catalytic Cycle of MCM-41-Entrapped Microperoxidase-11 as a Mechanism for Phenol Oxidation. Journal of Nanoscience and Nanotechnology, 2007, 7, 3643-3652.	0.9	15
39	Ferricytochrome c Directly Oxidizes Aminoacetone to Methylglyoxal, a Catabolite Accumulated in Carbonyl Stress. PLoS ONE, 2013, 8, e57790.	2.5	15
40	Diphenylacetaldehyde-generated excited states promote damage to isolated rat liver mitochondrial DNA, phospholipids, and proteins. Free Radical Biology and Medicine, 1999, 27, 744-751.	2.9	14
41	Specific effects of reactive thiol drugs on mitochondrial bioenergetics. Journal of Bioenergetics and Biomembranes, 2011, 43, 11-18.	2.3	14
42	Towards the mechanisms involved in the antioxidant action of Mn(III) [meso-tetrakis(4-N-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.3	14
43	Nucleotide conformational change induced by cationic bilayers. Archives of Biochemistry and Biophysics, 2003, 416, 25-30.	3.0	13
44	Biological effects of anionic meso-tetrakis (para-sulfonatophenyl) porphyrins modulated by the metal center. Studies in rat liver mitochondria. Chemico-Biological Interactions, 2009, 181, 400-408.	4.0	13
45	Cytochrome c Reacts with Cholesterol Hydroperoxides To Produce Lipid- and Protein-Derived Radicals. Biochemistry, 2015, 54, 2841-2850.	2.5	13
46	Protonation of two adjacent tyrosine residues influences the reduction of cytochrome c by diphenylacetaldehyde: a possible mechanism to select the reducer agent of heme iron. Free Radical Biology and Medicine, 2004, 36, 802-810.	2.9	12
47	Photoinduced electron transfer in silica-supported self-assembled thin films containing a 1,4,5,8-naphthalenetetracarboxylic diimide and cytochrome c. Journal of Materials Chemistry, 2004, 14, 54.	6.7	12
48	Low spin states of microperoxidases produced by inter- and intra-peptide chain sixth ligands: Effect of pH and the oligopeptide type. Journal of Inorganic Biochemistry, 2006, 100, 226-238.	3.5	12
49	Light-Driven Horseradish Peroxidase Cycle by Using Photo-activated Methylene Blue as the Reducing Agent. Photochemistry and Photobiology, 2007, 83, 1254-1262.	2.5	12
50	Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted by peroxynitrite and free radicals. Free Radical Biology and Medicine, 2009, 47, 841-849.	2.9	12
51	Photo-induced electron transfer in supramolecular materials of titania nanostructures and cytochrome c. RSC Advances, 2012, 2, 7417.	3.6	11
52	Covalent Binding and Anchoring of Cytochrome c to Mitochondrial Mimetic Membranes Promoted by Cholesterol Carboxyaldehyde. Chemical Research in Toxicology, 2013, 26, 1536-1544.	3.3	11
53	Redox modulation of thimet oligopeptidase activity by hydrogen peroxide. FEBS Open Bio, 2017, 7, 1037-1050.	2.3	11
54	Charge separation of photosensitized phenothiazines for applications in catalysis and nanotechnology. Dyes and Pigments, 2020, 177, 108314.	3.7	11

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55	Effects of transmembrane potential and pH gradient on the cytochrome c-promoted fusion of mitochondrial mimetic membranes. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 421-430.	2.3	10
56	Thiosemicarbazone-Substituted Acetophenone Derivatives Promote the Loss of Mitochondrial $\gamma$ -L-Glutamyl-L-Proline and GSH Depletion, and Death in K562 Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-15.	4.0	10
57	Magnetoliposomes as model for signal transmission. <i>Royal Society Open Science</i> , 2019, 6, 181108.	2.4	10
58	Collagenase Activity of Bromelain Immobilized at Gold Nanoparticle Interfaces for Therapeutic Applications. <i>Pharmaceutics</i> , 2021, 13, 1143.	4.5	10
59	Photoinduced electron transfer between cytochrome c and a novel 1,4,5,8-naphthalenetetracarboxylic diimide with amphiphilic character. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 79, 1-9.	3.8	9
60	Reaction route control by microperoxidase-9/CTAB micelle ratios. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1963.	2.8	9
61	Photodamage in a Mitochondrial Membrane Model Modulated by the Topology of Cationic and Anionic Meso-Tetrakis Porphyrin Free Bases. <i>Photochemistry and Photobiology</i> , 2014, 90, 596-608.	2.5	9
62	Cardiolipin Structure and Oxidation Are Affected by Ca <sup>2+</sup> at the Interface of Lipid Bilayers. <i>Frontiers in Chemistry</i> , 2020, 7, 930.	3.6	9
63	Intermediate Tyrosyl Radical and Amyloid Structure in Peroxide-Activated Cytochrome c. <i>PLoS ONE</i> , 2015, 10, e0136554.	2.5	9
64	Microperoxidase-8 Associated to CTAB Micelles: A New Catalyst with Peroxidase Activity. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11124-11132.	2.6	8
65	Oxidative/Nitrative Mechanism of Molsidomine Mitotoxicity Assayed by the Cytochrome c Reaction with SIN-1 in Models of Biological Membranes. <i>Chemical Research in Toxicology</i> , 2020, 33, 2775-2784.	3.3	8
66	Virucidal, photocatalytic and chiro-magnetic cobalt oxide quantum dots. <i>Applied Surface Science</i> , 2022, 576, 151847.	6.1	8
67	UV-Light Effects on Cytochrome C Modulated by the Aggregation State of Phenothiazines. <i>PLoS ONE</i> , 2013, 8, e76857.	2.5	7
68	Dye photodegradation employing mesoporous organosilicas functionalized with 1,8-naphthalimides as heterogeneous catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 316-325.	3.9	7
69	Rapid Synthesis via Green Route of Plasmonic Protein-Coated Silver/Silver Chloride Nanoparticles with Controlled Contents of Metallic Silver and Application for Dye Remediation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2812-2818.	3.7	7
70	Bacterial Photoinactivation Using PLGA Electrospun Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31406-31417.	8.0	7
71	Study of Respiratory Cytochromes in Liposomes. <i>Methods in Molecular Biology</i> , 2010, 606, 147-165.	0.9	7
72	Proteins and Peptides at the Interfaces of Nanostructures. <i>Anais Da Academia Brasileira De Ciencias</i> , 2019, 91, e20181236.	0.8	7

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73	Tris(Bipyridine) Ruthenium(II): An Efficient Detector of Excited Species Generated by Chemiluminescent Processes. <i>Photochemistry and Photobiology</i> , 1996, 63, 697-701.	2.5	6
74	Inhibition of cytoplasmic p53 differentially modulates Ca <sup>2+</sup> signaling and cellular viability in young and aged striata. <i>Experimental Gerontology</i> , 2014, 58, 120-127.	2.8	6
75	Fast One-Pot Photosynthesis of Plasmonic Protein-Coated Silver/Silver Bromide Nanoparticles with Efficient Photocatalytic Performance. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2056-2062.	3.7	6
76	Nanostructured Hematite Decorated with Gold Nanoparticles for Functionalization and Biocompatibility. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900589.	1.8	6
77	Disclosing the hidden presence of Ti <sup>3+</sup> ions in different TiO <sub>2</sub> crystal structures synthesized at low temperature and photocatalytic evaluation by methylene blue photobleaching. <i>Journal of Materials Research</i> , 2021, 36, 3353-3365.	2.6	6
78	Synthesis of bioluminescent gold nanoparticle-luciferase hybrid systems for technological applications. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1439-1453.	2.9	6
79	Interaction of Fe <sup>3+</sup> -meso-tetrakis (2,6-dichloro-3-sulfonatophenyl) porphyrin with cationic bilayers: magnetic switching of the porphyrin and magnetic induction at the interface. <i>Theoretical Chemistry Accounts</i> , 2011, 130, 829-837.	1.4	5
80	Effects of Trichlorotelluro-dynones on Mitochondrial Bioenergetics and Their Relationship to the Reactivity with Protein Thiols. <i>Chemical Research in Toxicology</i> , 2015, 28, 1167-1175.	3.3	5
81	Ultrafast fabrication of thermally stable protein-coated silver iodide nanoparticles for solid-state superionic conductors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 47-54.	5.0	5
82	Increased Stability of Oligopeptidases Immobilized on Gold Nanoparticles. <i>Catalysts</i> , 2020, 10, 78.	3.5	5
83	Recycling of the High Valence States of Heme Proteins by Cysteine Residues of Thimet-Oligopeptidase. <i>PLoS ONE</i> , 2013, 8, e79102.	2.5	5
84	Structure and peroxidase activity of ferric <i>Streptomyces clavuligerus</i> orf10-encoded protein P450CLA: UV-visible, CD, MCD and EPR spectroscopic characterization. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 913-920.	0.6	4
85	Technological Applications of Porphyrins and Related Compounds: Spintronics and Micro-/Nanomotors. , 0, , .		4
86	Effect of the protein structure and heme iron coordination sphere on the long-range electron transfer from hematite and zinc oxide nanostructures to cytochrome c. <i>International Journal of Nanotechnology</i> , 2020, 17, 42.	0.2	4
87	Photochemical Reduction of Cytochrome c by a 1,4,5,8-Naphthalenediimide Radical Anion $\hat{A}^{\cdot-}$ . <i>Photochemistry and Photobiology</i> , 2004, 80, 518.	2.5	4
88	Incorporation of Respiratory Cytochromes in Liposomes: An Efficient Strategy to Study the Respiratory Chain. <i>Journal of Liposome Research</i> , 2008, 18, 175-194.	3.3	3
89	Nano-Sized Silver Colloids Produced and Stabilized by Amino-Functionalized Polymers: Polymer Structure-Nanoparticle Features and Polymer StructureGrowth Kinetics Relationships. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	3
90	Binding of phenothiazines into allosteric hydrophobic pocket of human thioredoxin 1. <i>European Biophysics Journal</i> , 2016, 45, 279-286.	2.2	3

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91	Structure and Catalysis of Fe(III) and Cu(II) Microperoxidase-11 Interacting with the Positively Charged Interfaces of Lipids. <i>Molecules</i> , 2017, 22, 1212.	3.8	3
92	Nanostructured Hematite Decorated with Gold Nanoparticles for Functionalization and Biocompatibility. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2070021.	1.8	3
93	A novel tool to facilitate the learning of thermodynamic principles by undergraduate students of the biological area. <i>Biochemistry and Molecular Biology Education</i> , 2009, 37, 271-278.	1.2	2
94	Photo-induced Electron Transfer from Hematite and Zinc Oxide Nanostructures to Cytochrome C: Systems Applicable to Spintronics. , 2019, , .		2
95	Photodegradation of Ciprofloxacin-Zinc Complexes Produced at the Interface of ZnO and Cu-Doped ZnO Crystals. <i>Materials Research</i> , 2021, 24, .	1.3	2
96	Stable Photoinduced Charge Separation in Nanostructured Films Containing a 1,4,5,8-Naphthalenetetracarboxylic Diimide and Cytochrome c. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2338-2343.	0.9	1
97	A novel tool to facilitate the learning of buffering mechanism by undergraduate students of the biological area. <i>Biochemistry and Molecular Biology Education</i> , 2008, 36, 189-195.	1.2	1
98	Oxidative Damage to Cytochrome c Induced by Aminoacetone. <i>Free Radical Biology and Medicine</i> , 2010, 49, S171.	2.9	1
99	The Nanoparticle Photogenerated by Association of Phenothiazine Nucleus to Poly(ethylene glycol) Protects Photodamage in Mitochondrial Membrane Unsaturated Lipids. <i>Free Radical Biology and Medicine</i> , 2010, 49, S180.	2.9	1
100	TECNOLOGIA E CULTURA NO ENSINO DE QUÍMICA: UM ENFOQUE MULTIDISCIPLINAR SOBRE O USO DE VÍDEOS EM SALA DE AULA / TECHNOLOGY AND CULTURE IN CHEMISTRY TEACHING: A MULTIDISCIPLINARY FOCUS ON THE USE OF VIDEO IN THE CLASSROOM. <i>Brazilian Journal of Development</i> , 2021, 7, 12454-12474.	0.1	1
101	Antioxidant cytochrome c-like activity of para-Mn(III)TMPyP. <i>Biochimie</i> , 2021, 184, 116-124.	2.6	1
102	Conversion of ferritin ferrihydrite core to magnetite by gold ions binding and the derived nanoparticle formation. <i>Journal of Nanostructure in Chemistry</i> , 0, , 1.	9.1	1
103	Microperoxidase-9 cycle in the presence of cetyltrimethylammonium bromide micelles: tert-butyl hydroperoxide as both an oxidizing and a reducing agent. , 2004, , 193-198.		0
104	Cytochrome c modifications promoted by cholesterol hydroperoxides and aldehydes. <i>Chemistry and Physics of Lipids</i> , 2011, 164, S44.	3.2	0
105	Propriedades Fotofísicas do Azul de Metileno Aplicadas para o Ensino de Espectroscopia UV-Visível como Ferramenta para Análise Qualitativa em Bioquímica. <i>Journal of Biochemistry Education</i> , 0, 15, 21.	0.0	0
106	Duplo Benefício Ambiental pela Remoção de Corantes Fotosensibilizadores da Água com Uso de Resíduo Sólido Particulado. <i>Revista Materia</i> , 2019, 24, .	0.2	0
107	ESTRATÉGIA EXPERIMENTAL PARA ANÁLISE ESPECTROSCÓPICA DE ESTADOS AGREGADOS DE CORANTES. , 0, , 43-59.		0