

# Isabel Bento

## List of Publications by Year in descending order

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47  
papers

2,169  
citations

257450  
24  
h-index

223800  
46  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3450  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. <i>Science</i> , 2021, 372, 642-646.	12.6	240
2	P13, the EMBL macromolecular crystallography beamline at the low-emittance PETRA III ring for high- and low-energy phasing with variable beam focusing. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 323-332.	2.4	155
3	Perturbations of the T1 copper site in the CotA laccase from <i>Bacillus subtilis</i> : structural, biochemical, enzymatic and stability studies. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 514-526.	2.6	154
4	Dioxygen reduction by multi-copper oxidases; a structural perspective. <i>Dalton Transactions</i> , 2005, , 3507.	3.3	145
5	Ceruloplasmin revisited: structural and functional roles of various metal cation-binding sites. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 240-248.	2.5	108
6	Copper-Catalyzed Regioselective Intramolecular Oxidative C-H Functionalization of Tertiary Amines: An Efficient Synthesis of Dihydro-1,3-Oxazines. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9791-9795.	13.8	105
7	Condensed phase behaviour of ionic liquid-benzene mixtures: congruent melting of a [emim][NTf2]-C <sub>6</sub> H <sub>6</sub> inclusion crystal. <i>Chemical Communications</i> , 2006, , 2445-2447.	4.1	100
8	Reduction of dioxygen by enzymes containing copper. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 539-547.	2.6	85
9	Crystal Structure of Cardosin A, a Glycosylated and Arg-Gly-Asp-containing Aspartic Proteinase from the Flowers of <i>Cynara cardunculus</i> L.. <i>Journal of Biological Chemistry</i> , 1999, 274, 27694-27701.	3.4	82
10	Generation of Carbon Monoxide Releasing Molecules (CO-RMs) as Drug Candidates for the Treatment of Acute Liver Injury: Targeting of CO-RMs to the Liver. <i>Organometallics</i> , 2012, 31, 5810-5822.	2.3	78
11	Mechanisms underlying dioxygen reduction in laccases. Structural and modelling studies focusing on proton transfer. <i>BMC Structural Biology</i> , 2010, 10, 28.	2.3	72
12	Proximal mutations at the type 1 copper site of CotA laccase: spectroscopic, redox, kinetic and structural characterization of I494A and L386A mutants. <i>Biochemical Journal</i> , 2008, 412, 339-346.	3.7	66
13	Copper(II) Complexes of Phenanthroline and Histidine Containing Ligands: Synthesis, Characterization and Evaluation of their DNA Cleavage and Cytotoxic Activity. <i>Inorganic Chemistry</i> , 2016, 55, 11801-11814.	4.0	66
14	Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5263.	4.1	63
15	The Glycosylation of the Aspartic Proteinases from Barley ( <i>Hordeum Vulgare</i> L.) and Cardoon ( <i>Cynara</i> ) Tj ETQq1 1 0,784314 rgBT /Overl	0.2	56
16	The role of Glu498 in the dioxygen reactivity of CotA-laccase from <i>Bacillus subtilis</i> . <i>Dalton Transactions</i> , 2010, 39, 2875.	3.3	49
17	X-ray structural studies of the fungal laccase from <i>Cerrena maxima</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 963-973.	2.6	47
18	New evidence for the role of calcium in the glycosidase reaction of GH43 arabinanases. <i>FEBS Journal</i> , 2010, 277, 4562-4574.	4.7	41

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19	Conformational Component in the Coupled Transfer of Multiple Electrons and Protons in a Monomeric Tetraheme Cytochrome. <i>Journal of Biological Chemistry</i> , 2001, 276, 44044-44051.	3.4	39
20	Crystal structure of the multicopper oxidase from the pathogenic bacterium <i>Campylobacter jejuni</i> CGUG11284: characterization of a metallo-oxidase. <i>Metallomics</i> , 2012, 4, 37-47.	2.4	36
21	Synthesis and Structural Characterization of 1- and 2-Substituted Indazoles: Ester and Carboxylic Acid Derivatives. <i>Molecules</i> , 2006, 11, 867-889.	3.8	31
22	Co-regulation of the transcription controlling ATF2 phosphoswitch by JNK and p38. <i>Nature Communications</i> , 2020, 11, 5769.	12.8	30
23	The role of Asp116 in the reductive cleavage of dioxygen to water in CotA laccase: assistance during the proton-transfer mechanism. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 186-193.	2.5	29
24	Purification, crystallization and preliminary X-ray study of the fungal laccase from <i>Cerrena maxima</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 954-957.	0.7	27
25	Redox-Bohr and Other Cooperativity Effects in the Nine-heme Cytochrome c from <i>Desulfovibrio desulfuricans</i> ATCC 27774. <i>Journal of Biological Chemistry</i> , 2003, 278, 36455-36469.	3.4	25
26	Molecular basis for redox-Bohr and cooperative effects in cytochrome c3 from <i>Desulfovibrio desulfuricans</i> ATCC 27774: Crystallographic and modeling studies of oxidized and reduced high-resolution structures at pH 7.6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 54, 135-152.	2.6	20
27	The crystal structure of <i>Pseudomonas</i> $\Delta$ putida azoreductase - the active site revisited. <i>FEBS Journal</i> , 2013, 280, 6643-6657.	4.7	20
28	Copper(II) and Gallium(III) Complexes of <i>trans</i> -Bis(2-hydroxybenzyl) Cyclen Derivatives: Absence of a Cross-Bridge Proves Surprisingly More Favorable. <i>Inorganic Chemistry</i> , 2014, 53, 4371-4386.	4.0	20
29	Endo- $\beta$ -D-1,4-mannanase from <i>Chrysonilia sitophila</i> displays a novel loop arrangement for substrate selectivity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1468-1478.	2.5	19
30	Three-dimensional structure of laccase from <i>Coriolus zonatus</i> at 2.6 Å... resolution. <i>Crystallography Reports</i> , 2006, 51, 817-823.	0.6	15
31	The removal of a disulfide bridge in CotA-laccase changes the slower motion dynamics involved in copper binding but has no effect on the thermodynamic stability. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 641-651.	2.6	14
32	CH $\pi$ - $\pi$ Interactions Promote the Conversion of Hydroxypyruvate in a Class II Pyruvate Aldolase. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2649-2658.	4.3	13
33	A non-catalytic herpesviral protein reconfigures ERK-RSK signaling by targeting kinase docking systems in the host. <i>Nature Communications</i> , 2022, 13, 472.	12.8	13
34	The effect of specific modifications of the amine ligands on the solubility, stability, CO release to myoglobin and whole blood, cell toxicity and haemolytic index of [Mo(CO) <sub>4</sub> (NR <sub>3</sub> ) <sub>2</sub> ] complexes. <i>Journal of Organometallic Chemistry</i> , 2014, 760, 89-100.	1.8	9
35	The Aza-Wharton Reaction: Syntheses of Cyclic Allylic Amines and Vicinal Hydroxyamines from the Respective Acylaziridines. <i>Journal of Organic Chemistry</i> , 2015, 80, 3067-3074.	3.2	9
36	Artificial Fusion of mCherry Enhances Trehalose Transferase Solubility and Stability. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	9

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37	Homogeneously N-glycosylated proteins derived from the GlycoDelete HEK293 cell line enable diffraction-quality crystallogenesis. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 1244-1255.	2.3	8
38	Crystallization and preliminary X-ray diffraction analysis of the azoreductase PpAzoR from <i>Pseudomonas putida</i> MET94. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 121-123.	0.7	7
39	Crystallographic evidence for dioxygen interactions with iron proteins. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 429-442.	2.6	6
40	Two Homologous Enzymes of the GalU Family in <i>Rhodococcus opacus</i> 1CP: RoGalU1 and RoGalU2. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5809.	4.1	5
41	Immobilization of the Highly Active UDP-Glucose Pyrophosphorylase From <i>Thermocrispum agreste</i> Provides a Highly Efficient Biocatalyst for the Production of UDP-Glucose. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 740.	4.1	5
42	Identification of molecular basis that underlie enzymatic specificity of AzoRo from <i>Rhodococcus opacus</i> 1CP: A potential NADH:quinone oxidoreductase. <i>Archives of Biochemistry and Biophysics</i> , 2022, 717, 109123.	3.0	5
43	The importance of the Abn2 calcium cluster in the endo-1,5-arabinanase activity from <i>Bacillus subtilis</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 505-513.	2.6	4
44	Overproduction, crystallization and preliminary X-ray characterization of Abn2, an endo-1,5- $\alpha$ -arabinanase from <i>Bacillus subtilis</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 636-638.	0.7	3
45	Crystallization and preliminary X-ray crystallographic studies of the plant aspartic proteinase cardosin A. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 991-993.	2.5	2
46	Crystallisation, Structure Solution, and Initial Refinement of Plant Cardosin-A. <i>Advances in Experimental Medicine and Biology</i> , 1998, 436, 445-452.	1.6	2
47	Anomeric Selectivity of Trehalose Transferase with Rare $\alpha$ -Sugars. <i>ACS Catalysis</i> , 2020, 10, 8835-8839.	11.2	1