Isabel Bento

List of Publications by Year in descending order

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47 papers	2,169 citations	257101 24 h-index	223531 46 g-index
54 all docs	54 docs citations	54 times ranked	3450 citing authors

#	Article	IF	Citations
1	A non-catalytic herpesviral protein reconfigures ERK-RSK signaling by targeting kinase docking systems in the host. Nature Communications, 2022, 13, 472.	5.8	13
2	Identification of molecular basis that underlie enzymatic specificity of AzoRo from Rhodococcus opacus 1CP: A potential NADH:quinone oxidoreductase. Archives of Biochemistry and Biophysics, 2022, 717, 109123.	1.4	5
3	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. Science, 2021, 372, 642-646.	6.0	240
4	Anomeric Selectivity of Trehalose Transferase with Rare <scp>l</scp>-Sugars. ACS Catalysis, 2020, 10, 8835-8839.	5.5	1
5	Co-regulation of the transcription controlling ATF2 phosphoswitch by JNK and p38. Nature Communications, 2020, 11, 5769.	5.8	30
6	Immobilization of the Highly Active UDP-Glucose Pyrophosphorylase From Thermocrispum agreste Provides a Highly Efficient Biocatalyst for the Production of UDP-Glucose. Frontiers in Bioengineering and Biotechnology, 2020, 8, 740.	2.0	5
7	HomogeneouslyN-glycosylated proteins derived from the GlycoDelete HEK293 cell line enable diffraction-quality crystallogenesis. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1244-1255.	1.1	8
8	Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. International Journal of Molecular Sciences, 2019, 20, 5263.	1.8	63
9	CHâ€Ïƒ Interactions Promote the Conversion of Hydroxypyruvate in a Class II Pyruvate Aldolase. Advanced Synthesis and Catalysis, 2019, 361, 2649-2658.	2.1	13
10	Artificial Fusion of mCherry Enhances Trehalose Transferase Solubility and Stability. Applied and Environmental Microbiology, 2019, 85, .	1.4	9
11	Two Homologous Enzymes of the GalU Family in Rhodococcus opacus 1CPâ€”RoGalU1 and RoGalU2. International Journal of Molecular Sciences, 2019, 20, 5809.	1.8	5
12	P13, the EMBL macromolecular crystallography beamline at the low-emittance PETRA III ring forÂhigh- and low-energy phasing with variable beam focusing. Journal of Synchrotron Radiation, 2017, 24, 323-332.	1.0	155
13	Copper(II) Complexes of Phenanthroline and Histidine Containing Ligands: Synthesis, Characterization and Evaluation of their DNA Cleavage and Cytotoxic Activity. Inorganic Chemistry, 2016, 55, 11801-11814.	1.9	66
14	The Aza-Wharton Reaction: Syntheses of Cyclic Allylic Amines and Vicinal Hydroxyamines from the Respective Acylaziridines. Journal of Organic Chemistry, 2015, 80, 3067-3074.	1.7	9
15	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)4(NR3)2] complexes. Journal of Organometallic Chemistry, 2014, 760, 89-100.	0.8	9
16	The importance of the Abn2 calcium cluster in the endo-1,5-arabinanase activity from Bacillus subtilis. Journal of Biological Inorganic Chemistry, 2014, 19, 505-513.	1.1	4
17	Copper(II) and Gallium(III) Complexes of trans-Bis(2-hydroxybenzyl) Cyclen Derivatives: Absence of a Cross-Bridge Proves Surprisingly More Favorable. Inorganic Chemistry, 2014, 53, 4371-4386.	1.9	20
18	The crystal structure ofPseudomonasÂputidaazoreductase - the active site revisited. FEBS Journal, 2013, 280, 6643-6657.	2.2	20

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19	Copperâ€Catalyzed Regioselective Intramolecular Oxidative Î±â€Functionalization of Tertiary Amines: An Efficient Synthesis of Dihydroâ€1,3â€Oxazines. Angewandte Chemie - International Edition, 2013, 52, 9791-9795.	7.2	105
20	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. Organometallics, 2012, 31, 5810-5822.	1.1	78
21	Crystal structure of the multicopper oxidase from the pathogenic bacterium Campylobacter jejuniCGUG11284: characterization of a metallo-oxidase. Metallomics, 2012, 4, 37-47.	1.0	36
22	Endo-Î²-<scp>D</scp>-1,4-mannanase fromChrysonilia sitophiladisplays a novel loop arrangement for substrate selectivity. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1468-1478.	2.5	19
23	The role of Asp116 in the reductive cleavage of dioxygen to water in CotA laccase: assistance during the proton-transfer mechanism. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 186-193.	2.5	29
24	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. Journal of Biological Inorganic Chemistry, 2011, 16, 641-651.	1.1	14
25	Crystallization and preliminary X-ray diffraction analysis of the azoreductase PpAzoR fromPseudomonas putidaMET94. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 121-123.	0.7	7
26	Mechanisms underlying dioxygen reduction in laccases. Structural and modelling studies focusing on proton transfer. BMC Structural Biology, 2010, 10, 28.	2.3	72
27	New evidence for the role of calcium in the glycosidase reaction of GH43 arabinanases. FEBS Journal, 2010, 277, 4562-4574.	2.2	41
28	The role of Glu498 in the dioxygen reactivity of CotA-laccase from Bacillus subtilis. Dalton Transactions, 2010, 39, 2875.	1.6	49
29	Overproduction, crystallization and preliminary X-ray characterization of Abn2, an endo-1,5-Î±-arabinanase fromBacillus subtilis. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 636-638.	0.7	3
30	Proximal mutations at the typeÂ1 copper site of CotA laccase: spectroscopic, redox, kinetic and structural characterization of I494A and L386A mutants. Biochemical Journal, 2008, 412, 339-346.	1.7	66
31	Ceruloplasmin revisited: structural and functional roles of various metal cation-binding sites. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 240-248.	2.5	108
32	Crystallographic evidence for dioxygen interactions with iron proteins. Journal of Biological Inorganic Chemistry, 2007, 12, 429-442.	1.1	6
33	Synthesis and Structural Characterization of 1- and 2-Substituted Indazoles: Ester and Carboxylic Acid Derivatives. Molecules, 2006, 11, 867-889.	1.7	31
34	Purification, crystallization and preliminary X-ray study of the fungal laccase fromCerrena maxima. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 954-957.	0.7	27
35	Condensed phase behaviour of ionic liquidâ€“benzene mixtures: congruent melting of a [emim][NTf2]Â·C6H6inclusion crystal. Chemical Communications, 2006, , 2445-2447.	2.2	100
36	Three-dimensional structure of laccase from Coriolus zonatus at 2.6 Ã... resolution. Crystallography Reports, 2006, 51, 817-823.	0.1	15

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37	Perturbations of the T1 copper site in the CotA laccase from Bacillus subtilis: structural, biochemical, enzymatic and stability studies. Journal of Biological Inorganic Chemistry, 2006, 11, 514-526.	1.1	154
38	Reduction of dioxygen by enzymes containing copper. Journal of Biological Inorganic Chemistry, 2006, 11, 539-547.	1.1	85
39	X-ray structural studies of the fungal laccase from Cerrena maxima. Journal of Biological Inorganic Chemistry, 2006, 11, 963-973.	1.1	47
40	Dioxygen reduction by multi-copper oxidases; a structural perspective. Dalton Transactions, 2005, , 3507.	1.6	145
41	Molecular basis for redox-Bohr and cooperative effects in cytochrome c3 from Desulfovibrio desulfuricans ATCC 27774: Crystallographic and modeling studies of oxidized and reduced high-resolution structures at pH 7.6. Proteins: Structure, Function and Bioinformatics, 2003, 54, 135-152.	1.5	20
42	Redox-Bohr and Other Cooperativity Effects in the Nine-heme Cytochrome c from Desulfovibrio desulfuricans ATCC 27774. Journal of Biological Chemistry, 2003, 278, 36455-36469.	1.6	25
43	Conformational Component in the Coupled Transfer of Multiple Electrons and Protons in a Monomeric Tetraheme Cytochrome. Journal of Biological Chemistry, 2001, 276, 44044-44051.	1.6	39
44	Crystal Structure of Cardosin A, a Glycosylated and Arg-Gly-Asp-containing Aspartic Proteinase from the Flowers ofCynara cardunculus L.. Journal of Biological Chemistry, 1999, 274, 27694-27701.	1.6	82
45	Crystallization and preliminary X-ray crystallographic studies of the plant aspartic proteinase cardosin A. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 991-993.	2.5	2
46	Crystallisation, Structure Solution, and Initial Refinement of Plant Cardosin-A. Advances in Experimental Medicine and Biology, 1998, 436, 445-452.	0.8	2
47	The Glycosylation of the Aspartic Proteinases from Barley (Hordeum Vulgare L.) and Cardoon (Cynara) Tj ETQq1 1 0.784314 rgBT /Ov	0.2	56