Eduardo A Ceccarelli

List of Publications by Year
in descending order

69 papers	4,027 citations	304743 22 h-index	118850 62 g-index
69 all docs	69 docs citations	69 times ranked	5126 citing authors

#	Article	IF	Citations
1	Recombinant protein expression in Escherichia coli: advances and challenges. Frontiers in Microbiology, 2014, 5, 172.	3.5	1,650
2	Open questions in ferredoxin-NADP+ reductase catalytic mechanism. FEBS Journal, 2003, 270, 1900-1915.	0.2	237
3	New tools for recombinant protein production in <i>Escherichia coli</i>: A 5â€year update. Protein Science, 2019, 28, 1412-1422.	7.6	227
4	A productive NADP+ binding mode of ferredoxin-NADP + reductase revealed by protein engineering and crystallographic studies. Nature Structural Biology, 1999, 6, 847-853.	9.7	181
5	Plantâ€type ferredoxinâ€NADP ⁺ reductases: a basal structural framework and a multiplicity of functions. FASEB Journal, 1997, 11, 133-140.	0.5	151
6	Rare codon content affects the solubility of recombinant proteins in a codon bias-adjusted Escherichia coli strain. Microbial Cell Factories, 2009, 8, 41.	4.0	135
7	Functional plasticity and catalytic efficiency in plant and bacterial ferredoxin-NADP(H) reductases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1698, 155-165.	2.3	133
8	Spectroscopic Characterization of a Binuclear Metal Site in Bacillus cereus Î²-Lactamase II. Biochemistry, 1998, 37, 10173-10180.	2.5	120
9	Competition between C-terminal Tyrosine and Nicotinamide Modulates Pyridine Nucleotide Affinity and Specificity in Plant Ferredoxin-NADP+ Reductase. Journal of Biological Chemistry, 2000, 275, 10472-10476.	3.4	81
10	Interaction of the targeting sequence of chloroplast precursors with Hsp70 molecular chaperones. FEBS Journal, 2000, 267, 6239-6248.	0.2	80
11	Role of the C-Terminal Tyrosine of Ferredoxin-Nicotinamide Adenine Dinucleotide Phosphate Reductase in the Electron Transfer Processes with Its Protein Partners Ferredoxin and Flavodoxinâ€. Biochemistry, 2004, 43, 6127-6137.	2.5	72
12	Removal of DnaK contamination during fusion protein purifications. Protein Expression and Purification, 2002, 25, 503-507.	1.3	64
13	Inhibition of the bovine-heart mitochondrial F1-ATPase by cationic dyes and amphipathic peptides. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 975, 377-383.	1.0	62
14	Metallo-Î²-lactamases: does it take two to tango?. Coordination Chemistry Reviews, 1999, 190-192, 519-535.	18.8	61
15	Recombinant protein expression in microbial systems. Frontiers in Microbiology, 2014, 5, 341.	3.5	57
16	Khellin and Visnagin, Furanochromones from <i>Ammi visnaga</i> (L.) Lam., as Potential Bioherbicides. Journal of Agricultural and Food Chemistry, 2016, 64, 9475-9487.	5.2	43
17	Insights into the CLP/HSP100 Chaperone System from Chloroplasts of Arabidopsis thaliana. Journal of Biological Chemistry, 2011, 286, 29671-29680.	3.4	40
18	Novel escherichia coli strain allows efficient recombinant protein production using lactose as inducer. Biotechnology and Bioengineering, 2003, 82, 809-817.	3.3	32

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19	Contribution of the FAD binding site residue tyrosine 308 to the stability of pea ferredoxin-NADP+ oxidoreductase. Biochemistry, 1995, 34, 12842-12848.	2.5	31
20	Induced Fit and Equilibrium Dynamics for High Catalytic Efficiency in Ferredoxin-NADP(H) Reductases. Biochemistry, 2009, 48, 5760-5768.	2.5	30
21	High recovery of prochymosin from inclusion bodies using controlled air oxidation. Protein Expression and Purification, 2002, 25, 248-255.	1.3	26
22	Usefulness of Kinetic Enzyme Parameters in Biotechnological Practice. Biotechnology and Genetic Engineering Reviews, 2010, 27, 367-382.	6.2	26
23	Efficiency function for comparing catalytic competence. Trends in Biotechnology, 2008, 26, 117-118.	9.3	25
24	Trimeric structure and other properties of the chloroplast reductase binding protein. FEBS Letters, 1985, 190, 165-168.	2.8	23
25	Precursors with Altered Affinity for Hsp70 in Their Transit Peptides Are Efficiently Imported into Chloroplasts. Journal of Biological Chemistry, 2003, 278, 46473-46481.	3.4	23
26	The import of ferredoxin-NADP+ reductase precursor into chloroplasts is modulated by the region between the transit peptide and the mature core of the protein. FEBS Journal, 2002, 269, 5431-5439.	0.2	22
27	Chloroplastic Hsp100 chaperones ClpC2 and ClpD interact in vitro with a transit peptide only when it is located at the N-terminus of a protein. BMC Plant Biology, 2012, 12, 57.	3.6	22
28	Crystal structures of Leptospira interrogans FAD-containing ferredoxin-NADP+ reductase and its complex with NADP+. BMC Structural Biology, 2007, 7, 69.	2.3	20
29	One-Step Purification of Plant Ferredoxin-NADP+ Oxidoreductase Expressed in Escherichia coli as Fusion with Glutathione S-Transferase. Protein Expression and Purification, 1993, 4, 539-546.	1.3	18
30	Immunological studies of the binding protein for chloroplast ferredoxin-NADP+ reductase. Archives of Biochemistry and Biophysics, 1987, 253, 56-61.	3.0	17
31	The Precursor of Pea Ferredoxin-NADP+ Reductase Synthesized in Escherichia coli Contains Bound FAD and Is Transported into Chloroplasts. Journal of Biological Chemistry, 1995, 270, 19930-19935.	3.4	17
32	Modulation of the enzymatic efficiency of ferredoxinâ€NADP(H) reductase by the amino acid volume around the catalytic site. FEBS Journal, 2008, 275, 1350-1366.	4.7	17
33	Cooperation of the DnaK and GroE chaperone systems in the folding pathway of plant ferredoxin-NADP+ reductase expressed in Escherichia coli. FEBS Journal, 1998, 251, 724-728.	0.2	16
34	Involvement of the Flavin si-Face Tyrosine on the Structure and Function of Ferredoxin-NADP+ Reductases. Journal of Biological Chemistry, 2001, 276, 44419-44426.	3.4	15
35	Swapping FAD Binding Motifs between Plastidic and Bacterial Ferredoxin-NADP(H) Reductases. Biochemistry, 2011, 50, 2111-2122.	2.5	15
36	Two types of essential carboxyl groups in Rhodospirillum rubrum proton ATPase. Archives of Biochemistry and Biophysics, 1983, 224, 382-388.	3.0	14

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37	A Gatekeeper Residue of ClpS1 from Arabidopsis thaliana Chloroplasts Determines its Affinity Towards Substrates of the Bacterial N-End Rule. Plant and Cell Physiology, 2018, 59, 624-636.	3.1	14
38	Structural-Functional Characterization and Physiological Significance of Ferredoxin-NADP+ Reductase from Xanthomonas axonopodis pv. citri. PLoS ONE, 2011, 6, e27124.	2.5	13
39	A Highly Stable Plastidic-Type Ferredoxin-NADP(H) Reductase in the Pathogenic Bacterium Leptospira interrogans. PLoS ONE, 2011, 6, e26736.	2.5	13
40	Conformational Requirements of a Recombinant Ferredoxin-NADP+ Reductase Precursor for Efficient Binding to and Import into Isolated Chloroplasts. FEBS Journal, 1996, 238, 192-197.	0.2	12
41	Dynamics of the active site architecture in plant-type ferredoxin-NADP+ reductases catalytic complexes. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1730-1738.	1.0	12
42	Selectivity of modification when latent and activated forms of the chloroplast F1-ATPase are inactivated by 7-chloro-4-nitrobenzofurazan. Archives of Biochemistry and Biophysics, 1989, 272, 400-411.	3.0	11
43	Structural backgrounds for the formation of a catalytically competent complex with NADP(H) during hydride transfer in ferredoxinâ€“NADP+ reductases. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1063-1071.	1.0	11
44	Inhibition of pea ferredoxin-NADP(H) reductase by Zn-ferrocyanide. FEBS Journal, 2004, 271, 4582-4593.	0.2	10
45	Reduction of the Pea Ferredoxin-NADP(H) Reductase Catalytic Efficiency by the Structuring of a Carboxyl-Terminal Artificial Metal Binding Siteâ€. Biochemistry, 2006, 45, 13899-13909.	2.5	10
46	Biochemical characterization of ClpB3, a chloroplastic disaggregase from Arabidopsis thaliana. Plant Molecular Biology, 2020, 104, 451-465.	3.9	10
47	Heme-iron utilization by Leptospira interrogans requires a heme oxygenase and a plastidic-type ferredoxin-NADP+ reductase. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 3208-3217.	2.4	9
48	Characterization of the accessory protein ClpT1 from Arabidopsis thaliana: oligomerization status and interaction with Hsp100 chaperones. BMC Plant Biology, 2014, 14, 228.	3.6	9
49	A fully active FAD-containing precursor remains folded up to its translocation across the chloroplast membranes. FEBS Journal, 1998, 253, 132-138.	0.2	8
50	Structural features of the plant Nâ€recognin ClpS1 and sequence determinants in its targets that govern substrate selection. FEBS Letters, 2021, 595, 1525-1541.	2.8	8
51	Chloroplast Hsp70s are not involved in the import of ferredoxin-NADP+reductase precursor. Physiologia Plantarum, 2006, 128, 618-632.	5.2	7
52	A new catalytic mechanism of bacterial ferredoxinâ€NADP + reductases due to a particular NADP + binding mode. Protein Science, 2021, 30, 2106-2120.	7.6	7
53	Crystal Structure of the FAD-Containing Ferredoxin-NADP^{+}Reductase from the Plant Pathogen<i>Xanthomonas axonopodis</i>pv. citri. BioMed Research International, 2013, 2013, 1-6.	1.9	6
54	A novel method for removing contaminant Hsp70 molecular chaperones from recombinant proteins. Protein Science, 2019, 28, 800-807.	7.6	6

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55	Redox Proteins as Targets for Drugs Development Against Pathogens. Current Pharmaceutical Design, 2013, 19, 2594-2605.	1.9	6
56	A fast and sensitive micromethod for the manual sequencing of peptides using O-phthalaldehyde as derivatizing reagent. Journal of Proteomics, 1984, 10, 49-54.	2.4	5
57	Structural and mutational analyses of the Leptospira interrogans virulence-related heme oxygenase provide insights into its catalytic mechanism. PLoS ONE, 2017, 12, e0182535.	2.5	5
58	Toward a unified model of the action of CLP/HSP100 chaperones in chloroplasts. Plant Signaling and Behavior, 2012, 7, 672-674.	2.4	4
59	A bacterial 2[4Fe 4S] ferredoxin as redox partner of the plastidic-type ferredoxin-NADP+ reductase from Leptospira interrogans. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 651-660.	2.4	4
60	A novel Xanthomonas citri subsp. citri NADPH quinone reductase involved in salt stress response and virulence. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129514.	2.4	4
61	TAT-mediated transduction of bacterial redox proteins generates a cytoprotective effect on neuronal cells. PLoS ONE, 2017, 12, e0184617.	2.5	4
62	Expression, assembly and secretion of a fully active plant ferredoxin-NADP+ reductase by Saccharomyces cerevisiae. FEBS Journal, 1994, 225, 677-685.	0.2	3
63	Crystallization and preliminary X-ray diffraction studies of ferredoxin reductase fromLeptospira interrogans. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 662-664.	0.7	3
64	Proteome variation of the rat liver after static cold storage assayed in an ex vivo model. Cryobiology, 2018, 85, 47-55.	0.7	3
65	Starting a new recombinant protein production project in Escherichia coli. Methods in Enzymology, 2021, 659, 3-18.	1.0	3
66	Preparative purification of the subunits of chloroplast and Rhodospirillum rubrum coupling factors by flat-bed electrofocusing in granulated gels. Journal of Proteomics, 1984, 10, 103-109.	2.4	1
67	Recovery of agarose for electrophoresis of DNA fragments. Trends in Genetics, 1990, 6, 72.	6.7	1
68	From the notebook to recombinant protein production in Escherichia coli: Design of expression vectors and gene cloning. Methods in Enzymology, 2021, 659, 19-35.	1.0	1
69	15 Ferredoxin-NADP⁺ reductases. , 2012, , 313-336.		1