Marta MartÃ-nez-JÃºlvez

List of Publications by Year
in descending order

67 papers	1,657 citations	236833 25 h-index	315616 38 g-index
69 all docs	69 docs citations	69 times ranked	1609 citing authors

#	Article	IF	Citations
1	Nanomechanical Study of Enzyme: Coenzyme Complexes: Bipartite Sites in Plastidic Ferredoxin-NADP+ Reductase for the Interaction with NADP+. Antioxidants, 2022, 11, 537.	2.2	18
2	Mining the Flavoproteome of Brucella ovis, the Brucellosis Causing Agent in Ovis aries. Microbiology Spectrum, 2022, , e0229421.	1.2	1
3	Unexpected diversity of ferredoxin-dependent thioredoxin reductases in cyanobacteria. Plant Physiology, 2021, 186, 285-296.	2.3	5
4	Cofactors and pathogens: Flavin mononucleotide and flavin adenine dinucleotide (FAD) biosynthesis by the FAD synthase from Brucella ovis. IUBMB Life, 2021, , .	1.5	3
5	Towards the competent conformation for catalysis in the ferredoxin-NADP+ reductase from the Brucella ovis pathogen. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 148058.	0.5	5
6	Identification of Inhibitors Targeting Ferredoxin-NADP+ Reductase from the Xanthomonas citri subsp. citri Phytopathogenic Bacteria. Molecules, 2018, 23, 29.	1.7	6
7	Apoptosis-Inducing Factor 1, Mitochondrial. , 2018, , 361-366.		2
8	Proline dehydrogenase from Thermus thermophilus does not discriminate between FAD and FMN as cofactor. Scientific Reports, 2017, 7, 43880.	1.6	13
9	Protein dynamics promote hydride tunnelling in substrate oxidation by aryl-alcohol oxidase. Physical Chemistry Chemical Physics, 2017, 19, 28666-28675.	1.3	20
10	The FAD synthetase from the human pathogen Streptococcus pneumoniae: a bifunctional enzyme exhibiting activity-dependent redox requirements. Scientific Reports, 2017, 7, 7609.	1.6	19
11	The trimer interface in the quaternary structure of the bifunctional prokaryotic FAD synthetase from Corynebacterium ammoniagenes. Scientific Reports, 2017, 7, 404.	1.6	16
12	Direct examination of the relevance for folding, binding and electron transfer of a conserved protein folding intermediate. Physical Chemistry Chemical Physics, 2017, 19, 19021-19031.	1.3	4
13	Apoptosis-Inducing Factor 1, Mitochondrial. , 2016, , 1-7.		0
14	Mechanostability of the Singleâ€Electronâ€Transfer Complexes of <i>Anabaena</i> Ferredoxinâ€"NADP⁺ Reductase. ChemPhysChem, 2015, 16, 3161-3169.	1.0	15
15	Structural insights into the synthesis of FMN in prokaryotic organisms. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2526-2542.	2.5	25
16	Quaternary organization in a bifunctional prokaryotic FAD synthetase: Involvement of an arginine at its adenylyltransferase module on the riboflavin kinase activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 897-906.	1.1	18
17	Structural Insights into the Coenzyme Mediated Monomerâ€"Dimer Transition of the Pro-Apoptotic Apoptosis Inducing Factor. Biochemistry, 2014, 53, 4204-4215.	1.2	52
18	A hydrogen bond network in the active site of Anabaena ferredoxin-NADP+ reductase modulates its catalytic efficiency. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 251-263.	0.5	16

#	ARTICLE	IF	CITATIONS
19	External loops at the ferredoxin-NADP+ reductase proteinâ€“partner binding cavity contribute to substrates allocation. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 296-305.	0.5	4
20	Electron Transferases. Methods in Molecular Biology, 2014, 1146, 79-94.	0.4	3
21	Key Residues at the Riboflavin Kinase Catalytic Site of the Bifunctional Riboflavin Kinase/FMN Adenylyltransferase From Corynebacterium ammoniagenes. Cell Biochemistry and Biophysics, 2013, 65, 57-68.	0.9	20
22	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.	0.9	6
23	Editorial (Hot Topic: Flavoproteins and Flavoenzymes with Biomedical and Therapeutic Impact). Current Pharmaceutical Design, 2013, 19, 2497-2498.	0.9	3
24	The Prokaryotic FAD Synthetase Family: A Potential Drug Target. Current Pharmaceutical Design, 2013, 19, 2637-2648.	0.9	31
25	An efficient method for enzyme immobilization evidenced by atomic force microscopy. Protein Engineering, Design and Selection, 2012, 25, 715-723.	1.0	27
26	Structure of <scp>R</scp>dx<scp>A</scp>Ââ€“Âan oxygenâ€insensitive nitroreductase essential for metronidazole activation in <i><scp>H</scp>elicobacterÂpylori</i>. FEBS Journal, 2012, 279, 4306-4317.	2.2	41
27	NADP+ Binding to the Regulatory Subunit of Methionine Adenosyltransferase II Increases Intersubunit Binding Affinity in the Hetero-Trimer. PLoS ONE, 2012, 7, e50329.	1.1	17
28	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.	0.5	11
29	Studying the Allosteric Energy Cycle by Isothermal Titration Calorimetry. Methods in Molecular Biology, 2012, 796, 53-70.	0.4	8
30	Structural Insights into the Mechanism of Protein O-Fucosylation. PLoS ONE, 2011, 6, e25365.	1.1	85
31	Role of specific residues in coenzyme binding, chargeâ€“transfer complex formation, and catalysis in Anabaena ferredoxin NADP+-reductase. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1638-1646.	0.5	25
32	Size-dependent properties of magnetoferritin. Nanotechnology, 2010, 21, 465707.	1.3	43
33	Oligomeric State in the Crystal Structure of Modular FAD Synthetase Provides Insights into Its Sequential Catalysis in Prokaryotes. Journal of Molecular Biology, 2010, 400, 218-230.	2.0	40
34	Flavodoxin: A compromise between efficiency and versatility in the electron transfer from Photosystem I to Ferredoxin-NADP+ reductase. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 144-154.	0.5	37
35	Crystallization and preliminary X-ray diffraction studies of FAD synthetase from<i>Corynebacterium ammoniagenes</i>. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 1285-1288.	0.7	10
36	Protein Motifs Involved in Coenzyme Interaction and Enzymatic Efficiency in <i>Anabaena</i> Ferredoxin-NADP⁺ Reductase,. Biochemistry, 2009, 48, 3109-3119.	1.2	15

#	Article	IF	Citations
37	Discovery of Specific Flavodoxin Inhibitors as Potential Therapeutic Agents against <i>Helicobacter pylori</i> Infection. ACS Chemical Biology, 2009, 4, 928-938.	1.6	48
38	Binding Thermodynamics of Ferredoxin:NADP+ Reductase: Two Different Protein Substrates and One Energetics. Biophysical Journal, 2009, 96, 4966-4975.	0.2	41
39	Structural analysis of FAD synthetase from Corynebacterium ammoniagenes. BMC Microbiology, 2008, 8, 160.	1.3	43
40	Catalytic mechanism of hydride transfer between NADP+/H and ferredoxin-NADP+ reductase from Anabaena PCC 7119. Archives of Biochemistry and Biophysics, 2007, 459, 79-90.	1.4	41
41	Tuning of the FMN binding and oxido-reduction properties by neighboring side chains in Anabaena flavodoxin. Archives of Biochemistry and Biophysics, 2007, 467, 206-217.	1.4	24
42	Common conformational changes in flavodoxins induced by FMN and anion binding: The structure of <i>Helicobacter pylori</i> apoflavodoxin. Proteins: Structure, Function and Bioinformatics, 2007, 69, 581-594.	1.5	24
43	Sequence and Phylogenetic Analysis of FAD Synthetase. AIP Conference Proceedings, 2006, , .	0.3	0
44	Towards a new interaction enzyme:coenzyme. Biophysical Chemistry, 2005, 115, 219-224.	1.5	8
45	Structural analysis of interactions for complex formation between Ferredoxin-NADP+ reductase and its protein partners. Proteins: Structure, Function and Bioinformatics, 2005, 59, 592-602.	1.5	24
46	FAD semiquinone stability regulates single- and two-electron reduction of quinones by Anabaena PCC7119 ferredoxin:NADP+ reductase and its Glu301Ala mutant. Archives of Biochemistry and Biophysics, 2005, 437, 144-150.	1.4	19
47	C-Terminal Tyrosine of Ferredoxinâˆ’NADP+ Reductase in Hydride Transfer Processes with NAD(P)+/H. Biochemistry, 2005, 44, 13477-13490.	1.2	51
48	Flavoenzyme-catalyzed redox cycling of hydroxylamino- and amino metabolites of 2,4,6-trinitrotoluene: implications for their cytotoxicity. Archives of Biochemistry and Biophysics, 2004, 425, 184-192.	1.4	40
49	Role of Hydrophobic Interactions in the Flavodoxin Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP+Reductase inAnabaenaPCC 7119â€. Biochemistry, 2003, 42, 2036-2045.	1.2	29
50	Involvement of the Pyrophosphate and the 2â€²-Phosphate Binding Regions of Ferredoxin-NADP+ Reductase in Coenzyme Specificity. Journal of Biological Chemistry, 2003, 278, 49203-49214.	1.6	34
51	Structureâ€“function relationships in Anabaena ferredoxin/ferredoxin:NADP+ reductase electron transfer: insights from site-directed mutagenesis, transient absorption spectroscopy and X-ray crystallography. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1554, 5-21.	0.5	74
52	Role of a Cluster of Hydrophobic Residues Near the FAD Cofactor in Anabaena PCC 7119 Ferredoxin-NADP+Reductase for Optimal Complex Formation and Electron Transfer to Ferredoxin. Journal of Biological Chemistry, 2001, 276, 27498-27510.	1.6	37
53	Deletion of the 6-kDa subunit affects the activity and yield of the bc1 complex from Rhodovulum sulfidophilum. FEBS Journal, 2000, 267, 3753-3761.	0.2	3
54	Electrostatic forces involved in orienting <i>Anabaena</i> ferredoxin during binding to <i>Anabaena</i> ferredoxin:NAdp⁺ reductase: Siteâ€specific mutagenesis, transient kinetic measurements, and electrostatic surface potentials. Protein Science, 1999, 8, 1614-1622.	3.1	57

#	Article	IF	Citations
55	Quantitative structure activity relationships for the electron transfer reactions ofAnabaenaPCC 7119 ferredoxin-NADP+oxidoreductase with nitrobenzene and nitrobenzimidazolone derivatives: mechanistic implications. FEBS Letters, 1999, 450, 44-48.	1.3	7
56	Ferredoxin-NADP. Journal of Biological Inorganic Chemistry, 1999, 4, 568.	1.1	28
57	Protein-protein interaction in electron transfer reactions: The ferrodoxin/flavodoxin/ferredoxin:NADP+ reductase system from Anabaena. Biochimie, 1998, 80, 837-846.	1.3	15
58	Interaction of positively charged amino acid residues of recombinant, cyanobacterial ferredoxin:NADP+ reductase with ferredoxin probed by site directed mutagenesis. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1363, 85-93.	0.5	14
59	Involvement of Glutamic Acid 301 in the Catalytic Mechanism of Ferredoxin-NADP+Reductase fromAnabaenaPCC 7119â€. Biochemistry, 1998, 37, 2715-2728.	1.2	96
60	Lys75 of Anabaena Ferredoxinâ˘'NADP+ Reductase Is a Critical Residue for Binding Ferredoxin and Flavodoxin during Electron Transfer. Biochemistry, 1998, 37, 13604-13613.	1.2	43
61	Role of Arg100 and Arg264 fromAnabaenaPCC 7119 Ferredoxinâ˘'NADP+Reductase for Optimal NADP+Binding and Electron Transferâ€. Biochemistry, 1998, 37, 17680-17691.	1.2	48
62	An Electrochemical, Kinetic, and Spectroscopic Characterization of [2Feâ€"2S] Vegetative and Heterocyst Ferredoxins fromAnabaena7120 with Mutations in the Cluster Binding Loop. Archives of Biochemistry and Biophysics, 1998, 355, 181-188.	1.4	11
63	Structureâ˘'Function Relationships in Anabaena Ferredoxin:â€‰ Correlations between X-ray Crystal Structures, Reduction Potentials, and Rate Constants of Electron Transfer to Ferredoxin:NADP+ Reductase for Site-Specific Ferredoxin Mutants,. Biochemistry, 1997, 36, 11100-11117.	1.2	106
64	Molecular recognition in protein complexes involved in electron transfer. Biochemical Society Transactions, 1996, 24, 111-116.	1.6	8
65	Kinetic Characterization of Anabaena Ferredoxin-NADP+ Reductase Mutants. Biochemical Society Transactions, 1996, 24, 33S-33S.	1.6	1
66	Characterization of two recombinant forms of ferredoxin-NADP+ reductase from <i>Anabaena</i> PCC 7119 (presentation reference 204). Biochemical Society Transactions, 1996, 24, 36S-36S.	1.6	0
67	Overexpression in E. coli of the complete petH gene product from Anabaena: purification and properties of a 49 kDa ferredoxin-NADP+ reductase. BBA - Proteins and Proteomics, 1996, 1297, 200-206.	2.1	17