

Manuel Hervás

List of Publications by Year in descending order

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110
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109321

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197818

49
g-index

111
all docs

111
docs citations

111
times ranked

1907
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptation of cyanobacterial photosynthesis to metal constraints. , 2022, , 109-128.		0
2	The heterologous expression of a plastocyanin in the diatom <i>Phaeodactylum tricornutum</i> improves cell growth under iron-deficient conditions. <i>Physiologia Plantarum</i> , 2021, 171, 277-290.	5.2	9
3	New Insights into the Evolution of the Electron Transfer from Cytochrome f to Photosystem I in the Green and Red Branches of Photosynthetic Eukaryotes. <i>Plant and Cell Physiology</i> , 2021, 62, 1082-1093.	3.1	7
4	The singular properties of photosynthetic cytochrome c 550 from the diatom <i>Phaeodactylum tricornutum</i> suggest new alternative functions. <i>Physiologia Plantarum</i> , 2019, 166, 199-210.	5.2	1
5	The photosynthetic cytochrome c 550 from the diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2017, 133, 273-287.	2.9	6
6	Iron Deficiency Induces a Partial Inhibition of the Photosynthetic Electron Transport and a High Sensitivity to Light in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1050.	3.6	54
7	Cytc6-3: A New Isoform of Photosynthetic Cytc6 Exclusive to Heterocyst-Forming Cyanobacteria. <i>Plant and Cell Physiology</i> , 2016, 58, pcw184.	3.1	3
8	Interaction of photosystem I from <i>Phaeodactylum tricornutum</i> with plastocyanins as compared with its native cytochrome c6: Reunion with a lost donor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1549-1559.	1.0	5
9	Molecular recognition in the interaction of chloroplast 2-Cys peroxiredoxin with NADPH-thioredoxin reductase C (NTRC) and thioredoxin. <i>FEBS Letters</i> , 2014, 588, 4342-4347.	2.8	25
10	Structural and Functional Analysis of Novel Human Cytochrome c Targets in Apoptosis. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1439-1456.	3.8	74
11	A hydrogen bond network in the active site of <i>Anabaena</i> ferredoxin-NADP+ reductase modulates its catalytic efficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 251-263.	1.0	16
12	External loops at the ferredoxin-NADP+ reductase protein partner binding cavity contribute to substrates allocation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 296-305.	1.0	4
13	Photosystem I Reduction in Diatoms: As Complex as the Green Lineage Systems but Less Efficient. <i>Biochemistry</i> , 2013, 52, 8687-8695.	2.5	9
14	New <i>Arabidopsis thaliana</i> Cytochrome c Partners: A Look Into the Elusive Role of Cytochrome c in Programmed Cell Death in Plants. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3666-3676.	3.8	58
15	Communication between <i>Lactococcus lactis</i> galactono-1,4-lactone dehydrogenase and cytochrome c. <i>FEBS Journal</i> , 2013, 280, 1830-1840.	4.7	19
16	Electron Transfer Pathways and Dynamics of Chloroplast NADPH-dependent Thioredoxin Reductase C (NTRC). <i>Journal of Biological Chemistry</i> , 2012, 287, 33865-33872.	3.4	31
17	ArsH from the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 Is an Efficient NADPH-Dependent Quinone Reductase. <i>Biochemistry</i> , 2012, 51, 1178-1187.	2.5	39
18	Specific nitration of tyrosines 46 and 48 makes cytochrome c assemble a non-functional apoptosome. <i>FEBS Letters</i> , 2012, 586, 154-158.	2.8	35

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19	Purification of Plastocyanin and Cytochrome c 6 from Plants, Green Algae, and Cyanobacteria. <i>Methods in Molecular Biology</i> , 2011, 684, 79-94.	0.9	6
20	Probing the reactivity of different forms of azurin by flavin photoreduction. <i>FEBS Journal</i> , 2011, 278, 1506-1521.	4.7	6
21	Effect of crowding on the electron transfer process from plastocyanin and cytochrome c6 to photosystem I: a comparative study from cyanobacteria to green algae. <i>Photosynthesis Research</i> , 2011, 107, 279-286.	2.9	10
22	The Convergent Evolution of Cytochrome c 6 and Plastocyanin Has Been Driven by Geochemical Changes. , 2011, , 607-630.		2
23	Dual role of FMN in flavodoxin function: Electron transfer cofactor and modulation of the protein-protein interaction surface. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 262-271.	1.0	18
24	Structural and functional changes induced by tyrosine nitration in cytochrome c, a bi-functional protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 70.	1.0	0
25	Flavodoxin: A compromise between efficiency and versatility in the electron transfer from Photosystem I to Ferredoxin-NADP+ reductase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 144-154.	1.0	37
26	Proteomic analyses of the response of cyanobacteria to different stress conditions. <i>FEBS Letters</i> , 2009, 583, 1753-1758.	2.8	59
27	Acetylsalicylic acid induces programmed cell death in Arabidopsis cell cultures. <i>Planta</i> , 2008, 228, 89-97.	3.2	43
28	Flavodoxin-Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP ⁺ Reductase in <i>Anabaena</i> : Role of Flavodoxin Hydrophobic Residues in Protein-Protein Interactions. <i>Biochemistry</i> , 2008, 47, 1207-1217.	2.5	30
29	Effect of Nitration on the Physicochemical and Kinetic Features of Wild-Type and Monotyrosine Mutants of Human Respiratory Cytochrome c. <i>Biochemistry</i> , 2008, 47, 12371-12379.	2.5	45
30	A proteomic approach to iron and copper homeostasis in cyanobacteria. <i>Briefings in Functional Genomics & Proteomics</i> , 2008, 6, 322-329.	3.8	19
31	The Specificity in the Interaction between Cytochrome f and Plastocyanin from the Cyanobacterium <i>Nostoc</i> sp. PCC 7119 Is Mainly Determined by the Copper Protein. <i>Biochemistry</i> , 2007, 46, 997-1003.	2.5	18
32	A Laser Flash-Induced Kinetic Analysis of in Vivo Photosystem I Reduction by Site-Directed Mutants of Plastocyanin and Cytochromec6in <i>Synechocystis</i> sp. PCC 6803. <i>Biochemistry</i> , 2006, 45, 1054-1060.	2.5	15
33	A comparative kinetic analysis of the reactivity of plant, horse, and human respiratory cytochrome c towards cytochrome c oxidase. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 1108-1113.	2.1	23
34	Convergent Evolution of Cytochrome c6 and Plastocyanin. , 2006, , 683-696.		14
35	Role of the surface charges D72 and K8 in the function and structural stability of the cytochrome c6 from <i>Nostoc</i> sp. PCC 7119. <i>FEBS Journal</i> , 2005, 272, 3317-3327.	4.7	6
36	Cyanobacterial Photosystem I lacks specificity in its interaction with cytochrome c6 electron donors. <i>Photosynthesis Research</i> , 2005, 83, 329-333.	2.9	22

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37	Laser Flash-Induced Kinetic Analysis of Cytochrome f Oxidation by Wild-Type and Mutant Plastocyanin from the Cyanobacterium <i>Nostoc</i> sp. PCC 7119. <i>Biochemistry</i> , 2005, 44, 11601-11607.	2.5	30
38	Anabaena Flavodoxin as an Electron Carrier from Photosystem I to Ferredoxin-NADP+Reductase. Role of Flavodoxin Residues in Protein-Protein Interaction and Electron Transfer. <i>Biochemistry</i> , 2005, 44, 97-104.	2.5	24
39	In vivo photosystem I reduction in thermophilic and mesophilic cyanobacteria: The thermal resistance of the process is limited by factors other than the unfolding of the partners. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 170-175.	2.1	13
40	Respiratory cytochrome oxidase can be efficiently reduced by the photosynthetic redox proteins cytochrome c6 and plastocyanin in cyanobacteria. <i>FEBS Letters</i> , 2005, 579, 3565-3568.	2.8	24
41	Purification of Plastocyanin and Cytochrome c6 From Plants, Green Algae, and Cyanobacteria. , 2004, 274, 079-092.		2
42	The Efficient Functioning of Photosynthesis and Respiration in <i>Synechocystis</i> sp. PCC 6803 Strictly Requires the Presence of either Cytochrome c6 or Plastocyanin. <i>Journal of Biological Chemistry</i> , 2004, 279, 7229-7233.	3.4	73
43	Functional characterization of the evolutionarily divergent fern plastocyanin. <i>FEBS Journal</i> , 2004, 271, 3449-3456.	0.2	8
44	Electron Transfer Between Membrane Complexes and Soluble Proteins in Photosynthesis. <i>ChemInform</i> , 2004, 35, no.	0.0	0
45	Redox properties of Arabidopsis cytochrome c6 are independent of the loop extension specific to higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1657, 115-120.	1.0	12
46	A comparative structural and functional analysis of cyanobacterial plastocyanin and cytochrome c (6) as alternative electron donors to Photosystem I. <i>Photosynthesis Research</i> , 2003, 75, 97-110.	2.9	55
47	A new function for an old cytochrome?. <i>Nature</i> , 2003, 424, 33-34.	27.8	118
48	Analysis of the stability of cytochrome c6 with an improved stopped-flow protocol. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 215-221.	2.1	5
49	Electron Transfer between Membrane Complexes and Soluble Proteins in Photosynthesis. <i>Accounts of Chemical Research</i> , 2003, 36, 798-805.	15.6	131
50	Role of Hydrophobic Interactions in the Flavodoxin Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP+Reductase in <i>Anabaena</i> PCC 7119. <i>Biochemistry</i> , 2003, 42, 2036-2045.	2.5	29
51	Mutagenesis of <i>Prochlorothrix</i> Plastocyanin Reveals Additional Features in Photosystem I Interactions. <i>Journal of Biological Chemistry</i> , 2003, 278, 8179-8183.	3.4	7
52	A comparative structural and functional analysis of cytochrome c6, cytochrome c6 and plastocyanin from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 2002, 517, 50-54.	2.8	27
53	<i>Anabaena</i> sp. PCC 7119 Flavodoxin as Electron Carrier from Photosystem I to Ferredoxin-NADP+Reductase. <i>Journal of Biological Chemistry</i> , 2002, 277, 22338-22344.	3.4	31
54	An evolutionary analysis of the reaction mechanisms of photosystem I reduction by cytochrome c6 and plastocyanin. <i>Bioelectrochemistry</i> , 2002, 55, 41-45.	4.6	66

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55	Role of electrostatics in the interaction between plastocyanin and photosystem I of the cyanobacterium <i>Phormidium laminosum</i> . <i>FEBS Journal</i> , 2002, 269, 5893-5902.	0.2	12
56	Mutations in both leucine 12 and lysine 33 in plastocyanin from <i>Synechocystis</i> sp. PCC 6803 induce drastic changes in the hydrophobic interactions with Photosystem I. <i>Photosynthesis Research</i> , 2002, 72, 223-230.	2.9	3
57	Crystal structure of low-potential cytochrome c 549 from <i>Synechocystis</i> sp. PCC 6803 at 1.21 Å resolution. <i>Journal of Biological Inorganic Chemistry</i> , 2001, 6, 324-332.	2.6	40
58	A comparative study of the thermal stability of plastocyanin, cytochrome c(6) and Photosystem I in thermophilic and mesophilic cyanobacteria. <i>Photosynthesis Research</i> , 2001, 70, 281-289.	2.9	12
59	The Unique Proline of the <i>Prochlorothrix hollandica</i> Plastocyanin Hydrophobic Patch Impairs Electron Transfer to Photosystem I. <i>Journal of Biological Chemistry</i> , 2001, 276, 37501-37505.	3.4	12
60	A Single Arginyl Residue in Plastocyanin and in Cytochrome c6 from the Cyanobacterium <i>Anabaena</i> sp. PCC 7119 Is Required for Efficient Reduction of Photosystem I. <i>Journal of Biological Chemistry</i> , 2001, 276, 601-605.	3.4	42
61	Negatively charged residues in the H loop of PsaB subunit in Photosystem I from <i>Synechocystis</i> sp. PCC 6803 appear to be responsible for electrostatic repulsions with plastocyanin*. <i>Photosynthesis Research</i> , 2000, 65, 63-68.	2.9	5
62	Site-directed Mutagenesis of Cytochrome c 6 from <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 1999, 274, 13292-13297.	3.4	43
63	Oxidizing Side of the Cyanobacterial Photosystem I. <i>Journal of Biological Chemistry</i> , 1999, 274, 19048-19054.	3.4	39
64	Site-directed Mutagenesis of Cytochrome c 6 from <i>Anabaena</i> Species PCC 7119. <i>Journal of Biological Chemistry</i> , 1999, 274, 33565-33570.	3.4	40
65	Title is missing!. <i>Photosynthesis Research</i> , 1999, 62, 241-250.	2.9	2
66	Photosensitized electron transfer reactions of cytochrome c4 from <i>Pseudomonas stutzeri</i> with flavins and methyl viologen. <i>Inorganica Chimica Acta</i> , 1998, 272, 109-114.	2.4	11
67	Title is missing!. <i>Photosynthesis Research</i> , 1998, 57, 93-100.	2.9	13
68	Homology predicted structure and comparison with the secondary structure from NMR data for plastocyanin for the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Inorganica Chimica Acta</i> , 1998, 275-276, 73-89.	2.4	6
69	Structural and magnetic characterisation of the haem core of ferricytochromes c 6. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 68-73.	2.6	8
70	Cloning and Correct Expression in <i>Escherichia coli</i> of the <i>petE</i> and <i>petJ</i> Genes Respectively Encoding Plastocyanin and Cytochrome c6 from the Cyanobacterium <i>Anabaena</i> sp. PCC 7119. <i>Biochemical and Biophysical Research Communications</i> , 1998, 243, 302-306.	2.1	43
71	The 2.15 Å crystal structure of a triple mutant plastocyanin from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1998, 275, 327-336.	4.2	45
72	From Cytochrome C6 to Plastocyanin. An Evolutionary Approach. , 1998, , 1499-1504.		2

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73	Changes in the Reaction Mechanism of Electron Transfer from Plastocyanin to Photosystem I in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 As Induced by Site-Directed Mutagenesis of the Copper Protein. <i>Biochemistry</i> , 1997, 36, 10125-10130.	2.5	42
74	Co-evolution of cytochrome c6 and plastocyanin, mobile proteins transferring electrons from cytochrome b6 to photosystem I. <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 11-22.	2.6	63
75	Reduction of photosystem I by cytochrome c6 and plastocyanin: molecular recognition and reaction mechanism. <i>Bioelectrochemistry</i> , 1997, 42, 249-254.	1.0	5
76	A Comparative Thermodynamic Analysis by Laser-Flash Absorption Spectroscopy of Photosystem I Reduction by Plastocyanin and Cytochrome c6 in <i>Anabaena</i> PCC 7119, <i>Synechocystis</i> PCC 6803, and Spinach. <i>Biochemistry</i> , 1996, 35, 2693-2698.	2.5	58
77	The solution structure of cytochrome c6 from the green alga <i>Monoraphidium braunii</i> . <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 330-340.	2.6	26
78	A Comparative Kinetic Analysis of the Flavin-Photosensitized Oxidation and Reduction of Plastocyanin and Cytochrome c6 from Different Organisms. <i>Photochemistry and Photobiology</i> , 1996, 63, 86-91.	2.5	5
79	Cytochrome c6 from the green alga <i>Monoraphidium braunii</i> . Crystallization and preliminary diffraction studies. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1995, 51, 232-234.	2.5	7
80	Ab initio determination of the crystal structure of cytochrome c6 and comparison with plastocyanin. <i>Structure</i> , 1995, 3, 1159-1169.	3.3	146
81	pH-dependent photoreactions of the high- and low-potential forms of cytochrome b559 in spinach PS II-enriched membranes. <i>Photosynthesis Research</i> , 1995, 46, 185-191.	2.9	21
82	Purification and Physicochemical Properties of the Low Potential Cytochrome C549 from the Cyanobacterium <i>Synechocystis</i> sp PCC 6803. <i>Archives of Biochemistry and Biophysics</i> , 1995, 318, 46-52.	3.0	42
83	Site-Specific Mutagenesis Demonstrates That the Structural Requirements for Efficient Electron Transfer in <i>Anabaena</i> Ferredoxin and Flavodoxin Are Highly Dependent on the Reaction Partner: Kinetic Studies with Photosystem I, Ferredoxin:NADP ⁺ Reductase, and Cytochrome c. <i>Archives of Biochemistry and Biophysics</i> , 1995, 321, 229-238.	3.0	38
84	Laser-Flash Kinetic Analysis of the Fast Electron Transfer from Plastocyanin and Cytochrome c6 to Photosystem I. Experimental Evidence on the Evolution of the Reaction Mechanism. <i>Biochemistry</i> , 1995, 34, 11321-11326.	2.5	151
85	Photoreactions of High- and Low-Potential Cytochrome b559 during Photoinhibition. , 1995, , 3215-3218.		0
86	A thermodynamic study by laser-flash photolysis of plastocyanin and cytochrome c6 oxidation by photosystem I from the green alga <i>Monoraphidium braunii</i> . <i>FEBS Journal</i> , 1994, 222, 1001-1007.	0.2	29
87	LASER FLASH-INDUCED PHOTOREDUCTION OF PHOTOSYNTHETIC FERREDOXINS AND FLAVODOXIN BY 5-DEAZARIBOFLAVIN AND BY A. <i>Photochemistry and Photobiology</i> , 1994, 60, 231-236.	2.5	10
88	Laser flash kinetic analysis of <i>Synechocystis</i> PCC 6803 cytochrome c6 and plastocyanin oxidation by Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1184, 235-241.	1.0	57
89	Cloning and correct expression in <i>E. coli</i> of the <i>petJ</i> gene encoding cytochrome c6 from <i>Synechocystis</i> 6803. <i>FEBS Letters</i> , 1994, 347, 173-177.	2.8	41
90	Redox Properties of Cytochrome b559 in Photosynthetic Membranes from the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Plant Physiology</i> , 1994, 144, 454-461.	3.5	9

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91	A comparative laser-flash absorption spectroscopy study of Anabaena PCC 7119 plastocyanin and cytochrome c6 photooxidation by photosystem I particles. FEBS Journal, 1993, 213, 1133-1138.	0.2	41
92	Cytochrome c6 from Monoraphidium braunii. A cytochrome with an unusual heme axial coordination. FEBS Journal, 1993, 216, 329-341.	0.2	39
93	Synechocystis6803 plastocyanin isolated from both the cyanobacterium and E. coli transformed cells are identical. FEBS Letters, 1993, 319, 257-260.	2.8	37
94	A comparative laser-flash absorption spectroscopy study of algal plastocyanin and cytochrome c552 photooxidation by photosystem I particles from spinach. FEBS Journal, 1992, 203, 115-120.	0.2	63
95	A laser flash absorption spectroscopy study of Anabaena sp. PCC 7119 flavodoxin photoreduction by photosystem I particles from spinach. FEBS Letters, 1992, 313, 239-242.	2.8	41
96	Electron transfer reactions in both the oxidizing and reducing sites of photosystem I. Journal of Electroanalytical Chemistry, 1992, 343, 205-212.	3.8	0
97	Electron transfer reactions in both the oxidizing and reducing sites of photosystem I. Bioelectrochemistry, 1992, 28, 205-212.	1.0	0
98	A LASER FLASH SPECTROSCOPY STUDY OF THE KINETICS OF ELECTRON TRANSFER FROM SPINACH PHOTOSYSTEM I TO SPINACH AND ALGAL FERREDOXINS. Photochemistry and Photobiology, 1992, 56, 319-324.	2.5	28
99	Flavin Laser Flash Photolysis Studies of the Electron Transfer Mechanism in Redox Proteins. , 1992, , 319-331.		0
100	Flavin-photosensitized oxidation of reduced c-type cytochromes. Reaction mechanism and comparison with photoreduction of oxidized cytochromes by flavin semiquinones. FEBS Journal, 1990, 191, 531-536.	0.2	13
101	Sequential transduction of light into redox and acid-base energy in photosynthesis. Bioelectrochemistry, 1990, 23, 105-128.	1.0	9
102	Distinctive stability of the reduced and oxidized forms of high-potential cytochrome b-559 in photosystem II particles. Plant Science, 1990, 68, 71-75.	3.6	23
103	Isolation and Comparison of Molecular Properties of Cytochrome b-559 from Both Spinach Thylakoids and PS II Particles. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 415-422.	1.4	9
104	Location of cytochrome b-559 between photosystem II and Photosystem I in noncyclic electron transport. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 975, 244-251.	1.0	17
105	Redox and acid-base characterization of cytochrome b-559 in photosystem II particles. FEBS Journal, 1988, 171, 449-455.	0.2	68
106	Restoration of high-potential cytochrome b-564 by integration of baker's yeast complex III into liposomes. Biochemical and Biophysical Research Communications, 1988, 152, 981-986.	2.1	3
107	Coupling between redox and acid-base energy by cytochrome b-564 in baker's yeast mitochondria. Biochemical and Biophysical Research Communications, 1984, 124, 807-814.	2.1	5
108	pH-Dependent interconversion between the two redox forms of chloroplast cytochrome b-559. Bioelectrochemistry, 1983, 10, 413-426.	1.0	9

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109	Energy transduction by bioelectrochemical systems. <i>Bioelectrochemistry</i> , 1983, 11, 193-230.	1.0	16
110	Plastocyanin and Cytochrome c6: the Soluble Electron Carriers between the Cytochrome b6/f Complex and Photosystem I. , 0, , 181-200.		11