Manuel HervÃ¡s

List of Publications by Year in descending order

110 papers	2,984 citations	109321 35 h-index	197818 49 g-index
111 all docs	111 docs citations	111 times ranked	1907 citing authors

#	Article	IF	Citations
1	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. Biochemistry, 1995, 34, 11321-11326.	2.5	151
2	Ab initio determination of the crystal structure of cytochrome c6 and comparison with plastocyanin. Structure, 1995, 3, 1159-1169.	3.3	146
3	Electron Transfer between Membrane Complexes and Soluble Proteins in Photosynthesis. Accounts of Chemical Research, 2003, 36, 798-805.	15.6	131
4	A new function for an old cytochrome?. Nature, 2003, 424, 33-34.	27.8	118
5	Structural and Functional Analysis of Novel Human Cytochrome c Targets in Apoptosis. Molecular and Cellular Proteomics, 2014, 13, 1439-1456.	3.8	74
6	The Efficient Functioning of Photosynthesis and Respiration in Synechocystis sp. PCC 6803 Strictly Requires the Presence of either Cytochrome c6 or Plastocyanin. Journal of Biological Chemistry, 2004, 279, 7229-7233.	3.4	73
7	Redox and acid-base characterization of cytochrome b-559 in photosystem II particles. FEBS Journal, 1988, 171, 449-455.	0.2	68
8	An evolutionary analysis of the reaction mechanisms of photosystem I reduction by cytochrome c6 and plastocyanin. Bioelectrochemistry, 2002, 55, 41-45.	4.6	66
9	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
10	Co-evolution of cytochrome c 6 and plastocyanin, mobile proteins transferring electrons from cytochrome b 6fâ€Š to photosystem I. Journal of Biological Inorganic Chemistry, 1997, 2, 11-22.	2.6	63
11	Proteomic analyses of the response of cyanobacteria to different stress conditions. FEBS Letters, 2009, 583, 1753-1758.	2.8	59
12	A Comparative Thermodynamic Analysis by Laser-Flash Absorption Spectroscopy of Photosystem I Reduction by Plastocyanin and Cytochrome c6 in Anabaena PCC 7119, Synechocystis PCC 6803, and Spinach. Biochemistry, 1996, 35, 2693-2698.	2.5	58
13	New Arabidopsis thaliana Cytochrome c Partners: A Look Into the Elusive Role of Cytochrome c in Programmed Cell Death in Plants. Molecular and Cellular Proteomics, 2013, 12, 3666-3676.	3.8	58
14	Laser flash kinetic analysis of Synechocystis PCC 6803 cytochrome c6 and plastocyanin oxidation by Photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1184, 235-241.	1.0	57
15	A comparative structural and functional analysis of cyanobacterial plastocyanin and cytochrome c (6) as alternative electron donors to Photosystem I. Photosynthesis Research, 2003, 75, 97-110.	2.9	55
16	Iron Deficiency Induces a Partial Inhibition of the Photosynthetic Electron Transport and a High Sensitivity to Light in the Diatom Phaeodactylum tricornutum. Frontiers in Plant Science, 2016, 7, 1050.	3.6	54
17	The 2.15 Ã... crystal structure of a triple mutant plastocyanin from the cyanobacterium Synechocystis sp. PCC 6803 1 1Edited by R. Huber. Journal of Molecular Biology, 1998, 275, 327-336.	4.2	45
18	Effect of Nitration on the Physicochemical and Kinetic Features of Wild-Type and Monotyrosine Mutants of Human Respiratory Cytochrome c. Biochemistry, 2008, 47, 12371-12379.	2.5	45

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19	Cloning and Correct Expression inEscherichia coliof thepetE andpetJ Genes Respectively Encoding Plastocyanin and Cytochromec6from the CyanobacteriumAnabaenasp. PCC 7119. Biochemical and Biophysical Research Communications, 1998, 243, 302-306.	2.1	43
20	Site-directed Mutagenesis of Cytochromec 6 from Synechocystissp. PCC 6803. Journal of Biological Chemistry, 1999, 274, 13292-13297.	3.4	43
21	Acetylsalicylic acid induces programmed cell death in Arabidopsis cell cultures. Planta, 2008, 228, 89-97.	3.2	43
22	Purification and Physicochemical Properties of the Low Potential Cytochrome C549 from the Cyanobacterium Synechocystis Sp PCC 6803. Archives of Biochemistry and Biophysics, 1995, 318, 46-52.	3.0	42
23	Changes in the Reaction Mechanism of Electron Transfer from Plastocyanin to Photosystem I in the CyanobacteriumSynechocystissp. PCC 6803 As Induced by Site-Directed Mutagenesis of the Copper Proteinâ€. Biochemistry, 1997, 36, 10125-10130.	2.5	42
24	A Single Arginyl Residue in Plastocyanin and in Cytochrome c6 from the Cyanobacterium Anabaenasp. PCC 7119 Is Required for Efficient Reduction of Photosystem I. Journal of Biological Chemistry, 2001, 276, 601-605.	3.4	42
25	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
26	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
27	Cloning and correct expression inE. coliof thepetJ gene encoding cytochromec6fromSynechocystis6803. FEBS Letters, 1994, 347, 173-177.	2.8	41
28	Site-directed Mutagenesis of Cytochromec 6 from Anabaena Species PCC 7119. Journal of Biological Chemistry, 1999, 274, 33565-33570.	3.4	40
29	Crystal structure of low-potential cytochrome c 549 from Synechocystis sp. PCC 6803 at 1.21ÂÃ... resolution. Journal of Biological Inorganic Chemistry, 2001, 6, 324-332.	2.6	40
30	Cytochrome c6 from Monoraphidium braunii. A cytochrome with an unusual heme axial coordination. FEBS Journal, 1993, 216, 329-341.	0.2	39
31	Oxidizing Side of the Cyanobacterial Photosystem I. Journal of Biological Chemistry, 1999, 274, 19048-19054.	3.4	39
32	ArsH from the Cyanobacterium Synechocystis sp. PCC 6803 Is an Efficient NADPH-Dependent Quinone Reductase. Biochemistry, 2012, 51, 1178-1187.	2.5	39
33	Site-Specific Mutagenesis Demonstrates That the Structural Requirements for Efficient Electron Transfer in Anabaena Ferredoxin and Flavodoxin Are Highly Dependent on the Reaction Partner: Kinetic Studies with Photosystem I, Ferredoxin:NADP+ Reductase, and Cytochrome c. Archives of Biochemistry and Biophysics, 1995, 321, 229-238.	3.0	38
34	Synechocystis6803 plastocyanin isolated from both the cyanobacterium andE. colitransformed cells are identical. FEBS Letters, 1993, 319, 257-260.	2.8	37
35	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.	1.0	37
36	Specific nitration of tyrosines 46 and 48 makes cytochrome c assemble a nonâ€functional apoptosome. FEBS Letters, 2012, 586, 154-158.	2.8	35

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37	Anabaena sp. PCC 7119 Flavodoxin as Electron Carrier from Photosystem I to Ferredoxin-NADP+Reductase. Journal of Biological Chemistry, 2002, 277, 22338-22344.	3.4	31
38	Electron Transfer Pathways and Dynamics of Chloroplast NADPH-dependent Thioredoxin Reductase C (NTRC). Journal of Biological Chemistry, 2012, 287, 33865-33872.	3.4	31
39	Laser Flash-Induced Kinetic Analysis of Cytochrome f Oxidation by Wild-Type and Mutant Plastocyanin from the Cyanobacterium Nostoc sp. PCC 7119. Biochemistry, 2005, 44, 11601-11607.	2.5	30
40	Flavodoxin-Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP⁺ Reductase in Anabaena:â€‰ Role of Flavodoxin Hydrophobic Residues in Proteinâ^'Protein Interactions. Biochemistry, 2008, 47, 1207-1217.	2.5	30
41	A thermodynamic study by laser-flash photolysis of plastocyanin and cytochrome c6 oxidation by photosystem I from the green alga Monoraphidium braunii. FEBS Journal, 1994, 222, 1001-1007.	0.2	29
42	Role of Hydrophobic Interactions in the Flavodoxin Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP+Reductase inAnabaenaPCC 7119â€. Biochemistry, 2003, 42, 2036-2045.	2.5	29
43	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
44	A comparative structural and functional analysis of cytochromecM, cytochromec6and plastocyanin from the cyanobacteriumSynechocystissp. PCC 6803. FEBS Letters, 2002, 517, 50-54.	2.8	27
45	The solution structure of cytochrome c 6 from the green alga Monoraphidium braunii. Journal of Biological Inorganic Chemistry, 1996, 1, 330-340.	2.6	26
46	Molecular recognition in the interaction of chloroplast 2â€Cys peroxiredoxin with NADPHâ€thioredoxin reductase C (NTRC) and thioredoxin x. FEBS Letters, 2014, 588, 4342-4347.	2.8	25
47	AnabaenaFlavodoxin as an Electron Carrier from Photosystem I to Ferredoxin-NADP+Reductase. Role of Flavodoxin Residues in Proteinâ^'Protein Interaction and Electron Transferâ€. Biochemistry, 2005, 44, 97-104.	2.5	24
48	Respiratory cytochromecoxidase can be efficiently reduced by the photosynthetic redox proteins cytochromec6and plastocyanin in cyanobacteria. FEBS Letters, 2005, 579, 3565-3568.	2.8	24
49	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
50	A comparative kinetic analysis of the reactivity of plant, horse, and human respiratory cytochrome c towards cytochrome c oxidase. Biochemical and Biophysical Research Communications, 2006, 346, 1108-1113.	2.1	23
51	Cyanobacterial Photosystem I lacks specificity in its interaction with cytochrome c6 electron donors. Photosynthesis Research, 2005, 83, 329-333.	2.9	22
52	pH-dependent photoreactions of the high- and low-potential forms of cytochrome b559 in spinach PS II-enriched membranes. Photosynthesis Research, 1995, 46, 185-191.	2.9	21
53	A proteomic approach to iron and copper homeostasis in cyanobacteria. Briefings in Functional Genomics & Proteomics, 2008, 6, 322-329.	3.8	19
54	Communication between <scp>L</scp>â€“galactonoâ€“1,4â€“lactone dehydrogenase and cytochrome c. FEBS Journal, 2013, 280, 1830-1840.	4.7	19

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55	The Specificity in the Interaction between Cytochrome f and Plastocyanin from the Cyanobacterium Nostoc sp. PCC 7119 Is Mainly Determined by the Copper Protein. Biochemistry, 2007, 46, 997-1003.	2.5	18
56	Dual role of FMN in flavodoxin function: Electron transfer cofactor and modulation of the proteinâ€“protein interaction surface. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 262-271.	1.0	18
57	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
58	Energy transduction by bioelectrochemical systems. Bioelectrochemistry, 1983, 11, 193-230.	1.0	16
59	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.	1.0	16
60	A Laser Flash-Induced Kinetic Analysis of in Vivo Photosystem I Reduction by Site-Directed Mutants of Plastocyanin and Cytochromec6inSynechocystissp. PCC 6803â€. Biochemistry, 2006, 45, 1054-1060.	2.5	15
61	Convergent Evolution of Cytochrome c6 and Plastocyanin. , 2006, , 683-696.		14
62	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
63	Title is missing!. Photosynthesis Research, 1998, 57, 93-100.	2.9	13
64	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. Biochemical and Biophysical Research Communications, 2005, 334, 170-175.	2.1	13
65	A comparative study of the thermal stability of plastocyanin, cytochrome c(6) and Photosystem I in thermophilic and mesophilic cyanobacteria. Photosynthesis Research, 2001, 70, 281-289.	2.9	12
66	The Unique Proline of the Prochlorothrix hollandica Plastocyanin Hydrophobic Patch Impairs Electron Transfer to Photosystem I. Journal of Biological Chemistry, 2001, 276, 37501-37505.	3.4	12
67	Role of electrostatics in the interaction between plastocyanin and photosystemâ€ƒI of the cyanobacterium Phormidium laminosum. FEBS Journal, 2002, 269, 5893-5902.	0.2	12
68	Redox properties of Arabidopsis cytochrome c6 are independent of the loop extension specific to higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1657, 115-120.	1.0	12
69	Photosensitized electron transfer reactions of cytochrome c4 from Pseudomonas stutzeri with flavins and methyl viologen. Inorganica Chimica Acta, 1998, 272, 109-114.	2.4	11
70	Plastocyanin and Cytochromec6: the Soluble Electron Carriers between the Cytochromeb6f Complex and Photosystem I. , 0, , 181-200.		11
71	LASER FLASH-INDUCED PHOTOREDUCTION OF PHOTOSYNTHETIC FERREDOXINS AND FLAVODOXIN BY 5-DEAZARIBOFLAVIN AND BY A. Photochemistry and Photobiology, 1994, 60, 231-236.	2.5	10
72	Effect of crowding on the electron transfer process from plastocyanin and cytochrome c6 to photosystem I: a comparative study from cyanobacteria to green algae. Photosynthesis Research, 2011, 107, 279-286.	2.9	10

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73	pH-Dependent interconversion between the two redox forms of chloroplast cytochrome b-559. Bioelectrochemistry, 1983, 10, 413-426.	1.0	9
74	Isolation and Comparison of Molecular Properties of Cytochrome Â£-559 from Both Spinach Thylakoids and PS II Particles. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 415-422.	1.4	9
75	Sequential transduction of light into redox and acidâ€"base energy in photosynthesis. Bioelectrochemistry, 1990, 23, 105-128.	1.0	9
76	Redox Properties of Cytochrome b559 in Photosynthetic Membranes from the Cyanobacterium Synechocystis sp. PCC 6803. Journal of Plant Physiology, 1994, 144, 454-461.	3.5	9
77	Photosystem I Reduction in Diatoms: As Complex as the Green Lineage Systems but Less Efficient. Biochemistry, 2013, 52, 8687-8695.	2.5	9
78	The heterologous expression of a plastocyanin in the diatom Phaeodactylum tricornutum improves cell growth under ironâ€deficient conditions. Physiologia Plantarum, 2021, 171, 277-290.	5.2	9
79	Structural and magnetic characterisation of the haem core of ferricytochromes c 6. Journal of Biological Inorganic Chemistry, 1998, 3, 68-73.	2.6	8
80	Functional characterization of the evolutionarily divergent fern plastocyanin. FEBS Journal, 2004, 271, 3449-3456.	0.2	8
81	Cytochromec6from the green algaMonoraphidium braunii. Crystallization and preminary diffraction studies. Acta Crystallographica Section D: Biological Crystallography, 1995, 51, 232-234.	2.5	7
82	Mutagenesis of Prochlorothrix Plastocyanin Reveals Additional Features in Photosystem I Interactions. Journal of Biological Chemistry, 2003, 278, 8179-8183.	3.4	7
83	New Insights into the Evolution of the Electron Transfer from Cytochrome f to Photosystem I in the Green and Red Branches of Photosynthetic Eukaryotes. Plant and Cell Physiology, 2021, 62, 1082-1093.	3.1	7
84	Homology predicted structure and comparison with the secondary structure from NMR data for plastocyanin for the cyanobacterium Synechocystis sp. PCC 6803. Inorganica Chimica Acta, 1998, 275-276, 73-89.	2.4	6
85	Role of the surface charges D72 and K8 in the function and structural stability of the cytochromeâ€ƒc6 from Nostoc sp. PCCâ€ƒ7119. FEBS Journal, 2005, 272, 3317-3327.	4.7	6
86	Purification of Plastocyanin and Cytochrome c 6 from Plants, Green Algae, and Cyanobacteria. Methods in Molecular Biology, 2011, 684, 79-94.	0.9	6
87	Probing the reactivity of different forms of azurin by flavin photoreduction. FEBS Journal, 2011, 278, 1506-1521.	4.7	6
88	The photosynthetic cytochrome c 550 from the diatom Phaeodactylum tricornutum. Photosynthesis Research, 2017, 133, 273-287.	2.9	6
89	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
90	A Comparative Kinetic Analysis of the Flavin-Photosensitized Oxidation and Reduction of Plastocyanin and Cytochrome c6from Different Organisms. Photochemistry and Photobiology, 1996, 63, 86-91.	2.5	5

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91	Reduction of photosystem I by cytochrome c6 and plastocyanin: molecular recognition and reaction mechanism. Bioelectrochemistry, 1997, 42, 249-254.	1.0	5
92	Negatively charged residues in the H loop of PsaB subunit in Photosystem I from Synechocystis sp. PCC 6803 appear to be responsible for electrostatic repulsions with plastocyanin*. Photosynthesis Research, 2000, 65, 63-68.	2.9	5
93	Analysis of the stability of cytochrome c6 with an improved stopped-flow protocol. Biochemical and Biophysical Research Communications, 2003, 310, 215-221.	2.1	5
94	Interaction of photosystem I from Phaeodactylum tricornutum with plastocyanins as compared with its native cytochrome c6: Reunion with a lost donor. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1549-1559.	1.0	5
95	External loops at the ferredoxin-NADP+ reductase proteinâ€“partner binding cavity contribute to substrates allocation. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 296-305.	1.0	4
96	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
97	Mutations in both leucine 12 and lysine 33 in plastocyanin from Synechocystis sp. PCC 6803 induce drastic changes in the hydrophobic interactions with Photosystem I. Photosynthesis Research, 2002, 72, 223-230.	2.9	3
98	Cytc6-3: A New Isoform of Photosynthetic Cytc6Exclusive to Heterocyst-Forming Cyanobacteria. Plant and Cell Physiology, 2016, 58, pcw184.	3.1	3
99	Title is missing!. Photosynthesis Research, 1999, 62, 241-250.	2.9	2
100	Purification of Plastocyanin and Cytochrome <I>c_{6</I>} From Plants, Green Algae, and Cyanobacteria. , 2004, 274, 079-092.		2
101	The Convergent Evolution of Cytochrome c 6 and Plastocyanin Has Been Driven by Geochemical Changes. , 2011, , 607-630.		2
102	From Cytochrome C6 to Plastocyanin. An Evolutionary Approach. , 1998, , 1499-1504.		2
103	The singular properties of photosynthetic cytochrome c 550 from the diatom Phaeodactylum tricornutum suggest new alternative functions. Physiologia Plantarum, 2019, 166, 199-210.	5.2	1
104	Electron transfer reactions in both the oxidizing and reducing sites of photosystem I. Journal of Electroanalytical Chemistry, 1992, 343, 205-212.	3.8	0
105	Electron transfer reactions in both the oxidizing and reducing sites of photosystem I. Bioelectrochemistry, 1992, 28, 205-212.	1.0	0
106	Electron Transfer Between Membrane Complexes and Soluble Proteins in Photosynthesis. ChemInform, 2004, 35, no.	0.0	0
107	Structural and functional changes induced by tyrosine nitration in cytochrome c, a bi-functional protein. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 70.	1.0	0
108	Flavin Laser Flash Photolysis Studies of the Electron Transfer Mechanism in Redox Proteins. , 1992, , 319-331.		0

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109	Photoreactions of High- and Low-Potential Cytochrome b559 during Photoinhibition. , 1995, , 3215-3218.		0
110	Adaptation of cyanobacterial photosynthesis to metal constraints. , 2022, , 109-128.		0