Jose A Navarro

List of Publications by Year
in descending order

112 papers	3,029 citations	109137 35 h-index	197535 49 g-index
112 all docs	112 docs citations	112 times ranked	2048 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 Phaeodactylum tricornutum improves cell growth under ironâ€deficient conditions. Physiologia Plantarum, 2021, 171, 277-290.	2.6	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. Plant and Cell Physiology, 2021, 62, 1082-1093.	1.5	7
4	Endophytic Colonization of Rice (<i>Oryza sativa</i> L.) by the Symbiotic Strain <i>Nostoc punctiforme</i> PCC 73102. Molecular Plant-Microbe Interactions, 2020, 33, 1040-1045.	1.4	21
5	Cytochrome c6 is the main respiratory and photosynthetic soluble electron donor in heterocysts of the cyanobacterium Anabaena sp. PCC 7120. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 60-68.	0.5	14
6	The singular properties of photosynthetic cytochrome c 550 from the diatom Phaeodactylum tricornutum suggest new alternative functions. Physiologia Plantarum, 2019, 166, 199-210.	2.6	1
7	The photosynthetic cytochrome c 550 from the diatom Phaeodactylum tricornutum. Photosynthesis Research, 2017, 133, 273-287.	1.6	6
8	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.	1.7	54
9	Cytc6-3: A New Isoform of Photosynthetic Cytc6Exclusive to Heterocyst-Forming Cyanobacteria. Plant and Cell Physiology, 2016, 58, pcw184.	1.5	3
10	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.	0.5	5
11	Molecular recognition in the interaction of chloroplast 2â€Cys peroxiredoxin with NADPHâ€thioredoxin reductase C (NTRC) and thioredoxin <i>x</i>. FEBS Letters, 2014, 588, 4342-4347.	1.3	25
12	Structural and Functional Analysis of Novel Human Cytochrome c Targets in Apoptosis. Molecular and Cellular Proteomics, 2014, 13, 1439-1456.	2.5	74
13	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
14	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
15	Photosystem I Reduction in Diatoms: As Complex as the Green Lineage Systems but Less Efficient. Biochemistry, 2013, 52, 8687-8695.	1.2	9
16	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.	2.5	58
17	Communication between <scp>L</scp>â€“galactonoâ€“1,4â€“lactone dehydrogenase and cytochrome <i>c</i>. FEBS Journal, 2013, 280, 1830-1840.	2.2	19
18	Electron Transfer Pathways and Dynamics of Chloroplast NADPH-dependent Thioredoxin Reductase C (NTRC). Journal of Biological Chemistry, 2012, 287, 33865-33872.	1.6	31

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19	ArsH from the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 Is an Efficient NADPH-Dependent Quinone Reductase. Biochemistry, 2012, 51, 1178-1187.	1.2	39
20	Specific nitration of tyrosines 46 and 48 makes cytochrome <i>c</i> assemble a nonâ€functional apoptosome. FEBS Letters, 2012, 586, 154-158.	1.3	35
21	Purification of Plastocyanin and Cytochrome c 6 from Plants, Green Algae, and Cyanobacteria. Methods in Molecular Biology, 2011, 684, 79-94.	0.4	6
22	Probing the reactivity of different forms of azurin by flavin photoreduction. FEBS Journal, 2011, 278, 1506-1521.	2.2	6
23	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.	1.6	10
24	The Convergent Evolution of Cytochrome c 6 and Plastocyanin Has Been Driven by Geochemical Changes. , 2011, , 607-630.		2
25	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.	0.5	18
26	Structural and functional changes induced by tyrosine nitration in cytochrome c, a bi-functional protein. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 70.	0.5	0
27	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
28	Proteomic analyses of the response of cyanobacteria to different stress conditions. FEBS Letters, 2009, 583, 1753-1758.	1.3	59
29	Acetylsalicylic acid induces programmed cell death in Arabidopsis cell cultures. Planta, 2008, 228, 89-97.	1.6	43
30	Flavodoxin-Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP⁺ Reductase in <i>Anabaena</i>:â€‰ Role of Flavodoxin Hydrophobic Residues in Proteinâˆ'Protein Interactions. Biochemistry, 2008, 47, 1207-1217.	1.2	30
31	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.	1.2	45
32	A proteomic approach to iron and copper homeostasis in cyanobacteria. Briefings in Functional Genomics & Proteomics, 2008, 6, 322-329.	3.8	19
33	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.	1.2	18
34	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.	1.2	15
35	Thermal Unfolding of Plastocyanin from the Mesophilic Cyanobacterium Synechocystis sp. PCC 6803 and Comparison with Its Thermophilic Counterpart from Phormidium laminosum. Biochemistry, 2006, 45, 4900-4906.	1.2	11
36	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.	1.0	23

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37	Convergent Evolution of Cytochrome c6 and Plastocyanin. , 2006, , 683-696.		14
38	Cyanobacterial Photosystem I lacks specificity in its interaction with cytochrome c6 electron donors. Photosynthesis Research, 2005, 83, 329-333.	1.6	22
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.	1.2	30
40	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.	1.2	24
41	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.	1.0	13
42	Respiratory cytochromecoxidase can be efficiently reduced by the photosynthetic redox proteins cytochromec6and plastocyanin in cyanobacteria. FEBS Letters, 2005, 579, 3565-3568.	1.3	24
43	Purification of Plastocyanin and Cytochrome <I>c_{6</I>} From Plants, Green Algae, and Cyanobacteria. , 2004, 274, 079-092.		2
44	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.	1.6	73
45	Functional characterization of the evolutionarily divergent fern plastocyanin. FEBS Journal, 2004, 271, 3449-3456.	0.2	8
46	Electron Transfer Between Membrane Complexes and Soluble Proteins in Photosynthesis. ChemInform, 2004, 35, no.	0.1	0
47	A Thermal Unfolding Study of Plastocyanin from the Thermophilic Cyanobacterium Phormidium laminosum. Biochemistry, 2004, 43, 14784-14791.	1.2	17
48	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.	0.5	12
49	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.	1.6	55
50	A new function for an old cytochrome?. Nature, 2003, 424, 33-34.	13.7	118
51	Electron Transfer between Membrane Complexes and Soluble Proteins in Photosynthesis. Accounts of Chemical Research, 2003, 36, 798-805.	7.6	131
52	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
53	Mutagenesis of Prochlorothrix Plastocyanin Reveals Additional Features in Photosystem I Interactions. Journal of Biological Chemistry, 2003, 278, 8179-8183.	1.6	7
54	A comparative structural and functional analysis of cytochromecM, cytochromec6and plastocyanin from the cyanobacteriumSynechocystissp. PCC 6803. FEBS Letters, 2002, 517, 50-54.	1.3	27

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55	Anabaena sp. PCC 7119 Flavodoxin as Electron Carrier from Photosystem I to Ferredoxin-NADP+Reductase. Journal of Biological Chemistry, 2002, 277, 22338-22344.	1.6	31
56	An evolutionary analysis of the reaction mechanisms of photosystem I reduction by cytochrome c6 and plastocyanin. Bioelectrochemistry, 2002, 55, 41-45.	2.4	66
57	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
58	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.	1.6	3
59	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.	1.1	40
60	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.	1.6	12
61	The Unique Proline of the Prochlorothrix hollandica Plastocyanin Hydrophobic Patch Impairs Electron Transfer to Photosystem I. Journal of Biological Chemistry, 2001, 276, 37501-37505.	1.6	12
62	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.	1.6	42
63	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.	1.6	5
64	Site-directed Mutagenesis of Cytochromec 6 from Synechocystissp. PCC 6803. Journal of Biological Chemistry, 1999, 274, 13292-13297.	1.6	43
65	Oxidizing Side of the Cyanobacterial Photosystem I. Journal of Biological Chemistry, 1999, 274, 19048-19054.	1.6	39
66	Site-directed Mutagenesis of Cytochromec 6 from Anabaena Species PCC 7119. Journal of Biological Chemistry, 1999, 274, 33565-33570.	1.6	40
67	Title is missing!. Photosynthesis Research, 1999, 62, 241-250.	1.6	2
68	Photosensitized electron transfer reactions of cytochrome c4 from Pseudomonas stutzeri with flavins and methyl viologen. Inorganica Chimica Acta, 1998, 272, 109-114.	1.2	11
69	Title is missing!. Photosynthesis Research, 1998, 57, 93-100.	1.6	13
70	Solution Structure of Oxidized Cytochrome c6 from the Green Alga Monoraphidium braunii,. Biochemistry, 1998, 37, 4831-4843.	1.2	40
71	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.	1.0	43
72	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.	2.0	45

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73	From Cytochrome C6 to Plastocyanin. An Evolutionary Approach. , 1998, , 1499-1504.		2
74	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.	1.2	42
75	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.	1.1	63
76	Reduction of photosystem I by cytochrome c6 and plastocyanin: molecular recognition and reaction mechanism. Bioelectrochemistry, 1997, 42, 249-254.	1.0	5
77	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.	1.2	58
78	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.	1.3	5
79	Cytochromec6from the green algaMonoraphidium braunii. Crystallization and preminary diffraction studies. Acta Crystallographica Section D: Biological Crystallography, 1995, 51, 232-234.	2.5	7
80	Ab initio determination of the crystal structure of cytochrome c6 and comparison with plastocyanin. Structure, 1995, 3, 1159-1169.	1.6	146
81	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.	1.4	42
82	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.	1.4	38
83	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.	1.2	151
84	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
85	LASER FLASH-INDUCED PHOTOREDUCTION OF PHOTOSYNTHETIC FERREDOXINS AND FLAVODOXIN BY 5-DEAZARIBOFLAVIN AND BY A. Photochemistry and Photobiology, 1994, 60, 231-236.	1.3	10
86	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.	0.5	57
87	Cloning and correct expression inE. coliof thepetJ gene encoding cytochromec6fromSynechocystis6803. FEBS Letters, 1994, 347, 173-177.	1.3	41
88	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
89	Cytochrome c6 from Monoraphidium braunii. A cytochrome with an unusual heme axial coordination. FEBS Journal, 1993, 216, 329-341.	0.2	39
90	Synechocystis6803 plastocyanin isolated from both the cyanobacterium andE. colitransformed cells are identical. FEBS Letters, 1993, 319, 257-260.	1.3	37

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91	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.	1.3	41
92	Electron transfer reactions in both the oxidizing and reducing sites of photosystem I. Bioelectrochemistry, 1992, 28, 205-212.	1.0	0
93	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.	1.3	28
94	Flavin Laser Flash Photolysis Studies of the Electron Transfer Mechanism in Redox Proteins. , 1992, , 319-331.		0
95	Kinetics of electron transfer from thioredoxin reductase to thioredoxin. Biochemistry, 1991, 30, 2192-2195.	1.2	29
96	Laser flash photolysis studies of the kinetics of reduction of ferredoxins and ferredoxin-NADP+ reductases from Anabaena PCC 7119 and spinach: Electrostatic effects on intracomplex electron transfer. Archives of Biochemistry and Biophysics, 1991, 287, 351-358.	1.4	64
97	On the reaction mechanism of flavin-sensitized photoregulation of Monoraphidium braunii nitrate reductase. Journal of Photochemistry and Photobiology B: Biology, 1991, 10, 211-220.	1.7	5
98	Solar energy conversion from water photolysis by biological and chemical systems. Applied Biochemistry and Biotechnology, 1991, 30, 61-81.	1.4	9
99	Transient kinetics of flavin-photosensitized oxidation of reduced redox proteins. Comparison of c-type cytochromes and plastocyanins. FEBS Journal, 1991, 199, 239-243.	0.2	17
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	Steady-state and laser flash induced photoreduction of yeast glutathione reductase by 5-deazariboflavin and by a viologen analog: stabilization of flavin adenine dinucleotide semiquinone species by complexation. Biochemistry, 1990, 29, 6102-6107.	1.2	3
102	Flavin-mediated photoregulation of nitrate reductase. Bioelectrochemistry, 1989, 22, 355-364.	1.0	12
103	Flavin-mediated photoregulation of nitrate reductase. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 276, 355-364.	0.3	2
104	Laser flash photolysis studies of the kinetics of reduction of spinach and Clostridium ferredoxins by a viologen analog: electrostatically controlled nonproductive complex formation and differential reactivity among the iron-sulfur clusters. Biochemistry, 1989, 28, 6057-6065.	1.2	22
105	Coupling of Solar Energy to Hydrogen Peroxide Production in the Cyanobacterium <i>Anacystis nidulans</i>. Applied and Environmental Microbiology, 1989, 55, 483-487.	1.4	24
106	Hydrogen peroxide photoproduction sensitized with rose bengal with semicarbazide as the electron source. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 45, 341-353.	2.0	7
107	Hydrogen peroxide photoproduction by the semicarbazideâ€"tris(2,2â€²-bipyridine)ruthenium(II)â€"oxygen system. Journal of Photochemistry and Photobiology A: Chemistry, 1987, 40, 279-293.	2.0	13
108	Light-driven hydrogen peroxide production as a way to solar energy conversion. Bioelectrochemistry, 1987, 18, 71-78.	1.0	10

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109	POTENTIOMETRIC and LASER FLASH PHOTOLYSIS STUDIES OF THE pH DEPENDENCE OF HYDROGEN PEROXIDE PRODUCTION BY THE SEMICARBAZIDE/LUMIFLAVIN/OXYGEN PHOTOSYSTEM. Photochemistry and Photobiology, 1987, 46, 965-970.	1.3	7
110	FLAVINâ€MEDIATED PRODUCTION OF HYDROGEN PEROXIDE IN PHOTOELECTROCHEMICAL CELLS. Photochemistry and Photobiology, 1984, 40, 395-398.	1.3	8
111	Carbon dioxide-mediated decomposition of hydrogen peroxide in alkaline solutions. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 249.	1.0	14
112	Plastocyanin and Cytochromec6: the Soluble Electron Carriers between the Cytochromeb6f Complex and Photosystem I. , 0, , 181-200.		11