Juan B Arellano

List of Publications by Year
in descending order

73 papers	1,809 citations	279798 23 h-index	289244 40 g-index
73 all docs	73 docs citations	73 times ranked	1969 citing authors

#	Article	IF	Citations
1	Efficient Energy Transfer from the Carotenoid S2 State in a Photosynthetic Light-Harvesting Complex. Biophysical Journal, 2001, 80, 923-930.	0.5	109
2	Copper and photosystem II: A controversial relationship. Physiologia Plantarum, 1995, 94, 174-180.	5.2	100
3	Copper(II) Inhibition of Electron Transfer through Photosystem II Studied by EPR Spectroscopy. Biochemistry, 1995, 34, 12747-12754.	2.5	92
4	Early Transcriptional Defense Responses in Arabidopsis Cell Suspension Culture under High-Light Conditions Â Â Â. Plant Physiology, 2011, 156, 1439-1456.	4.8	81
5	Excitation Energy Transfer Dynamics and Excited-State Structure in Chlorosomes of Chlorobium phaeobacteroides. Biophysical Journal, 2003, 84, 1161-1179.	0.5	77
6	Determination of the topography and biometry of chlorosomes by atomic force microscopy. Photosynthesis Research, 2002, 71, 83-90.	2.9	76
7	The structure and function of the LH2 (B800â€“850) complex from the purple photosynthetic bacterium Rhodopseudomonas acidophila strain 10050. Progress in Biophysics and Molecular Biology, 1997, 68, 1-27.	2.9	72
8	Internal Structure of Chlorosomes from Brown-Colored Chlorobium Species and the Role of Carotenoids in Their Assembly. Biophysical Journal, 2006, 91, 1433-1440.	0.5	68
9	Proline does not quench singlet oxygen: Evidence to reconsider its protective role in plants. Plant Physiology and Biochemistry, 2013, 64, 80-83.	5.8	66
10	Title is missing!. Photosynthesis Research, 1999, 60, 257-264.	2.9	62
11	The 1.49Ã... Resolution Crystal Structure of PsbQ from Photosystem II of Spinacia oleracea Reveals a PPII Structure in the N-terminal Region. Journal of Molecular Biology, 2005, 350, 1051-1060.	4.2	60
12	Evaluation of Laser In Situ Scattering Instrument for Measuring Concentration of Phytoplankton, Purple Sulfur Bacteria, and Suspended Inorganic Sediments in Lakes. Journal of Environmental Engineering, ASCE, 2001, 127, 1023-1030.	1.4	47
13	The donor side of Photosystem II as the copper-inhibitory binding site. Photosynthesis Research, 1995, 45, 127-134.	2.9	45
14	Programmed cell death activated by Rose Bengal in Arabidopsis thaliana cell suspension cultures requires functional chloroplasts. Journal of Experimental Botany, 2014, 65, 3081-3095.	4.8	41
15	Effect of Carotenoid Biosynthesis Inhibition on the Chlorosome Organization in Chlorobium phaeobacteroides Strain CL1401. Photochemistry and Photobiology, 2000, 71, 715-723.	2.5	39
16	Excitation energy transfer in chlorosomes of Chlorobium phaeobacteroides strain CL1401: the role of carotenoids. Photosynthesis Research, 2002, 71, 5-18.	2.9	35
17	Vegetable protein isolates. , 2009, , 383-419.		35
18	Excited state properties of aryl carotenoids. Physical Chemistry Chemical Physics, 2010, 12, 3112.	2.8	33

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19	Removal of nuclear contaminants and of non-specifically photosystem II-bound copper from photosystem II preparations. Physiologia Plantarum, 1994, 91, 369-374.	5.2	27
20	Temporal profile of the singlet oxygen emission endogenously produced by photosystem II reaction centre in an aqueous buffer. Photosynthesis Research, 2012, 112, 75-79.	2.9	27
21	Formation and geminate quenching of singlet oxygen in purple bacterial reaction center. Journal of Photochemistry and Photobiology B: Biology, 2007, 87, 105-112.	3.8	26
22	Thermodynamic characterization of the palm tree Roystonea regia peroxidase stability. Biochimie, 2008, 90, 1737-1749.	2.6	26
23	Î²-Carotene to bacteriochlorophyll c energy transfer in self-assembled aggregates mimicking chlorosomes. Chemical Physics, 2010, 373, 90-97.	1.9	26
24	Nanosecond Laser Photolysis Studies of Chlorosomes and Artificial Aggregates Containing Bacteriochlorophyll e: Evidence for the Proximity of Carotenoids and Bacteriochlorophyll a in Chlorosomes from Chlorobium phaeobacteroides strain CL1401Â¶. Photochemistry and Photobiology, 2000, 72, 669.	2.5	24
25	Estimation of Pigment Stoichiometries in Photosynthetic Systems of Purple Bacteria: Special Reference to the (Absence of) Second Carotenoid in LH2. Photochemistry and Photobiology, 1998, 68, 84-87.	2.5	22
26	Structural Analysis of the PsbQ Protein of Photosystem II by Fourier Transform Infrared and Circular Dichroic Spectroscopy and by Bioinformatic Methodsâ€. Biochemistry, 2003, 42, 1000-1007.	2.5	22
27	Structural and Functional Roles of Carotenoids in Chlorosomes. Journal of Bacteriology, 2013, 195, 1727-1734.	2.2	22
28	Title is missing!. Photosynthesis Research, 1998, 57, 175-181.	2.9	21
29	Signature pigments of green sulfur bacteria in lower Pleistocene deposits from the Banyoles lacustrine area (Spain). Journal of Paleolimnology, 2005, 34, 271-280.	1.6	21
30	Effect of carotenoid deficiency on cells and chlorosomes of Chlorobium phaeobacteroides. Archives of Microbiology, 2001, 175, 226-233.	2.2	20
31	Effect of Carotenoids and Monogalactosyl Diglyceride on Bacteriochlorophyll c Aggregates in Aqueous Buffer: Implications for the Self-assembly of ChlorosomesÂ¶. Photochemistry and Photobiology, 2004, 80, 572.	2.5	20
32	Thermal stability of peroxidase from Chamaerops excelsa palm tree at pH 3. International Journal of Biological Macromolecules, 2009, 44, 326-332.	7.5	20
33	Raman Spectroscopy Adds Complementary Detail to the High-Resolution X-Ray Crystal Structure of Photosynthetic PsbP from Spinacia oleracea. PLoS ONE, 2012, 7, e46694.	2.5	20
34	The Length of Esterifying Alcohol Affects the Aggregation Properties of Chlorosomal Bacteriochlorophylls. Photochemistry and Photobiology, 2008, 84, 1187-1194.	2.5	19
35	Solutions to decrease a systematic error related to AAPH addition in the fluorescence-based ORAC assay. Analytical Biochemistry, 2017, 519, 27-29.	2.4	19
36	Peroxynitrite inhibits electron transport on the acceptor side of higher plant photosystem II. Archives of Biochemistry and Biophysics, 2008, 473, 25-33.	3.0	17

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37	Hexanol-Induced Orderâ^'Disorder Transitions in Lamellar Self-Assembling Aggregates of Bacteriochlorophyll c in Chlorobium tepidum Chlorosomes. Langmuir, 2008, 24, 2035-2041.	3.5	16
38	Trolox, a Water-Soluble Analogue of Î±-Tocopherol, Photoprotects the Surface-Exposed Regions of the Photosystem II Reaction Center in Vitro. Is This Physiologically Relevant?. Biochemistry, 2011, 50, 8291-8301.	2.5	16
39	Substrate specificity of the Chamaerops excelsa palm tree peroxidase. A steady-state kinetic study. Journal of Molecular Catalysis B: Enzymatic, 2012, 74, 103-108.	1.8	14
40	Genotypic Variability on Grain Yield and Grain Nutritional Quality Characteristics of Wheat Grown under Elevated CO2 and High Temperature. Plants, 2021, 10, 1043.	3.5	13
41	Screening for Higher Grain Yield and Biomass among Sixty Bread Wheat Genotypes Grown under Elevated CO2 and High-Temperature Conditions. Plants, 2021, 10, 1596.	3.5	13
42	Effect of Carotenoid Biosynthesis Inhibition on the Chlorosome Organization in Chlorobium phaeobacteroides Strain CL1401. Photochemistry and Photobiology, 2000, 71, 715.	2.5	13
43	Bacteriochlorophyll e Monomers, but Not Aggregates, Sensitize Singlet Oxygen: Implications for a Self-photoprotection Mechanism in ChlorosomesÂ¶. Photochemistry and Photobiology, 2002, 76, 373.	2.5	13
44	Crystallization and preliminary crystallographic characterization of the extrinsic PsbP protein of photosystem II fromSpinacia oleracea. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 111-115.	0.7	12
45	Unprecedented pathway of reducing equivalents in a diflavin-linked disulfide oxidoreductase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12725-12730.	7.1	12
46	Multichannel flash spectroscopy of the reaction centers of wild-type and mutant Rhodobacter sphaeroides: bacteriochlorophyllB-mediated interaction between the carotenoid triplet and the special pair. Photochemistry and Photobiology, 2004, 79, 68-75.	2.5	12
47	Emissive Enhancement of the Singlet Oxygen Chemiluminescence Probe after Binding to Bovine Serum Albumin. Molecules, 2019, 24, 2422.	3.8	11
48	The single tryptophan of the PsbQ protein of photosystem II is at the end of a 4-Î±-helical bundle domain. FEBS Journal, 2003, 270, 3916-3927.	0.2	10
49	Facile method for spectroscopic examination of radical ions of hydrophilic carotenoids. Physical Chemistry Chemical Physics, 2009, 11, 6401.	2.8	10
50	Does singlet oxygen activate cell death in Arabidopsis cell suspension cultures?: Analysis of the early transcriptional defense responses to high light stress. Plant Signaling and Behavior, 2011, 6, 1937-1942.	2.4	10
51	Screening fungal endophytes from a wild grass for growth promotion in tritordeum, an agricultural cereal. Plant Science, 2021, 303, 110762.	3.6	10
52	Effect of Carotenoids and Monogalactosyl Diglyceride on Bacteriochlorophyll c Aggregates in Aqueous Buffer: Implications for the Self-assembly of ChlorosomesÂ¶. Photochemistry and Photobiology, 2004, 80, 572.	2.5	10
53	Self-assembly and energy transfer in artificial light-harvesting complexes of bacteriochlorophyllÂc with astaxanthin. Photosynthesis Research, 2012, 111, 193-204.	2.9	9
54	Structure and dynamics of the N-terminal loop of PsbQ from photosystem II of Spinacia oleracea. Biochemical and Biophysical Research Communications, 2006, 345, 287-291.	2.1	7

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55	Purification and structural stability of white Spanish broom (Cytisus multiflorus) peroxidase. International Journal of Biological Macromolecules, 2015, 72, 718-723.	7.5	7
56	Determination of copper in different chloroplast preparations. Plant and Soil, 1993, 154, 7-11.	3.7	6
57	Singlet oxygen triggers chloroplast rupture and cell death in the zeaxanthin epoxidase defective mutant aba1 of Arabidopsis thaliana under high light stress. Journal of Plant Physiology, 2017, 216, 188-196.	3.5	6
58	Chapter 12. Endogenous Singlet Oxygen Photosensitizers in Plants. Comprehensive Series in Photochemical and Photobiological Sciences, 2016, , 239-269.	0.3	6
59	Multichannel Flash Spectroscopy of the Reaction Centers of Wild-type and Mutant Rhodobacter sphaeroides: BacteriochlorophyllB-mediated Interaction Between the Carotenoid Triplet and the Special Pairâ€Â¶. Photochemistry and Photobiology, 2004, 79, 68.	2.5	6
60	Reaction Center of Photosystem II with No Peripheral Pigments in D2 Allows Secondary Electron Transfer in D1. Biochemistry, 2007, 46, 15027-15032.	2.5	5
61	Multichannel Flash Spectroscopy of the Reaction Centers of Wildâ€type and Mutant Rhodobacter sphaeroides: Bacteriochlorophyll_Bâ€mediated Interaction Between the Carotenoid Triplet and the Special Pair^{Â¶}^{â€}. Photochemistry and Photobiology, 2004, 79, 68-75.	2.5	4
62	Structural Stability of the PsbQ Protein of Higher Plant Photosystem IIâ€. Biochemistry, 2004, 43, 14171-14179.	2.5	4
63	The Role of Fungal Microbiome Components on the Adaptation to Salinity of Festuca rubra subsp. pruinosa. Frontiers in Plant Science, 2021, 12, 695717.	3.6	4
64	Theoretical and Experimental Considerations for a Rapid and High Throughput Measurement of Catalase In Vitro. Antioxidants, 2022, 11, 21.	5.1	4
65	Nanosecond Laser Photolysis Studies of Chlorosomes and Artificial Aggregates Containing Bacteriochlorophyll e: Evidence for the Proximity of Carotenoids and Bacteriochlorophyll a in Chlorosomes from Chlorobium phaeobacteroides strain CL1401Â¶. Photochemistry and Photobiology, 2007, 72, 669-675.	2.5	3
66	Removal of nuclear contaminants and of non-specifically photosystem II-bound copper from photosystem II preparations. Physiologia Plantarum, 1994, 91, 369-374.	5.2	2
67	Surfing the Hyperbola Equations of the Steady-State Farquharâ€“von Caemmererâ€“Berry C3 Leaf Photosynthesis Model: What Can a Theoretical Analysis of Their Oblique Asymptotes and Transition Points Tell Us?. Bulletin of Mathematical Biology, 2020, 82, 3.	1.9	2
68	Effect of Carotenoids and Monogalactosyl Diglyceride on Bacteriochlorophyll c Aggregates in Aqueous Buffer: Implications for the Selfâ€assembly of Chlorosomes^{Â¶}. Photochemistry and Photobiology, 2004, 80, 572-578.	2.5	1
69	Impact of Water Deficit on Primary Metabolism at the Whole Plant Level in Bread Wheat Grown under Elevated CO2 and High Temperature at Different Developmental Stages. , 0, , .		1
70	Bacteriochlorophyll e Monomers, but Not Aggregates, Sensitize Singlet Oxygen: Implications for a Self-photoprotection Mechanism in ChlorosomesÂ¶. Photochemistry and Photobiology, 2007, 76, 373-380.	2.5	0
71	Femtosecond Laser Disruption of Filamentous Cyanobacteria Unveils Dissimilar Cellular Stability Between Heterocysts and Vegetative Cells. Photochemistry and Photobiology, 2008, 84, 1576-1582.	2.5	0
72	The ORAC Assay: Mathematical Analysis of the Rate Equations and Some Practical Considerations. International Journal of Chemical Kinetics, 2017, 49, 409-418.	1.6	0

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73	Thermoluminescence as a Tool for Abiotic Stress Detection: Studies of Cu-Toxicity on PS II. , 1998, , 2653-2656.		0