

# Miguel Alfonso

## List of Publications by Year in descending order

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36  
papers

1,109  
citations

394421

19  
h-index

395702

33  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Core Antenna Complexes, CP43 and CP47, of Higher Plant Photosystem II. Spectral Properties, Pigment Stoichiometry, and Amino Acid Composition. <i>Biochemistry</i> , 1994, 33, 10494-10500.	2.5	116
2	Unusual tolerance to high temperatures in a new herbicide-resistant D1 mutant from <i>Glycine max</i> (L.) Merr. cell cultures deficient in fatty acid desaturation. <i>Planta</i> , 2001, 212, 573-582.	3.2	94
3	Redox Control of psbA Gene Expression in the Cyanobacterium <i>Synechocystis</i> PCC 6803. Involvement of the Cytochrome b6/fComplex. <i>Plant Physiology</i> , 2000, 122, 505-516.	4.8	89
4	Contribution of the different omega-3 fatty acid desaturase genes to the cold response in soybean. <i>Journal of Experimental Botany</i> , 2012, 63, 4973-4982.	4.8	81
5	Exciton Level Structure and Dynamics in the CP47 Antenna Complex of Photosystem II. <i>The Journal of Physical Chemistry</i> , 1994, 98, 7717-7724.	2.9	64
6	The CP43 Core Antenna Complex of Photosystem II Possesses Two Quasi-Degenerate and Weakly Coupled Qy-Trap States. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11805-11815.	2.6	58
7	Copper effect on the protein composition of photosystem II. <i>Physiologia Plantarum</i> , 2000, 110, 551-557.	5.2	55
8	A light-sensitive mechanism differently regulates transcription and transcript stability of $\omega$ 3 fatty-acid desaturases (FAD3, FAD7 and FAD8) in soybean photosynthetic cell suspensions. <i>FEBS Letters</i> , 2006, 580, 4934-4940.	2.8	51
9	Non-redundant Contribution of the Plastidial FAD8 $\omega$ -3 Desaturase to Glycerolipid Unsaturation at Different Temperatures in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2015, 8, 1599-1611.	8.3	48
10	Redox Control of ntcA Gene Expression in <i>Synechocystis</i> sp. PCC 6803. Nitrogen Availability and Electron Transport Regulate the Levels of the NtcA Protein. <i>Plant Physiology</i> , 2001, 125, 969-981.	4.8	47
11	Transcriptional Regulation of Stearoyl-Acyl Carrier Protein Desaturase Genes in Response to Abiotic Stresses Leads to Changes in the Unsaturated Fatty Acids Composition of Olive Mesocarp. <i>Frontiers in Plant Science</i> , 2019, 10, 251.	3.6	43
12	Identification and subcellular localization of the soybean copper P1B-ATPase GmHMA8 transporter. <i>Journal of Structural Biology</i> , 2007, 158, 46-58.	2.8	40
13	Induced New Mutation of D1 Serine-268 in Soybean Photosynthetic Cell Cultures Produced Atrazine Resistance, Increased Stability of S2QB- and S3QB- States, and Increased Sensitivity to Light Stress. <i>Plant Physiology</i> , 1996, 112, 1499-1508.	4.8	38
14	Expression of the psbA gene during photoinhibition and recovery in <i>Synechocystis</i> PCC 6714: inhibition and damage of transcriptional and translational machinery prevent the restoration of photosystem II activity. <i>Plant Molecular Biology</i> , 1997, 34, 1-13.	3.9	34
15	In Situ Molecular Identification of the Plastid $\omega$ 3 Fatty Acid Desaturase FAD7 from Soybean: Evidence of Thylakoid Membrane Localization. <i>Plant Physiology</i> , 2007, 145, 1336-1344.	4.8	32
16	Redox control of psbA expression in cyanobacteria <i>Synechocystis</i> strains. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999, 48, 104-113.	3.8	31
17	The GmFAD7 gene family from soybean: identification of novel genes and tissue-specific conformations of the FAD7 enzyme involved in desaturase activity. <i>Journal of Experimental Botany</i> , 2010, 61, 3371-3384.	4.8	31
18	Identification of target genes and processes involved in erucic acid accumulation during seed development in the biodiesel feedstock <i>Pennycress</i> ( <i>Thlaspi arvense</i> L.). <i>Journal of Plant Physiology</i> , 2017, 208, 7-16.	3.5	26

#	ARTICLE	IF	CITATIONS
19	Tissue Distribution and Specific Contribution of Arabidopsis FAD7 and FAD8 Plastid Desaturases to the JA- and ABA-Mediated Cold Stress or Defense Responses. <i>Plant and Cell Physiology</i> , 2019, 60, 1025-1040.	3.1	22
20	Increased tolerance to thermal inactivation of oxygen evolution in spinach Photosystem II membranes by substitution of the extrinsic 33-kDa protein by its homologue from a thermophilic cyanobacterium. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1554, 29-35.	1.0	14
21	Photoinhibition and recovery in a herbicide-resistant mutant from <i>Glycine max</i> (L.) Merr. cell cultures deficient in fatty acid unsaturation. <i>Planta</i> , 2004, 219, 428-39.	3.2	12
22	Pigment stoichiometry of the Photosystem II reaction center from higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1187, 187-190.	1.0	9
23	Spin label electron paramagnetic resonance study in thylakoid membranes from a new herbicide-resistant D1 mutant from soybean cell cultures deficient in fatty acid desaturation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1515, 55-63.	2.6	9
24	A temporal regulatory mechanism controls the different contribution of endoplasmic reticulum and plastidial $\Delta^3$ desaturases to trienoic fatty acid content during leaf development in soybean ( <i>Glycine</i> ) Tj ETQq0 0 0.0 BT /Overlock 10 T	0.0	0
25	Changes in photosynthetic electron transfer and state transitions in an herbicide-resistant D1 mutant from soybean cell cultures. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 694-702.	1.0	7
26	Effect of the pH on the absorption spectrum of the isolated D1-D2-cytochrome b559 complex of photosystem II. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999, 50, 129-136.	3.8	6
27	Editorial: Molecular Basis of the Response of Photosynthetic Apparatus to Light and Temperature Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 288.	3.6	6
28	Functional analysis of $\Delta^2$ -ketoacyl-CoA synthase from biofuel feedstock <i>Thlaspi arvense</i> reveals differences in the triacylglycerol biosynthetic pathway among Brassicaceae. <i>Plant Molecular Biology</i> , 2020, 104, 283-296.	3.9	6
29	Agronomic potential of two European pennycress accessions as a winter crop under European Mediterranean conditions. <i>Industrial Crops and Products</i> , 2021, 159, 113107.	5.2	6
30	Improving soybean seed oil without poor agronomics. <i>Journal of Experimental Botany</i> , 2020, 71, 6857-6860.	4.8	6
31	Different Cis-Regulatory Elements Control the Tissue-Specific Contribution of Plastid $\Delta^3$ Desaturases to Wounding and Hormone Responses. <i>Frontiers in Plant Science</i> , 2021, 12, 727292.	3.6	6
32	Different kinetics of photoinactivation of photosystem I-mediated electron transport and P700 in isolated thylakoid membranes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2003, 69, 41-48.	3.8	5
33	Isolation and Purification of CP43 and CP47 Photosystem II Proximal Antenna Complexes from Plants. <i>Methods in Molecular Biology</i> , 2011, 684, 105-112.	0.9	5
34	Isolation of CP43 and CP47 Photosystem II Proximal Antenna Complexes From Plants. , 2004, 274, 129-136.		2
35	Copper effect on the protein composition of photosystem II. <i>Physiologia Plantarum</i> , 2000, 110, 551-557.	5.2	1
36	Role of Lipids and Fatty Acids in the Maintenance of Photosynthesis and the Assembly of Photosynthetic Complexes During Photosystem II Turnover. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 395-427.	1.0	0