

Juan de Dios Alche

List of Publications by Citations

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103
papers

1,800
citations

24
h-index

37
g-index

111
ext. papers

2,179
ext. citations

4.2
avg, IF

5.06
L-index

#	Paper	IF	Citations
103	Current overview of S-nitrosoglutathione (GSNO) in higher plants. <i>Frontiers in Plant Science</i> , 2013 , 4, 126	6.2	126
102	Cellular localization of ROS and NO in olive reproductive tissues during flower development. <i>BMC Plant Biology</i> , 2010 , 10, 36	5.3	83
101	NADPH oxidase activity in pollen tubes is affected by calcium ions, signaling phospholipids and Rac/Rop GTPases. <i>Journal of Plant Physiology</i> , 2012 , 169, 1654-63	3.6	73
100	Ole e I: epitope mapping, cross-reactivity with other Oleaceae pollens and ultrastructural localization. <i>International Archives of Allergy and Immunology</i> , 1994 , 104, 160-70	3.7	58
99	A concise appraisal of lipid oxidation and lipoxidation in higher plants. <i>Redox Biology</i> , 2019 , 23, 101136	11.3	57
98	An olive pollen protein with allergenic activity, Ole e 10, defines a novel family of carbohydrate-binding modules and is potentially implicated in pollen germination. <i>Biochemical Journal</i> , 2005 , 390, 77-84	3.8	57
97	The K ⁺ /H ⁺ antiporter LeNHX2 increases salt tolerance by improving K ⁺ homeostasis in transgenic tomato. <i>Plant, Cell and Environment</i> , 2013 , 36, 2135-49	8.4	54
96	Ole e 1, the major allergen from olive (<i>Olea europaea</i> L.) pollen, increases its expression and is released to the culture medium during in vitro germination. <i>Plant and Cell Physiology</i> , 2004 , 45, 1149-57	4.9	54
95	Expression of nir, nor and nos denitrification genes from <i>Bradyrhizobium japonicum</i> in soybean root nodules. <i>Physiologia Plantarum</i> , 2004 , 120, 205-211	4.6	50
94	Nanovesicles are secreted during pollen germination and pollen tube growth: a possible role in fertilization. <i>Molecular Plant</i> , 2014 , 7, 573-7	14.4	48
93	Temperature and pyoverdine-mediated iron acquisition control surface motility of <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2007 , 9, 1842-50	5.2	48
92	NADPH Oxidase-Dependent Superoxide Production in Plant Reproductive Tissues. <i>Frontiers in Plant Science</i> , 2016 , 7, 359	6.2	44
91	Identification and localization of a caleosin in olive (<i>Olea europaea</i> L.) pollen during in vitro germination. <i>Journal of Experimental Botany</i> , 2010 , 61, 1537-46	7	39
90	ReprOlive: a database with linked data for the olive tree (<i>Olea europaea</i> L.) reproductive transcriptome. <i>Frontiers in Plant Science</i> , 2015 , 6, 625	6.2	37
89	Thiol-based redox regulation in sexual plant reproduction: new insights and perspectives. <i>Frontiers in Plant Science</i> , 2013 , 4, 465	6.2	37
88	Effects of Virgin Olive Oils Differing in Their Bioactive Compound Contents on Biomarkers of Oxidative Stress and Inflammation in Healthy Adults: A Randomized Double-Blind Controlled Trial. <i>Nutrients</i> , 2019 , 11,	6.7	32
87	Proteomics profiling reveals novel proteins and functions of the plant stigma exudate. <i>Journal of Experimental Botany</i> , 2013 , 64, 5695-705	7	32

86	The influence of abscisic acid on the ethylene biosynthesis pathway in the functioning of the flower abscission zone in <i>Lupinus luteus</i> . <i>Journal of Plant Physiology</i> , 2016 , 206, 49-58	3.6	31
85	Biochemical characterization and cellular localization of 11S type storage proteins in olive (<i>Olea europaea</i> L.) seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 5562-70	5.7	31
84	Pollen from different olive tree cultivars contains varying amounts of the major allergen Ole e 1. <i>International Archives of Allergy and Immunology</i> , 2003 , 131, 164-73	3.7	31
83	Effects of Virgin Olive Oils Differing in Their Bioactive Compound Contents on Metabolic Syndrome and Endothelial Functional Risk Biomarkers in Healthy Adults: A Randomized Double-Blind Controlled Trial. <i>Nutrients</i> , 2018 , 10,	6.7	29
82	Characterization of profilin polymorphism in pollen with a focus on multifunctionality. <i>PLoS ONE</i> , 2012 , 7, e30878	3.7	28
81	Narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) ßconglutin proteins modulate the insulin signaling pathway as potential type 2 diabetes treatment and inflammatory-related disease amelioration. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1600819	5.9	26
80	Patterns of ROS Accumulation in the Stigmas of Angiosperms and Visions into Their Multi-Functionality in Plant Reproduction. <i>Frontiers in Plant Science</i> , 2016 , 7, 1112	6.2	26
79	Olive seed protein bodies store degrading enzymes involved in mobilization of oil bodies. <i>Journal of Experimental Botany</i> , 2014 , 65, 103-15	7	23
78	Electrophoretic profiling and immunocytochemical detection of pectins and arabinogalactan proteins in olive pollen during germination and pollen tube growth. <i>Annals of Botany</i> , 2013 , 112, 503-13	4.1	22
77	Structure and functional features of olive pollen pectin methylesterase using homology modeling and molecular docking methods. <i>Journal of Molecular Modeling</i> , 2012 , 18, 4965-84	2	21
76	Analysis of the effects of polymorphism on pollen profilin structural functionality and the generation of conformational, T- and B-cell epitopes. <i>PLoS ONE</i> , 2013 , 8, e76066	3.7	21
75	<i>Burkholderia phymatum</i> improves salt tolerance of symbiotic nitrogen fixation in <i>Phaseolus vulgaris</i> . <i>Plant and Soil</i> , 2013 , 367, 673-685	4.2	20
74	Generation of nitric oxide by olive (<i>Olea europaea</i> L.) pollen during in vitro germination and assessment of the S-nitroso- and nitro-proteomes by computational predictive methods. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 68, 23-37	5	20
73	Development of the cotyledon cells during olive (<i>Olea europaea</i> L.) in vitro seed germination and seedling growth. <i>Protoplasma</i> , 2011 , 248, 751-65	3.4	20
72	Olive cultivar origin is a major cause of polymorphism for Ole e 1 pollen allergen. <i>BMC Plant Biology</i> , 2008 , 8, 10	5.3	19
71	The Pollen Coat Proteome: At the Cutting Edge of Plant Reproduction. <i>Proteomes</i> , 2016 , 4,	4.6	18
70	Characterization of narrow-leaf lupin (<i>Lupinus angustifolius</i> L.) recombinant major allergen IgE-binding proteins and the natural ßconglutin counterparts in sweet lupin seed species. <i>Food Chemistry</i> , 2018 , 244, 60-70	8.5	17
69	The plant stigma exudate: a biochemically active extracellular environment for pollen germination?. <i>Plant Signaling and Behavior</i> , 2014 , 9, e28274	2.5	17

68	Characterization of olive seed storage proteins. <i>Acta Physiologiae Plantarum</i> , 2007 , 29, 439-444	2.6	17
67	Analysis of the denitrification pathway and greenhouse gases emissions in Bradyrhizobium sp. strains used as biofertilizers in South America. <i>Journal of Applied Microbiology</i> , 2019 , 127, 739-749	4.7	16
66	Screening of Ole e 1 polymorphism among olive cultivars by peptide mapping and N-glycopeptide analysis. <i>Proteomics</i> , 2010 , 10, 953-62	4.8	16
65	Ole e 13 is the unique food allergen in olive: Structure-functional, substrates docking, and molecular allergenicity comparative analysis. <i>Journal of Molecular Graphics and Modelling</i> , 2016 , 66, 26-40 ^{2.8}	3.8	15
64	Nutritional profile and nutraceutical components of olive (L.) seeds. <i>Journal of Food Science and Technology</i> , 2019 , 56, 4359-4370	3.3	15
63	Generation of Superoxide by OeRbohH, a NADPH Oxidase Activity During Olive (L.) Pollen Development and Germination. <i>Frontiers in Plant Science</i> , 2019 , 10, 1149	6.2	15
62	Ex vivo and in vitro assessment of anti-inflammatory activity of seed Lectin proteins from <i>Lupinus angustifolius</i> . <i>Journal of Functional Foods</i> , 2018 , 40, 510-519	5.1	14
61	Olive pollen profilin (Ole e 2 allergen) co-localizes with highly active areas of the actin cytoskeleton and is released to the culture medium during in vitro pollen germination. <i>Journal of Microscopy</i> , 2008 , 231, 332-41	1.9	14
60	Immunocytochemical localization of allergenic protein (Ole e I) in the endoplasmic reticulum of the developing pollen grain of olive (<i>Olea europaea</i> L.). <i>Planta</i> , 1995 , 196, 558	4.7	14
59	Glutathione redox state plays a key role in flower development and pollen vigour. <i>Journal of Experimental Botany</i> , 2020 , 71, 730-741	7	14
58	Automated identification of reference genes based on RNA-seq data. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 65	4.1	13
57	Structural functionality, catalytic mechanism modeling and molecular allergenicity of phenylcoumaran benzylic ether reductase, an olive pollen (Ole e 12) allergen. <i>Journal of Computer-Aided Molecular Design</i> , 2013 , 27, 873-95	4.2	13
56	Identification of novel superoxide dismutase isoenzymes in the olive (<i>Olea europaea</i> L.) pollen. <i>BMC Plant Biology</i> , 2018 , 18, 114	5.3	11
55	Localization of transcripts corresponding to the major allergen from olive pollen (Ole e I) by electron microscopic non-radioactive in situ RT-PCR. <i>Micron</i> , 2002 , 33, 33-7	2.3	11
54	Developmental role of the tomato Mediator complex subunit MED18 in pollen ontogeny. <i>Plant Journal</i> , 2018 , 96, 300-315	6.9	10
53	Identification and immunolocalization of superoxide dismutase isoenzymes of olive pollen. <i>Physiologia Plantarum</i> , 1998 , 104, 772-776	4.6	10
52	Disruption of the Auxin Gradient in the Abscission Zone Area Evokes Asymmetrical Changes Leading to Flower Separation in Yellow Lupine. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
51	Biogenesis of protein bodies during legumin accumulation in developing olive (<i>Olea europaea</i> L.) seed. <i>Protoplasma</i> , 2016 , 253, 517-30	3.4	9

50	Endoplasmic reticulum as a storage site for allergenic proteins in pollen grains of several Oleaceae. <i>Protoplasma</i> , 1995 , 187, 111-116	3.4	9
49	Narrow-Leafed Lupin (L.) Seeds Gamma-Conglutin is an Anti-Inflammatory Protein Promoting Insulin Resistance Improvement and Oxidative Stress Amelioration in PANC-1 Pancreatic Cell-Line. <i>Antioxidants</i> , 2019 , 9,	7.1	9
48	Insight into the cellular effects of nitrated phospholipids: Evidence for pleiotropic mechanisms of action. <i>Free Radical Biology and Medicine</i> , 2019 , 144, 192-202	7.8	8
47	Analysis of the pollen allergen content of twelve olive cultivars grown in Portugal. <i>Aerobiologia</i> , 2013 , 29, 513-521	2.4	8
46	Abnormal spermatid formation in the presence of the parasitic B(24) chromosome in the grasshopper <i>Eyprepocnemis plorans</i> . <i>Sexual Development</i> , 2009 , 3, 284-9	1.6	8
45	Ubiquitin and ubiquitin-conjugated proteins in the olive (<i>olea europaea</i> L.) pollen. <i>Sexual Plant Reproduction</i> , 2000 , 12, 285-291		8
44	Narrow-Leafed Lupin Main Allergen EConglutin (Lup an 1) Detection and Quantification Assessment in Natural and Processed Foods. <i>Foods</i> , 2019 , 8,	4.9	7
43	A novel multiplex method for the simultaneous detection and relative quantitation of pollen allergens. <i>Electrophoresis</i> , 2012 , 33, 1367-74	3.6	7
42	Peroxisomal Localization of CuZn Superoxide Dismutase in the Male Reproductive Tissues of the Olive Tree. <i>Microscopy and Microanalysis</i> , 2012 , 18, 33-34	0.5	7
41	Calcium in electron-dense globoids during pollen grain maturation in <i>Chlorophytum elatum</i> R.Br.. <i>Planta</i> , 1997 , 203, 413-421	4.7	7
40	Cellular Approach to the Study of Androgenesis in Maize Anthers: Immunocytochemical Evidence of the Involvement of the Ubiquitin Degradative Pathway in Androgenesis Induction. <i>Journal of Plant Physiology</i> , 2000 , 156, 146-155	3.6	7
39	Affinity chromatographic purification of antibodies to a biotinylated fusion protein expressed in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 1998 , 12, 138-43	2	7
38	Cytochemical features common to nucleoli and cytoplasmic nucleoloids of <i>Olea europaea</i> meiocytes: detection of rRNA by in situ hybridization. <i>Journal of Cell Science</i> , 1994 , 107, 621-629	5.3	7
37	The NUTRAOLEOUM Study, a randomized controlled trial, for achieving nutritional added value for olive oils. <i>BMC Complementary and Alternative Medicine</i> , 2016 , 16, 404	4.7	7
36	TransFlow: a modular framework for assembling and assessing accurate de novo transcriptomes in non-model organisms. <i>BMC Bioinformatics</i> , 2018 , 19, 416	3.6	7
35	Narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) seed Econgglutins reverse the induced insulin resistance in pancreatic cells. <i>Food and Function</i> , 2018 , 9, 5176-5188	6.1	7
34	Spatio-temporal localization of LIBOP following early events of floral abscission in yellow lupine. <i>Protoplasma</i> , 2019 , 256, 1173-1183	3.4	6
33	Identification of olive pollen allergens using a fluorescence-based 2D multiplex method. <i>Electrophoresis</i> , 2015 , 36, 1043-50	3.6	6

32	Whole-organ analysis of calcium behaviour in the developing pistil of olive (<i>Olea europaea</i> L.) as a tool for the determination of key events in sexual plant reproduction. <i>BMC Plant Biology</i> , 2011 , 11, 150	5.3	6
31	Narrow Leafed Lupin Beta-Conglutin Proteins Epitopes Identification and Molecular Features Analysis Involved in Cross-Allergenicity to Peanut and Other Legumes. <i>Genomics and Computational Biology</i> , 2016 , 2, 29		6
30	A protocol for protein extraction from lipid-rich plant tissues suitable for electrophoresis. <i>Methods in Molecular Biology</i> , 2014 , 1072, 85-91	1.4	5
29	Immunogold probes for light and electron microscopic localization of Ole e I in several Oleaceae pollens. <i>Journal of Histochemistry and Cytochemistry</i> , 1996 , 44, 151-8	3.4	5
28	First draft genome assembly of the Argane tree(). <i>F1000Research</i> , 2018 , 7, 1310	3.6	5
27	Ethylene-dependent effects on generative organ abscission of <i>Lupinus luteus</i> . <i>Acta Societatis Botanicorum Poloniae</i> , 2017 , 86,	1.5	5
26	Identification and Assessment of the Potential Allergenicity of 7S Vicilins in Olive (<i>Olea europaea</i> L.) Seeds. <i>BioMed Research International</i> , 2016 , 2016, 4946872	3	5
25	Identification and Functional Annotation of Genes Differentially Expressed in the Reproductive Tissues of the Olive Tree (L.) through the Generation of Subtractive Libraries. <i>Frontiers in Plant Science</i> , 2017 , 8, 1576	6.2	4
24	First draft genome assembly of the Argane tree(<i>Argania spinosa</i>). <i>F1000Research</i> , 2018 , 7, 1310	3.6	4
23	Differential expression of genes in olive leaves and buds of ON- versus OFF-crop trees. <i>Scientific Reports</i> , 2020 , 10, 15762	4.9	4
22	Occasional paternal inheritance of the germline-restricted chromosome in songbirds		4
21	-nitroso- and nitro- proteomes in the olive (L.) pollen. Predictive experimental data by nano-LC-MS. <i>Data in Brief</i> , 2017 , 15, 474-477	1.2	3
20	Fluorochromes for detection of callose in meiocytes of olive (<i>Olea europaea</i> L.). <i>Biotechnic and Histochemistry</i> , 1997 , 72, 285-90	1.8	3
19	Occasional paternal inheritance of the germline-restricted chromosome in songbirds.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
18	Identification and in silico Analysis of Glutathione Reductase Transcripts Expressed in Olive (<i>Olea europaea</i> L.) Pollen and Pistil. <i>Lecture Notes in Computer Science</i> , 2017 , 185-195	0.9	2
17	Chip-based capillary electrophoresis profiling of olive pollen extracts used for allergy diagnosis and immunotherapy. <i>Electrophoresis</i> , 2014 , 35, 2681-5	3.6	2
16	Heterologously expressed polypeptide from the yeast meiotic gene HOP1 binds preferentially to yeast DNA. <i>Protein Expression and Purification</i> , 1999 , 16, 251-60	2	2
15	Identification of Distinctive Variants of the Olive Pollen Allergen Ole e 5 (Cu,Zn Superoxide Dismutase) throughout the Analysis of the Olive Pollen Transcriptome. <i>Lecture Notes in Computer Science</i> , 2015 , 460-470	0.9	2

14	Histological Features of the Olive Seed and Presence of 7S-Type Seed Storage Proteins as Hallmarks of the Olive Fruit Development. <i>Frontiers in Plant Science</i> , 2018 , 9, 1481	6.2	2
13	Differential expression and sequence polymorphism of the olive pollen allergen Ole e 1 in two Iranian cultivars. <i>Iranian Journal of Allergy, Asthma and Immunology</i> , 2013 , 12, 18-28	1.1	2
12	Identification of seed storage proteins as the major constituents of the extra virgin olive oil proteome. <i>Food Chemistry: X</i> , 2020 , 7, 100099	4.7	1
11	Bioinformatic Prediction of S-Nitrosylation Sites in Large Protein Datasets. <i>Methods in Molecular Biology</i> , 2018 , 1747, 241-250	1.4	1
10	Identification and in silico Analysis of NADPH Oxidase Homologues Involved in Allergy from an Olive Pollen Transcriptome. <i>Lecture Notes in Computer Science</i> , 2015 , 450-459	0.9	1
9	Pollen Allergenicity is Highly Dependent on the Plant Genetic Background: The Variety/Cultivar Issues 2012 ,		1
8	Detection and Quantitation of Olive Pollen Allergen Isoforms Using 2-D Western Blotting 2012 ,		1
7	Systematic and Phylogenetic Analysis of the Ole e 1 Pollen Protein Family Members in Plants 2011 ,		1
6	The acceleration of yellow lupine flower abscission by jasmonates is accompanied by lipid-related events in abscission zone cells.. <i>Plant Science</i> , 2022 , 316, 111173	5.3	1
5	Automatic Workflow for the Identification of Constitutively-Expressed Genes Based on Mapped NGS Reads. <i>Lecture Notes in Computer Science</i> , 2016 , 403-414	0.9	1
4	A comprehensive dataset of the extra virgin olive oil (EVOO) proteome. <i>Data in Brief</i> , 2021 , 35, 106822	1.2	0
3	Structural and Functional Features of Glutathione Reductase Transcripts from Olive (<i>Olea europaea</i> L.) Seeds. <i>Lecture Notes in Computer Science</i> , 2019 , 178-191	0.9	
2	Transcriptome-Based Identification of a Seed Olive Legumin (11S Globulin). Characterization of Subunits, 3D Modelling and Molecular Assessment of Allergenicity. <i>Lecture Notes in Computer Science</i> , 2016 , 59-70	0.9	
1	Cell Localization of DPI-Dependent Production of Superoxide in Reproductive Tissues of the Olive Tree (<i>Olea europaea</i> L.). <i>Oxygen</i> , 2022 , 2, 79-90		