

Juan de Dios Alche

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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 |
| 102 | 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 |
| 101 | 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 | | |
| 100 | A comprehensive dataset of the extra virgin olive oil (EVOO) proteome. <i>Data in Brief</i> , 2021 , 35, 106822 | 1.2 | 0 |
| 99 | 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 |
| 98 | 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 |
| 97 | 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 |
| 96 | 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 |
| 95 | 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 |
| 94 | Spatio-temporal localization of LlBOP following early events of floral abscission in yellow lupine. <i>Protoplasma</i> , 2019 , 256, 1173-1183 | 3.4 | 6 |
| 93 | 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 |
| 92 | A concise appraisal of lipid oxidation and lipoxidation in higher plants. <i>Redox Biology</i> , 2019 , 23, 101136 | 11.3 | 57 |
| 91 | 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 |
| 90 | Nutritional profile and nutraceutical components of olive (L.) seeds. <i>Journal of Food Science and Technology</i> , 2019 , 56, 4359-4370 | 3.3 | 15 |
| 89 | 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 |
| 88 | 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 |
| 87 | 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 | |

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| 86 | 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 |
| 85 | Bioinformatic Prediction of S-Nitrosylation Sites in Large Protein Datasets. <i>Methods in Molecular Biology</i> , 2018 , 1747, 241-250 | 1.4 | 1 |
| 84 | Ex vivo and in vitro assessment of anti-inflammatory activity of seed β conglutin proteins from <i>Lupinus angustifolius</i> . <i>Journal of Functional Foods</i> , 2018 , 40, 510-519 | 5.1 | 14 |
| 83 | Characterization of narrow-leaf lupin (<i>Lupinus angustifolius</i> L.) recombinant major allergen IgE-binding proteins and the natural β conglutin counterparts in sweet lupin seed species. <i>Food Chemistry</i> , 2018 , 244, 60-70 | 8.5 | 17 |
| 82 | 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 |
| 81 | Developmental role of the tomato Mediator complex subunit MED18 in pollen ontogeny. <i>Plant Journal</i> , 2018 , 96, 300-315 | 6.9 | 10 |
| 80 | 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 |
| 79 | First draft genome assembly of the Argane tree(). <i>F1000Research</i> , 2018 , 7, 1310 | 3.6 | 5 |
| 78 | First draft genome assembly of the Argane tree(<i>Argania spinosa</i>). <i>F1000Research</i> , 2018 , 7, 1310 | 3.6 | 4 |
| 77 | 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 |
| 76 | 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 |
| 75 | Narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) seed β conglutins reverse the induced insulin resistance in pancreatic cells. <i>Food and Function</i> , 2018 , 9, 5176-5188 | 6.1 | 7 |
| 74 | 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 |
| 73 | Narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) β conglutin 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 |
| 72 | -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 |
| 71 | Automated identification of reference genes based on RNA-seq data. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 65 | 4.1 | 13 |
| 70 | 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 |
| 69 | 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 |

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|----|--|------|----|
| 68 | Ethylene-dependent effects on generative organ abscission of <i>Lupinus luteus</i> . <i>Acta Societatis Botanicorum Poloniae</i> , 2017 , 86, | 1.5 | 5 |
| 67 | 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 |
| 66 | 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 |
| 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 | 3.8 | 15 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 | |
| 61 | 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 |
| 60 | The Pollen Coat Proteome: At the Cutting Edge of Plant Reproduction. <i>Proteomes</i> , 2016 , 4, | 4.6 | 18 |
| 59 | NADPH Oxidase-Dependent Superoxide Production in Plant Reproductive Tissues. <i>Frontiers in Plant Science</i> , 2016 , 7, 359 | 6.2 | 44 |
| 58 | 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 |
| 57 | 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 |
| 56 | Identification of olive pollen allergens using a fluorescence-based 2D multiplex method. <i>Electrophoresis</i> , 2015 , 36, 1043-50 | 3.6 | 6 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |

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| 50 | The plant stigma exudate: a biochemically active extracellular environment for pollen germination?. <i>Plant Signaling and Behavior</i> , 2014 , 9, e28274 | 2.5 | 17 |
| 49 | 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 |
| 48 | 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 |
| 47 | Burkholderia phymatum improves salt tolerance of symbiotic nitrogen fixation in Phaseolus vulgaris. <i>Plant and Soil</i> , 2013 , 367, 673-685 | 4.2 | 20 |
| 46 | 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 |
| 45 | 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 |
| 44 | Proteomics profiling reveals novel proteins and functions of the plant stigma exudate. <i>Journal of Experimental Botany</i> , 2013 , 64, 5695-705 | 7 | 32 |
| 43 | Analysis of the pollen allergen content of twelve olive cultivars grown in Portugal. <i>Aerobiologia</i> , 2013 , 29, 513-521 | 2.4 | 8 |
| 42 | Current overview of S-nitrosoglutathione (GSNO) in higher plants. <i>Frontiers in Plant Science</i> , 2013 , 4, 126 | 6.2 | 126 |
| 41 | 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 |
| 40 | 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 |
| 39 | Thiol-based redox regulation in sexual plant reproduction: new insights and perspectives. <i>Frontiers in Plant Science</i> , 2013 , 4, 465 | 6.2 | 37 |
| 38 | 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 |
| 37 | 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 |
| 36 | Characterization of profilin polymorphism in pollen with a focus on multifunctionality. <i>PLoS ONE</i> , 2012 , 7, e30878 | 3.7 | 28 |
| 35 | Pollen Allergenicity is Highly Dependent on the Plant Genetic Background: The [Variety/Cultivar] Issues 2012 , | | 1 |
| 34 | Detection and Quantitation of Olive Pollen Allergen Isoforms Using 2-D Western Blotting 2012 , | | 1 |
| 33 | A novel multiplex method for the simultaneous detection and relative quantitation of pollen allergens. <i>Electrophoresis</i> , 2012 , 33, 1367-74 | 3.6 | 7 |

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|----|---|-----|----|
| 32 | 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 |
| 31 | 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 |
| 30 | Systematic and Phylogenetic Analysis of the Ole e 1 Pollen Protein Family Members in Plants 2011 , | | 1 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Cellular localization of ROS and NO in olive reproductive tissues during flower development. <i>BMC Plant Biology</i> , 2010 , 10, 36 | 5.3 | 83 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | Characterization of olive seed storage proteins. <i>Acta Physiologiae Plantarum</i> , 2007 , 29, 439-444 | 2.6 | 17 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |

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|----|---|-----|----------------|
| 14 | 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 |
| 13 | Ubiquitin and ubiquitin-conjugated proteins in the olive (<i>olea europaea</i> L.) pollen. <i>Sexual Plant Reproduction</i> , 2000 , 12, 285-291 | | 8 |
| 12 | 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 |
| 11 | 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 |
| 10 | Identification and immunolocalization of superoxide dismutase isoenzymes of olive pollen. <i>Physiologia Plantarum</i> , 1998 , 104, 772-776 | 4.6 | 10 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 | 5 ⁸ |
| 2 | 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 |
| 1 | Occasional paternal inheritance of the germline-restricted chromosome in songbirds | | 4 |