

Santiago Vilanova

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9546029/publications.pdf>

Version: 2024-02-01

100
papers

4,080
citations

76326

40
h-index

133252

59
g-index

103
all docs

103
docs citations

103
times ranked

3116
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Application of Genomic Tools in Plant Breeding. <i>Current Genomics</i> , 2012, 13, 179-195. | 1.6 | 236 |
| 2 | Introgressiomics: a new approach for using crop wild relatives in breeding for adaptation to climate change. <i>Euphytica</i> , 2017, 213, 1. | 1.2 | 154 |
| 3 | Self-Compatibility of Two Apricot Selections Is Associated with Two Pollen-Part Mutations of Different Nature. <i>Plant Physiology</i> , 2006, 142, 629-641. | 4.8 | 129 |
| 4 | An apricot (<i>Prunus armeniaca</i> L.) F2 progeny linkage map based on SSR and AFLP markers, mapping plum pox virus resistance and self-incompatibility traits. <i>Theoretical and Applied Genetics</i> , 2003, 107, 239-247. | 3.6 | 120 |
| 5 | An enhanced microsatellite map of diploid <i>Fragaria</i> . <i>Theoretical and Applied Genetics</i> , 2006, 112, 1349-1359. | 3.6 | 112 |
| 6 | Analysis of the S-locus structure in <i>Prunus armeniaca</i> L. Identification of S-haplotype specific S-RNase and F-box genes. <i>Plant Molecular Biology</i> , 2004, 56, 145-157. | 3.9 | 103 |
| 7 | Genetic linkage maps of two apricot cultivars (<i>Prunus armeniaca</i> L.), and mapping of PPV (sharka) resistance. <i>Theoretical and Applied Genetics</i> , 2002, 105, 182-191. | 3.6 | 102 |
| 8 | Genetic diversity in morphological characters and phenolic acids content resulting from an interspecific cross between eggplant, <i>Solanum melongena</i> , and its wild ancestor (<i>S. aincanum</i>). <i>Annals of Applied Biology</i> , 2013, 162, 242-257. | 2.5 | 95 |
| 9 | Diversity for chemical composition in a collection of different varietal types of tree tomato (<i>Solanum betaceum</i> Cav.), an Andean exotic fruit. <i>Food Chemistry</i> , 2015, 169, 327-335. | 8.2 | 94 |
| 10 | Location of chlorogenic acid biosynthesis pathway and polyphenol oxidase genes in a new interspecific anchored linkage map of eggplant. <i>BMC Plant Biology</i> , 2014, 14, 350. | 3.6 | 93 |
| 11 | Breeding for Chlorogenic Acid Content in Eggplant: Interest and Prospects. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2013, 41, 26. | 1.1 | 92 |
| 12 | Interspecific Hybridization between Eggplant and Wild Relatives from Different Genepools. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 34-44. | 1.0 | 89 |
| 13 | Breeding Vegetables with Increased Content in Bioactive Phenolic Acids. <i>Molecules</i> , 2015, 20, 18464-18481. | 3.8 | 88 |
| 14 | Diversity and Relationships in Key Traits for Functional and Apparent Quality in a Collection of Eggplant: Fruit Phenolics Content, Antioxidant Activity, Polyphenol Oxidase Activity, and Browning. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8871-8879. | 5.2 | 77 |
| 15 | Single Primer Enrichment Technology (SPET) for High-Throughput Genotyping in Tomato and Eggplant Germplasm. <i>Frontiers in Plant Science</i> , 2019, 10, 1005. | 3.6 | 71 |
| 16 | Reducing Capacity, Chlorogenic Acid Content and Biological Activity in a Collection of Scarlet (<i>Solanum aethiopicum</i>) and Gboma (<i>S. macrocarpon</i>) Eggplants. <i>International Journal of Molecular Sciences</i> , 2014, 15, 17221-17241. | 4.1 | 68 |
| 17 | Diversity in commercial varieties and landraces of black eggplants and implications for broadening the breeders' gene pool. <i>Annals of Applied Biology</i> , 2009, 154, 453-465. | 2.5 | 66 |
| 18 | Development and characterization of genomic simple sequence repeat markers in eggplant and their application to the study of diversity and relationships in a collection of different cultivar types and origins. <i>Molecular Breeding</i> , 2012, 30, 647-660. | 2.1 | 66 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Development of backcross generations and new interspecific hybrid combinations for introgression breeding in eggplant (<i>Solanum melongena</i>). <i>Scientia Horticulturae</i> , 2016, 213, 199-207. | 3.6 | 66 |
| 20 | Identification and mapping of a locus conferring plum pox virus resistance in two apricot-improved linkage maps. <i>Tree Genetics and Genomes</i> , 2008, 4, 391-402. | 1.6 | 65 |
| 21 | Improving seed germination of the eggplant rootstock <i>Solanum torvum</i> by testing multiple factors using an orthogonal array design. <i>Scientia Horticulturae</i> , 2015, 193, 174-181. | 3.6 | 65 |
| 22 | Phenotyping of Eggplant Wild Relatives and Interspecific Hybrids with Conventional and Phenomics Descriptors Provides Insight for Their Potential Utilization in Breeding. <i>Frontiers in Plant Science</i> , 2016, 7, 677. | 3.6 | 65 |
| 23 | Characterization and mapping of NBS-LRR resistance gene analogs in apricot (<i>Prunus armeniaca</i> L.). <i>Theoretical and Applied Genetics</i> , 2005, 110, 980-989. | 3.6 | 64 |
| 24 | Characterization of interspecific hybrids and first backcross generations from crosses between two cultivated eggplants (<i>Solanum melongena</i> and <i>S. aethiopicum</i> Kumba group) and implications for eggplant breeding. <i>Euphytica</i> , 2012, 186, 517-538. | 1.2 | 63 |
| 25 | Transcriptome analysis and molecular marker discovery in <i>Solanum incanum</i> and <i>S. aethiopicum</i> , two close relatives of the common eggplant (<i>Solanum melongena</i>) with interest for breeding. <i>BMC Genomics</i> , 2016, 17, 300. | 2.8 | 63 |
| 26 | The development of a bin mapping population and the selective mapping of 103 markers in the diploid <i>Fragaria</i> reference map. <i>Genome</i> , 2008, 51, 120-127. | 2.0 | 61 |
| 27 | Genetic diversity, population structure, and relationships in a collection of pepper (<i>Capsicum</i> spp.) landraces from the Spanish centre of diversity revealed by genotyping-by-sequencing (GBS). <i>Horticulture Research</i> , 2019, 6, 54. | 6.3 | 61 |
| 28 | Coding SNPs analysis highlights genetic relationships and evolution pattern in eggplant complexes. <i>PLoS ONE</i> , 2017, 12, e0180774. | 2.5 | 61 |
| 29 | Conventional and phenomics characterization provides insight into the diversity and relationships of hypervariable scarlet (<i>Solanum aethiopicum</i> L.) and gboma (<i>S. macrocarpon</i> L.) eggplant complexes. <i>Frontiers in Plant Science</i> , 2014, 5, 318. | 3.6 | 60 |
| 30 | Phenolics content, fruit flesh colour and browning in cultivated eggplant, wild relatives and interspecific hybrids and implications for fruit quality breeding. <i>Food Research International</i> , 2017, 102, 392-401. | 6.2 | 60 |
| 31 | Diversity and Relationships of Eggplants from Three Geographically Distant Secondary Centers of Diversity. <i>PLoS ONE</i> , 2012, 7, e41748. | 2.5 | 59 |
| 32 | Synteny conservation between two distantly-related Rosaceae genomes: <i>Prunus</i> (the stone fruits) and <i>Fragaria</i> (the strawberry). <i>BMC Plant Biology</i> , 2008, 8, 67. | 3.6 | 58 |
| 33 | Development and Genetic Characterization of Advanced Backcross Materials and An Introgression Line Population of <i>Solanum incanum</i> in a <i>S. melongena</i> Background. <i>Frontiers in Plant Science</i> , 2017, 8, 1477. | 3.6 | 57 |
| 34 | Genetic structure of <i>Cannabis sativa</i> var. indica cultivars based on genomic SSR (gSSR) markers: Implications for breeding and germplasm management. <i>Industrial Crops and Products</i> , 2017, 104, 171-178. | 5.2 | 55 |
| 35 | Genetic diversity of loquat germplasm (<i>Eriobotrya japonica</i> (Thunb) Lindl) assessed by SSR markers. <i>Genome</i> , 2005, 48, 108-114. | 2.0 | 50 |
| 36 | Characterization, diversity, and relationships of the Spanish striped (Listada) eggplants: a model for the enhancement and protection of local heirlooms. <i>Euphytica</i> , 2008, 164, 405-419. | 1.2 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A new set of polymorphic simple sequence repeat (SSR) markers from a wild strawberry (<i>Fragaria</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Ecology Notes, 2006, 6, 197-200. | 1.7 | 48 |
| 38 | Analysis of loquat germplasm (<i>Eriobotrya japonica</i> Lindl) by RAPD molecular markers. Euphytica, 2001, 121, 25-29. | 1.2 | 46 |
| 39 | Whole-Genome Resequencing of Seven Eggplant (<i>Solanum melongena</i>) and One Wild Relative (<i>S.</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 in Plant Science, 2019, 10, 1220. | 3.6 | 46 |
| 40 | Identification of Self-(in)compatibility Alleles in Apricot by PCR and Sequence Analysis. Journal of the American Society for Horticultural Science, 2005, 130, 893-898. | 1.0 | 45 |
| 41 | Comparison of transcriptome-derived simple sequence repeat (SSR) and single nucleotide polymorphism (SNP) markers for genetic fingerprinting, diversity evaluation, and establishment of relationships in eggplants. Euphytica, 2017, 213, 1. | 1.2 | 44 |
| 42 | Diallel genetic analysis for multiple traits in eggplant and assessment of genetic distances for predicting hybrids performance. PLoS ONE, 2018, 13, e0199943. | 2.5 | 43 |
| 43 | <i>Solanum insanum</i> L. (subgenus <i>Leptostemonum</i> Bitter, Solanaceae), the neglected wild progenitor of eggplant (<i>S. melongena</i> L.): a review of taxonomy, characteristics and uses aimed at its enhancement for improved eggplant breeding. Genetic Resources and Crop Evolution, 2017, 64, 1707-1722. | 1.6 | 39 |
| 44 | Development of microsatellite markers in polyploid persimmon (<i>Diospyros kaki</i> Lf) from an enriched genomic library. Molecular Ecology Notes, 2006, 6, 368-370. | 1.7 | 37 |
| 45 | Diversity, relationships, and genetic fingerprinting of the Listada de Gand a eggplant landrace using genomic SSRs and EST-SSRs. Scientia Horticulturae, 2011, 129, 238-246. | 3.6 | 37 |
| 46 | Genomic Tools for the Enhancement of Vegetable Crops: A Case in Eggplant. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2017, 46, 1-13. | 1.1 | 37 |
| 47 | Distinguishing a protected geographical indication vegetable (<i>Almagro</i> eggplant) from closely related varieties with selected morphological traits and molecular markers. Journal of the Science of Food and Agriculture, 2009, 89, 320-328. | 3.5 | 36 |
| 48 | Phenomics of fruit shape in eggplant (<i>Solanum melongena</i> L.) using Tomato Analyzer software. Scientia Horticulturae, 2013, 164, 625-632. | 3.6 | 36 |
| 49 | Detection of honey adulteration by conventional and real-time PCR. Food Control, 2019, 95, 57-62. | 5.5 | 35 |
| 50 | A highly efficient organogenesis protocol based on zeatin riboside for in vitro regeneration of eggplant. BMC Plant Biology, 2020, 20, 6. | 3.6 | 35 |
| 51 | Enhancing conservation and use of local vegetable landraces: the Almagro eggplant (<i>Solanum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 1.6 | 34 |
| 52 | First successful backcrossing towards eggplant (<i>Solanum melongena</i>) of a New World species, the silverleaf nightshade (<i>S. elaeagnifolium</i>), and characterization of interspecific hybrids and backcrosses. Scientia Horticulturae, 2019, 246, 563-573. | 3.6 | 32 |
| 53 | SILEX: a fast and inexpensive high-quality DNA extraction method suitable for multiple sequencing platforms and recalcitrant plant species. Plant Methods, 2020, 16, 110. | 4.3 | 31 |
| 54 | The Dawn of the Age of Multi-Parent MAGIC Populations in Plant Breeding: Novel Powerful Next-Generation Resources for Genetic Analysis and Selection of Recombinant Elite Material. Biology, 2020, 9, 229. | 2.8 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Localization of QTLs for in vitro plant regeneration in tomato. <i>BMC Plant Biology</i> , 2011, 11, 140. | 3.6 | 30 |
| 56 | The first de novo transcriptome of pepino (<i>Solanum muricatum</i>): assembly, comprehensive analysis and comparison with the closely related species <i>S. caripense</i> , potato and tomato. <i>BMC Genomics</i> , 2016, 17, 321. | 2.8 | 29 |
| 57 | Phenological growth stages of tree tomato (<i>Solanum betaceum</i> Cav.), an emerging fruit crop, according to the basic and extended BBCH scales. <i>Scientia Horticulturae</i> , 2016, 199, 216-223. | 3.6 | 27 |
| 58 | Performance of a Set of Eggplant (<i>Solanum melongena</i>) Lines With Introgressions From Its Wild Relative <i>S. incanum</i> Under Open Field and Screenhouse Conditions and Detection of QTLs. <i>Agronomy</i> , 2020, 10, 467. | 3.0 | 27 |
| 59 | Phenological growth stages of pepino (<i>Solanum muricatum</i>) according to the BBCH scale. <i>Scientia Horticulturae</i> , 2015, 183, 1-7. | 3.6 | 25 |
| 60 | Development of SSR markers located in the G1 linkage group of apricot (<i>Prunus armeniaca</i> L.) using a bacterial artificial chromosome library. <i>Molecular Ecology Notes</i> , 2006, 6, 789-791. | 1.7 | 24 |
| 61 | Construction and application of a bacterial artificial chromosome (BAC) library of <i>Prunus armeniaca</i> L. for the identification of clones linked to the self-incompatibility locus. <i>Molecular Genetics and Genomics</i> , 2003, 269, 685-691. | 2.1 | 22 |
| 62 | Phenolic Profile and Biological Activities of the Pepino (<i>Solanum muricatum</i>) Fruit and Its Wild Relative <i>S. caripense</i> . <i>International Journal of Molecular Sciences</i> , 2016, 17, 394. | 4.1 | 20 |
| 63 | Fruit composition diversity in land races and modern pepino (<i>Solanum muricatum</i>) varieties and wild related species. <i>Food Chemistry</i> , 2016, 203, 49-58. | 8.2 | 20 |
| 64 | Genetic diversity and relationships in accessions from different cultivar groups and origins in the tree tomato (<i>Solanum betaceum</i> Cav.). <i>Euphytica</i> , 2012, 187, 87-97. | 1.2 | 16 |
| 65 | Highly informative SSR genotyping reveals large genetic diversity and limited differentiation in European larch (<i>Larix decidua</i>) populations from Romania. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2018, 42, 165-175. | 2.1 | 16 |
| 66 | Newly Developed MAGIC Population Allows Identification of Strong Associations and Candidate Genes for Anthocyanin Pigmentation in Eggplant. <i>Frontiers in Plant Science</i> , 2022, 13, 847789. | 3.6 | 15 |
| 67 | Morphological and molecular characterization of local varieties, modern cultivars and wild relatives of an emerging vegetable crop, the pepino (<i>Solanum muricatum</i>), provides insight into its diversity, relationships and breeding history. <i>Euphytica</i> , 2015, 206, 301-318. | 1.2 | 14 |
| 68 | Fruit shape morphometric analysis and QTL detection in a set of eggplant introgression lines. <i>Scientia Horticulturae</i> , 2021, 282, 110006. | 3.6 | 14 |
| 69 | Fostering Conservation via an Integrated Use of Conventional Approaches and High-Throughput SPET Genotyping: A Case Study Using the Endangered Canarian Endemics <i>Solanum lidii</i> and <i>S. vespertilio</i> (<i>Solanaceae</i>). <i>Frontiers in Plant Science</i> , 2020, 11, 757. | 3.6 | 13 |
| 70 | Phenomics of elite heirlooms of peppers (<i>Capsicum annuum</i> L.) from the Spanish centre of diversity: Conventional and high-throughput digital tools towards varietal typification. <i>Scientia Horticulturae</i> , 2020, 265, 109245. | 3.6 | 13 |
| 71 | SNP markers applied to the characterization of Spanish tomato (<i>Solanum lycopersicum</i> L.) landraces. <i>Scientia Horticulturae</i> , 2015, 194, 100-110. | 3.6 | 11 |
| 72 | Evaluation of Advanced Backcrosses of Eggplant with <i>Solanum elaeagnifolium</i> Introgressions under Low N Conditions. <i>Agronomy</i> , 2021, 11, 1770. | 3.0 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | A Spontaneous Eggplant (<i>Solanum melongena</i> L.) Color Mutant Conditions Anthocyanin-free Fruit Pigmentation. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2016, 51, 793-798. | 1.0 | 11 |
| 74 | Self- and cross-(in)compatibility between important apricot cultivars in northwest Iran. <i>Journal of Horticultural Science and Biotechnology</i> , 2006, 81, 513-517. | 1.9 | 10 |
| 75 | Fruit Composition of Eggplant Lines with Introgressions from the Wild Relative <i>S. incanum</i> : Interest for Breeding and Safety for Consumption. <i>Agronomy</i> , 2022, 12, 266. | 3.0 | 10 |
| 76 | Multi-Level Characterization of Eggplant Accessions from Greek Islands and the Mainland Contributes to the Enhancement and Conservation of this Germplasm and Reveals a Large Diversity and Signatures of Differentiation between both Origins. <i>Agronomy</i> , 2019, 9, 887. | 3.0 | 9 |
| 77 | Morphoagronomic characterization and whole-genome resequencing of eight highly diverse wild and weedy <i>S. pimpinellifolium</i> and <i>S. lycopersicum</i> var. <i>cerasiforme</i> accessions used for the first interspecific tomato MAGIC population. <i>Horticulture Research</i> , 2020, 7, 174. | 6.3 | 9 |
| 78 | Swedish coffee (<i>Astragalus boeticus</i> L.), a neglected coffee substitute with a past and a potential future. <i>Genetic Resources and Crop Evolution</i> , 2014, 61, 287-297. | 1.6 | 8 |
| 79 | Genetic Diversity and Relationships in Local Varieties of Eggplant from Different Cultivar Groups as Assessed by Genomic SSR Markers. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2014, 42, . | 1.1 | 5 |
| 80 | Use of Embryos Extracted from Individual <i>Cannabis sativa</i> Seeds for Genetic Studies and Forensic Applications. <i>Journal of Forensic Sciences</i> , 2016, 61, 494-500. | 1.6 | 5 |
| 81 | De novo Transcriptome Assembly and Comprehensive Annotation of Two Tree Tomato Cultivars (<i>Solanum betaceum</i> Cav.) with Different Fruit Color. <i>Horticulturae</i> , 2021, 7, 431. | 2.8 | 5 |
| 82 | A Deep Learning-Based System (Microscan) for the Identification of Pollen Development Stages and Its Application to Obtaining Doubled Haploid Lines in Eggplant. <i>Biology</i> , 2020, 9, 272. | 2.8 | 4 |
| 83 | Genetic Relationships and Reproductive Traits of Romanian Populations of Silver Fir (<i>Abies alba</i>): Implications for the Sustainable Management of Local Populations. <i>Sustainability</i> , 2020, 12, 4199. | 3.2 | 4 |
| 84 | MOLECULAR GENETIC MAPPING OF THE PLUM POX VIRUS RESISTANCE GENES IN APRICOT. <i>Acta Horticulturae</i> , 2004, , 283-288. | 0.2 | 4 |
| 85 | COMPARISON OF MORPHOLOGICAL, AFLP AND SSR MARKERS FOR THE PROTECTION OF EGGPLANT GERMPLASM. <i>Acta Horticulturae</i> , 2011, , 123-131. | 0.2 | 3 |
| 86 | Detection, molecular characterisation and aspects involving the transmission of tomato chlorotic dwarf viroid in eggplant. <i>Annals of Applied Biology</i> , 2019, 175, 172-183. | 2.5 | 3 |
| 87 | Screening of Suitable Plant Regeneration Protocols for Several Capsicum spp. through Direct Organogenesis. <i>Horticulturae</i> , 2021, 7, 261. | 2.8 | 3 |
| 88 | DEVELOPMENT OF BREEDING PROGRAMMES IN EGGPLANT WITH DIFFERENT OBJECTIVES AND APPROACHES: THREE EXAMPLES OF USE OF PRIMARY GENEPOOL DIVERSITY. <i>Acta Horticulturae</i> , 2015, , 711-718. | 0.2 | 2 |
| 89 | Use of Molecular Markers to Assist the Development of Inbred Lines under Open Field Conditions: the Case of Criollo Peppers (<i>Capsicum annum</i> L.) from Mexico. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2017, 45, 365-368. | 1.1 | 2 |
| 90 | Genomic Resources in the Eggplant Wild Genepool. <i>Compendium of Plant Genomes</i> , 2021, , 189-200. | 0.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Resequencing. Compendium of Plant Genomes, 2019, , 81-89. | 0.5 | 1 |
| 92 | CLONING AND CHARACTERISATION OF NBS-LRR SEQUENCES IN APRICOT. Acta Horticulturae, 2004, , 153-156. | 0.2 | 0 |
| 93 | CLONING AND MAPPING OF RESISTANCE GENE HOMOLOGUES IN APRICOT (PRUNUS ARMENIACA L.). Acta Horticulturae, 2006, , 115-118. | 0.2 | 0 |
| 94 | CHARACTERISTICS AND SELECTION OF THE 'ALMAGRO' HEIRLOOM EGGPLANT AND POTENTIAL FOR FURTHER DEVELOPMENT. Acta Horticulturae, 2012, , 385-392. | 0.2 | 0 |
| 95 | Genomics of Temperate Fruit Trees. , 2012, , 155-208. | | 0 |
| 96 | Breeding Vegetables with Improved Bioactive Properties. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture, 2014, 71, . | 0.1 | 0 |
| 97 | Genetic diversity of wild populations of Apium nodiflorum. Journal of Biotechnology, 2015, 208, S111. | 3.8 | 0 |
| 98 | RESISTANCE TO PLUM POX VIRUS: A MOLECULAR APPROACH. Acta Horticulturae, 2004, , 277-282. | 0.2 | 0 |
| 99 | SELF-(IN)COMPATIBILITY IN PRUNUS ARMENIACA L.: ANALYSIS OF THE S-LOCUS STRUCTURE AND IDENTIFICATION OF S-HAPLOTYPE SPECIFIC S-RNASE. Acta Horticulturae, 2006, , 213-216. | 0.2 | 0 |
| 100 | Evaluaci3n de Diferentes MetodologÃas de Aprendizaje Activo desde el Punto de Vista del Estudiante en la Asignatura GenÃ3mica del Grado de BiotecnologÃa. , 0, , . | | 0 |