

# Santiago Vilanova

## List of Publications by Year in descending order

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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	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
2	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
3	Genomic Resources in the Eggplant Wild Genepool. <i>Compendium of Plant Genomes</i> , 2021, , 189-200.	0.5	2
4	Fruit shape morphometric analysis and QTL detection in a set of eggplant introgression lines. <i>Scientia Horticulturae</i> , 2021, 282, 110006.	3.6	14
5	Screening of Suitable Plant Regeneration Protocols for Several <i>Capsicum</i> spp. through Direct Organogenesis. <i>Horticulturae</i> , 2021, 7, 261.	2.8	3
6	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
7	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
8	A highly efficient organogenesis protocol based on zeatin riboside for in vitro regeneration of eggplant. <i>BMC Plant Biology</i> , 2020, 20, 6.	3.6	35
9	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
10	SILEX: a fast and inexpensive high-quality DNA extraction method suitable for multiple sequencing platforms and recalcitrant plant species. <i>Plant Methods</i> , 2020, 16, 110.	4.3	31
11	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
12	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. <i>Biology</i> , 2020, 9, 229.	2.8	31
13	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
14	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> (Solanaceae). <i>Frontiers in Plant Science</i> , 2020, 11, 757.	3.6	13
15	Phenomics of elite heirlooms of peppers ( <i>Capsicum annum</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
16	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
17	Detection of honey adulteration by conventional and real-time PCR. <i>Food Control</i> , 2019, 95, 57-62.	5.5	35
18	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

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19	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
20	Whole-Genome Resequencing of Seven Eggplant ( <i>Solanum melongena</i> ) and One Wild Relative ( <i>S.</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 in <i>Plant Science</i> , 2019, 10, 1220.	3.6	46
21	Resequencing. <i>Compendium of Plant Genomes</i> , 2019, , 81-89.	0.5	1
22	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
23	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
24	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. <i>Scientia Horticulturae</i> , 2019, 246, 563-573.	3.6	32
25	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
26	Diallel genetic analysis for multiple traits in eggplant and assessment of genetic distances for predicting hybrids performance. <i>PLoS ONE</i> , 2018, 13, e0199943.	2.5	43
27	Genetic structure of <i>Cannabis sativa</i> var. <i>indica</i> 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
28	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
29	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. <i>Euphytica</i> , 2017, 213, 1.	1.2	44
30	Introgressomics: a new approach for using crop wild relatives in breeding for adaptation to climate change. <i>Euphytica</i> , 2017, 213, 1.	1.2	154
31	<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. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 1707-1722.	1.6	39
32	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
33	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
34	Genomic Tools for the Enhancement of Vegetable Crops: A Case in Eggplant. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2017, 46, 1-13.	1.1	37
35	Coding SNPs analysis highlights genetic relationships and evolution pattern in eggplant complexes. <i>PLoS ONE</i> , 2017, 12, e0180774.	2.5	61
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	Interspecific Hybridization between Eggplant and Wild Relatives from Different Gene pools. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 34-44.	1.0	89
46	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
47	Breeding Vegetables with Increased Content in Bioactive Phenolic Acids. <i>Molecules</i> , 2015, 20, 18464-18481.	3.8	88
48	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
49	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
50	Genetic diversity of wild populations of <i>Apium nodiflorum</i> . <i>Journal of Biotechnology</i> , 2015, 208, S111.	3.8	0
51	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
52	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
53	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
54	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

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55	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
56	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
57	Breeding Vegetables with Improved Bioactive Properties. <i>Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture</i> , 2014, 71, .	0.1	0
58	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
59	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
60	Enhancing conservation and use of local vegetable landraces: the Almagro eggplant ( <i>Solanum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54.	1.6	34
61	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
62	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. incanum</i> ). <i>Annals of Applied Biology</i> , 2013, 162, 242-257.	2.5	95
63	Phenomics of fruit shape in eggplant ( <i>Solanum melongena</i> L.) using Tomato Analyzer software. <i>Scientia Horticulturae</i> , 2013, 164, 625-632.	3.6	36
64	Breeding for Chlorogenic Acid Content in Eggplant: Interest and Prospects. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2013, 41, 26.	1.1	92
65	Application of Genomic Tools in Plant Breeding. <i>Current Genomics</i> , 2012, 13, 179-195.	1.6	236
66	CHARACTERISTICS AND SELECTION OF THE 'ALMAGRO' HEIRLOOM EGGPLANT AND POTENTIAL FOR FURTHER DEVELOPMENT. <i>Acta Horticulturae</i> , 2012, , 385-392.	0.2	0
67	Genomics of Temperate Fruit Trees. , 2012, , 155-208.		0
68	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
69	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
70	Diversity and Relationships of Eggplants from Three Geographically Distant Secondary Centers of Diversity. <i>PLoS ONE</i> , 2012, 7, e41748.	2.5	59
71	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
72	Diversity, relationships, and genetic fingerprinting of the Listada de Gand�a eggplant landrace using genomic SSRs and EST-SSRs. <i>Scientia Horticulturae</i> , 2011, 129, 238-246.	3.6	37

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73	COMPARISON OF MORPHOLOGICAL, AFLP AND SSR MARKERS FOR THE PROTECTION OF EGGPLANT GERMPLASM. <i>Acta Horticulturae</i> , 2011, , 123-131.	0.2	3
74	Localization of QTLs for in vitro plant regeneration in tomato. <i>BMC Plant Biology</i> , 2011, 11, 140.	3.6	30
75	Distinguishing a protected geographical indication vegetable (<i>Almagro</i> eggplant) from closely related varieties with selected morphological traits and molecular markers. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 320-328.	3.5	36
76	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
77	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
78	Characterization, diversity, and relationships of the Spanish striped ( <i>Listada</i> ) eggplants: a model for the enhancement and protection of local heirlooms. <i>Euphytica</i> , 2008, 164, 405-419.	1.2	50
79	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
80	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
81	CLONING AND MAPPING OF RESISTANCE GENE HOMOLOGUES IN APRICOT ( <i>PRUNUS ARMENIACA</i> L.). <i>Acta Horticulturae</i> , 2006, , 115-118.	0.2	0
82	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
83	A new set of polymorphic simple sequence repeat (SSR) markers from a wild strawberry ( <i>Fragaria</i> ) Tj ETQq1 1 0.784314 rgBT /Overlook Ecology Notes, 2006, 6, 197-200.	1.7	48
84	Development of microsatellite markers in polyploid persimmon ( <i>Diospyros kaki</i> Lf) from an enriched genomic library. <i>Molecular Ecology Notes</i> , 2006, 6, 368-370.	1.7	37
85	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
86	An enhanced microsatellite map of diploid <i>Fragaria</i> . <i>Theoretical and Applied Genetics</i> , 2006, 112, 1349-1359.	3.6	112
87	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
88	SELF-(IN)COMPATIBILITY IN <i>PRUNUS ARMENIACA</i> L.: ANALYSIS OF THE S-LOCUS STRUCTURE AND IDENTIFICATION OF S-HAPLOTYPE SPECIFIC S-RNASE. <i>Acta Horticulturae</i> , 2006, , 213-216.	0.2	0
89	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
90	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

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91	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
92	CLONING AND CHARACTERISATION OF NBS-LRR SEQUENCES IN APRICOT. Acta Horticulturae, 2004, , 153-156.	0.2	0
93	Analysis of the S-locus structure in Prunus armeniaca L. Identification of S-haplotype specific S-RNase and F-box genes. Plant Molecular Biology, 2004, 56, 145-157.	3.9	103
94	MOLECULAR GENETIC MAPPING OF THE PLUM POX VIRUS RESISTANCE GENES IN APRICOT. Acta Horticulturae, 2004, , 283-288.	0.2	4
95	RESISTANCE TO PLUM POX VIRUS: A MOLECULAR APPROACH. Acta Horticulturae, 2004, , 277-282.	0.2	0
96	An apricot (Prunus armeniaca L.) F2 progeny linkage map based on SSR and AFLP markers, mapping plum pox virus resistance and self-incompatibility traits. Theoretical and Applied Genetics, 2003, 107, 239-247.	3.6	120
97	Construction and application of a bacterial artificial chromosome (BAC) library of Prunus armeniaca L. for the identification of clones linked to the self-incompatibility locus. Molecular Genetics and Genomics, 2003, 269, 685-691.	2.1	22
98	Genetic linkage maps of two apricot cultivars (Prunus armeniaca L.), and mapping of PPV (sharka) resistance. Theoretical and Applied Genetics, 2002, 105, 182-191.	3.6	102
99	Analysis of loquat germplasm (Eriobotrya japonica Lindl) by RAPD molecular markers. Euphytica, 2001, 121, 25-29.	1.2	46
100	Evaluaci3n de Diferentes Metodolog3as de Aprendizaje Activo desde el Punto de Vista del Estudiante en la Asignatura Gen3mica del Grado de Biotecnolog3a. , 0, , .		0