

# Mariola Plazas

## List of Publications by Year in descending order

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86  
papers

2,616  
citations

172386

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223716

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87  
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times ranked

2161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Introgresiomics: a new approach for using crop wild relatives in breeding for adaptation to climate change. <i>Euphytica</i> , 2017, 213, 1.	0.6	154
2	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.	1.3	95
3	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.	4.2	94
4	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.	1.6	93
5	Breeding for Chlorogenic Acid Content in Eggplant: Interest and Prospects. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2013, 41, 26.	0.5	92
6	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.	0.5	89
7	Breeding Vegetables with Increased Content in Bioactive Phenolic Acids. <i>Molecules</i> , 2015, 20, 18464-18481.	1.7	88
8	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.	2.4	77
9	Characterization of composition traits related to organoleptic and functional quality for the differentiation, selection and enhancement of local varieties of tomato from different cultivar groups. <i>Food Chemistry</i> , 2015, 187, 517-524.	4.2	76
10	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.	1.8	68
11	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.	1.7	66
12	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.	1.7	65
13	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.	1.7	65
14	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.	0.6	63
15	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.	1.2	63
16	Coding SNPs analysis highlights genetic relationships and evolution pattern in eggplant complexes. <i>PLoS ONE</i> , 2017, 12, e0180774.	1.1	61
17	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.	1.7	60
18	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.	2.9	60

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19	Diversity and Relationships of Eggplants from Three Geographically Distant Secondary Centers of Diversity. <i>PLoS ONE</i> , 2012, 7, e41748.	1.1	59
20	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.	1.7	57
21	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.	2.5	55
22	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.	0.6	44
23	Diallel genetic analysis for multiple traits in eggplant and assessment of genetic distances for predicting hybrids performance. <i>PLoS ONE</i> , 2018, 13, e0199943.	1.1	43
24	Comparative analysis of the responses to water stress in eggplant ( <i>Solanum melongena</i> ) cultivars. <i>Plant Physiology and Biochemistry</i> , 2019, 143, 72-82.	2.8	41
25	<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.	0.8	39
26	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.	1.7	37
27	Genomic Tools for the Enhancement of Vegetable Crops: A Case in Eggplant. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2017, 46, 1-13.	0.5	37
28	Phenomics of fruit shape in eggplant ( <i>Solanum melongena</i> L.) using Tomato Analyzer software. <i>Scientia Horticulturae</i> , 2013, 164, 625-632.	1.7	36
29	A highly efficient organogenesis protocol based on zeatin riboside for in vitro regeneration of eggplant. <i>BMC Plant Biology</i> , 2020, 20, 6.	1.6	35
30	Enhancing conservation and use of local vegetable landraces: the Almagro eggplant ( <i>Solanum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	0.8	34
31	Fruit composition profile of pepper, tomato and eggplant varieties grown under uniform conditions. <i>Food Research International</i> , 2021, 147, 110531.	2.9	33
32	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.	1.7	32
33	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.	1.9	31
34	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.	1.3	31
35	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.	1.2	29
36	Insights Into the Adaptation to Greenhouse Cultivation of the Traditional Mediterranean Long Shelf-Life Tomato Carrying the alc Mutation: A Multi-Trait Comparison of Landraces, Selections, and Hybrids in Open Field and Greenhouse. <i>Frontiers in Plant Science</i> , 2018, 9, 1774.	1.7	29

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37	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.	1.7	27
38	Physiological and Biochemical Responses to Salt Stress in Cultivated Eggplant ( <i>Solanum melongena</i> L.) and in <i>S. insanum</i> L., a Close Wild Relative. <i>Agronomy</i> , 2020, 10, 651.	1.3	27
39	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.	1.3	27
40	From bits to bites: Advancement of the Germinate platform to support prebreeding informatics for crop wild relatives. <i>Crop Science</i> , 2021, 61, 1538-1566.	0.8	26
41	Phenological growth stages of pepino ( <i>Solanum muricatum</i> ) according to the BBCH scale. <i>Scientia Horticulturae</i> , 2015, 183, 1-7.	1.7	25
42	Potential In Vitro Inhibition of Selected Plant Extracts against SARS-CoV-2 Chymotrypsin-Like Protease (3CLPro) Activity. <i>Foods</i> , 2021, 10, 1503.	1.9	25
43	Diversity in composition of scarlet ( <i>S. aethiopicum</i> ) and gboma ( <i>S. macrocarpon</i> ) eggplants and of interspecific hybrids between <i>S. aethiopicum</i> and common eggplant ( <i>S. melongena</i> ). <i>Journal of Food Composition and Analysis</i> , 2016, 45, 130-140.	1.9	23
44	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.	1.8	20
45	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.	4.2	20
46	Comparative Studies on the Physiological and Biochemical Responses to Salt Stress of Eggplant ( <i>Solanum melongena</i> ) and Its Rootstock <i>S. torvum</i> . <i>Agriculture (Switzerland)</i> , 2020, 10, 328.	1.4	18
47	Growth and antioxidant responses triggered by water stress in wild relatives of eggplant. <i>Scientia Horticulturae</i> , 2022, 293, 110685.	1.7	17
48	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.	0.8	16
49	Inoculation of cucumber, melon and zucchini varieties with <i>Tomato leaf curl New Delhi virus</i> and evaluation of infection using different detection methods. <i>Annals of Applied Biology</i> , 2017, 170, 405-414.	1.3	15
50	Development of Interspecific Hybrids between a Cultivated Eggplant Resistant to Bacterial Wilt ( <i>Ralstonia solanacearum</i> ) and Eggplant Wild Relatives for the Development of Rootstocks. <i>Plants</i> , 2020, 9, 1405.	1.6	15
51	Genetic parameters of drought tolerance for agromorphological traits in eggplant, wild relatives, and interspecific hybrids. <i>Crop Science</i> , 2021, 61, 55-68.	0.8	15
52	Variation for Composition and Quality in a Collection of the Resilient Mediterranean <i>de penjar</i> ™ Long Shelf-Life Tomato Under High and Low N Fertilization Levels. <i>Frontiers in Plant Science</i> , 2021, 12, 633957.	1.7	15
53	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.	1.7	15
54	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.	0.6	14

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55	Fruit shape morphometric analysis and QTL detection in a set of eggplant introgression lines. <i>Scientia Horticulturae</i> , 2021, 282, 110006.	1.7	14
56	Responses to Water Deficit and Salt Stress in Silver Fir ( <i>Abies alba</i> Mill.) Seedlings. <i>Forests</i> , 2020, 11, 395.	0.9	11
57	Evaluation of Advanced Backcrosses of Eggplant with <i>Solanum elaeagnifolium</i> Introgressions under Low N Conditions. <i>Agronomy</i> , 2021, 11, 1770.	1.3	11
58	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.	1.3	10
59	Physico-Chemical, Nutritional, and Sensory Evaluation of Two New Commercial Tomato Hybrids and Their Parental Lines. <i>Plants</i> , 2021, 10, 2480.	1.6	9
60	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.	0.8	8
61	Association of Heterotic Groups with Morphological Relationships and General Combining Ability in Eggplant. <i>Agriculture (Switzerland)</i> , 2020, 10, 203.	1.4	7
62	Biological Traits and Genetic Relationships Amongst Cultivars of Three Species of <i>Tagetes</i> (Asteraceae). <i>Plants</i> , 2022, 11, 760.	1.6	6
63	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, .	0.5	5
64	Screening for Salt and Water Stress Tolerance in Fir ( <i>Abies alba</i> ) Populations. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2019, 47, 1063-1072.	0.5	5
65	Moderate and severe water stress effects on morphological and biochemical traits in a set of pepino ( <i>Solanum muricatum</i> ) cultivars. <i>Scientia Horticulturae</i> , 2021, 284, 110143.	1.7	5
66	Editorial: Introgression Breeding in Cultivated Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 764533.	1.7	5
67	Ploidy Modification for Plant Breeding Using In Vitro Organogenesis: A Case in Eggplant. <i>Methods in Molecular Biology</i> , 2021, 2264, 197-206.	0.4	5
68	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.	1.6	4
69	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.	1.3	3
70	Pepper and Eggplant Genetic Resources. <i>Compendium of Plant Genomes</i> , 2021, , 119-154.	0.3	3
71	The influence of acute water stresses on the biochemical composition of bell pepper ( <i>Capsicum</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.7	3
72	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.	0.1	2

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73	Drought Tolerance Among Accessions of Eggplant and Related Species. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture, 2015, 72, .	0.2	2
74	Creating Products and Services in Plant Biotechnology. , 2019, , 19-52.		2
75	Molecular Characterization of Scarlet and Gboma Eggplants Based on Single Nucleotide Polymorphisms. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture, 2015, 72, .	0.2	1
76	Breeding and Genome Mapping for Resistance to Biotic Stress in Eggplant. , 2022, , 147-187.		1
77	CHARACTERISTICS AND SELECTION OF THE 'ALMAGRO' HEIRLOOM EGGPLANT AND POTENTIAL FOR FURTHER DEVELOPMENT. Acta Horticulturae, 2012, , 385-392.	0.1	0
78	Breeding Vegetables with Improved Bioactive Properties. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture, 2014, 71, .	0.2	0
79	Biotechnological tools for introgression breeding for adaptation of crops to climate change. Journal of Biotechnology, 2019, 305, S19.	1.9	0
80	Morphological Diversity in Gboma Eggplant (Solanum macrocarpon) as Assessed with Conventional and Tomato Analyzer Descriptors. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture, 2014, 71, .	0.2	0
81	Increasing the Genetic Base of Modern Cultivars of Eggplant of the Semi-Long Black Type. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Horticulture, 2015, 72, .	0.2	0
82	INTRODUCTION AND DEVELOPMENT OF A PRACTICAL LESSON FOR IMPROVING THE COMPETENCE OF MASTER STUDENTS IN PLANT BREEDING: THE USEFULNESS OF SPECIFIC SOFTWARE IN PHENOTYPING TASKS. INTED Proceedings, 2019, , .	0.0	0
83	INTRODUCTION OF A PRACTICAL LESSON FOR THE EVALUATION OF BIOACTIVE QUALITY IN PLANT MATERIALS ADDRESSED TO STUDENTS IN PLANT BREEDING. , 2019, , .		0
84	INTRODUCTION OF A PRACTICAL LESSON FOR THE EVALUATION OF CAROTENOIDS IN FRUITS AND VEGETABLES FOR MASTER STUDENTS. , 2019, , .		0
85	INTRODUCTION AND DEVELOPMENT OF A PRACTICAL LESSON FOR IMPROVING THE COMPETENCE OF UNDERGRADUATE STUDENTS IN MASSIVE GENOTYPING DATA ANALYSIS: THE USEFULNESS OF TASSEL SOFTWARE. INTED Proceedings, 2022, , .	0.0	0
86	INTRODUCTION TO ADVANCED SEQUENCING TECHNOLOGIES FOR UNDERGRADUATE STUDENTS IN GENETICS: MINION REAL-TIME SEQUENCING. INTED Proceedings, 2022, , .	0.0	0