

# Silverio GarcÃ-a-Lara

## List of Publications by Year in descending order

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85  
papers

2,208  
citations

257101

24  
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264894

42  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2290  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro plant tissue culture: means for production of biological active compounds. <i>Planta</i> , 2018, 248, 1-18.	1.6	333
2	The Role of Pericarp Cell Wall Components in Maize Weevil Resistance. <i>Crop Science</i> , 2004, 44, 1546-1552.	0.8	110
3	Phytochemical analysis of wastewater (nejayote) obtained after lime-cooking of different types of maize kernels processed into masa for tortillas. <i>Journal of Cereal Science</i> , 2010, 52, 410-416.	1.8	86
4	Preventive and therapeutic potential of peptides from cereals against cancer. <i>Journal of Proteomics</i> , 2014, 111, 165-183.	1.2	86
5	Hydroxycinnamic acids, sugar composition and antioxidant capacity of arabinoxylans extracted from different maize fiber sources. <i>Food Hydrocolloids</i> , 2014, 35, 471-475.	5.6	80
6	Effect of in vitro drought stress on phenolic acids, flavonols, saponins, and antioxidant activity in <i>Agave salmiana</i> . <i>Plant Physiology and Biochemistry</i> , 2017, 115, 400-407.	2.8	69
7	Anti-Cancer Activity of Maize Bioactive Peptides. <i>Frontiers in Chemistry</i> , 2017, 5, 44.	1.8	68
8	Nutraceutical profiles of improved blue maize ( <i>Zea mays</i> ) hybrids for subtropical regions. <i>Field Crops Research</i> , 2013, 141, 69-76.	2.3	56
9	Genetic approaches to reducing losses of stored grain to insects and diseases. <i>Current Opinion in Plant Biology</i> , 2004, 7, 480-485.	3.5	52
10	Antiproliferative effect of peptide fractions isolated from a quality protein maize, a white hybrid maize, and their derived peptides on hepatocarcinoma human HepG2 cells. <i>Journal of Functional Foods</i> , 2017, 34, 36-48.	1.6	44
11	Luteolin content and antioxidant activity in micropropagated plants of <i>Poliomintha glabrescens</i> (Gray). <i>Plant Cell, Tissue and Organ Culture</i> , 2012, 108, 521-527.	1.2	43
12	Phytochemical and Nutraceutical Changes during Recurrent Selection for Storage Pest Resistance in Tropical Maize. <i>Crop Science</i> , 2014, 54, 2423-2432.	0.8	42
13	Soluble Peroxidase Activity in Maize Endosperm Associated with Maize Weevil Resistance. <i>Crop Science</i> , 2007, 47, 1125-1130.	0.8	39
14	QTL Mapping of Tropical Maize Grain Components Associated with Maize Weevil Resistance. <i>Crop Science</i> , 2010, 50, 815-825.	0.8	39
15	Mapping of QTL Associated with Maize Weevil Resistance in Tropical Maize. <i>Crop Science</i> , 2009, 49, 139-149.	0.8	38
16	Postharvest insect resistance in maize. <i>Journal of Stored Products Research</i> , 2018, 77, 66-76.	1.2	38
17	Current Methods for the Discovery of New Active Ingredients from Natural Products for Cosmeceutical Applications. <i>Planta Medica</i> , 2019, 85, 535-551.	0.7	38
18	Fumonisin and their analogues in contaminated corn and its processed foods – a review. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 2183-2203.	1.1	35

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19	Portable hermetic storage bag resistant to <i>Prostephanus truncatus</i> , <i>Rhyzopertha dominica</i> , and <i>Callosobruchus maculatus</i> . <i>Journal of Stored Products Research</i> , 2013, 54, 23-25.	1.2	34
20	Genetic mapping of QTL for maize weevil resistance in a RIL population of tropical maize. <i>Theoretical and Applied Genetics</i> , 2015, 128, 411-419.	1.8	32
21	Effect of thermal processing and reducing agents on trypsin inhibitor activity and functional properties of soybean and chickpea protein concentrates. <i>LWT - Food Science and Technology</i> , 2018, 98, 629-634.	2.5	32
22	Corn History and Culture. , 2019, , 1-18.		32
23	Chemopreventive Effects of Free and Bound Phenolics Associated to Steep Waters (Nejayote) Obtained After Nixtamalization of Different Maize Types. <i>Plant Foods for Human Nutrition</i> , 2012, 67, 94-99.	1.4	29
24	An improved microscale method for extraction of phenolic acids from maize. <i>Plant Methods</i> , 2017, 13, 81.	1.9	29
25	Response of recurrent selection on yield, kernel oil content and fatty acid composition of subtropical maize populations. <i>Field Crops Research</i> , 2013, 142, 27-35.	2.3	27
26	Characterization of concentrated agave saps and storage effects on browning, antioxidant capacity and amino acid content. <i>Journal of Food Composition and Analysis</i> , 2016, 45, 113-120.	1.9	26
27	Antioxidant activity and characterization of protein fractions and hydrolysates from normal and quality protein maize kernels. <i>Journal of Cereal Science</i> , 2017, 76, 85-91.	1.8	26
28	Grain and Tortilla Quality in Landraces and Improved Maize Grown in the Highlands of Mexico. <i>Plant Foods for Human Nutrition</i> , 2011, 66, 203-208.	1.4	25
29	Exploiting Phenylpropanoid Derivatives to Enhance the Nutraceutical Values of Cereals and Legumes. <i>Frontiers in Plant Science</i> , 2016, 7, 763.	1.7	24
30	Enhancement of saponins and flavonols by micropropagation of <i>Agave salmiana</i> . <i>Industrial Crops and Products</i> , 2017, 105, 225-230.	2.5	24
31	Relationship between hydroxycinnamic profile with gelation capacity and rheological properties of arabinoxylans extracted from different maize fiber sources. <i>Food Hydrocolloids</i> , 2014, 39, 280-285.	5.6	23
32	Effects of parboiling and other hydrothermal treatments on the physical, functional, and nutritional properties of rice and other cereals. <i>Cereal Chemistry</i> , 2018, 95, 79-91.	1.1	23
33	Antioxidant Activity of Zein Hydrolysates from Zea Species and Their Cytotoxic Effects in a Hepatic Cell Culture. <i>Molecules</i> , 2018, 23, 312.	1.7	23
34	Application of metabolic engineering to enhance the content of alkaloids in medicinal plants. <i>Metabolic Engineering Communications</i> , 2022, 14, e00194.	1.9	22
35	Hydrothermal treatment of maize: Changes in physical, chemical, and functional properties. <i>Food Chemistry</i> , 2018, 263, 225-231.	4.2	21
36	Maize bioactive peptides: From structure to human health. <i>Journal of Cereal Science</i> , 2021, 100, 103232.	1.8	20

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37	Synergistic effects of insect-resistant maize and <i>Teretrius nigrescens</i> on the reduction of grain losses caused by <i>Prostephanus truncatus</i> (Horn.). <i>Journal of Stored Products Research</i> , 2011, 47, 95-100.	1.2	19
38	<i>Insect Pests.</i> , 2016, , 432-436.		19
39	Natural Peptides Inducing Cancer Cell Death: Mechanisms and Properties of Specific Candidates for Cancer Therapeutics. <i>Molecules</i> , 2021, 26, 7453.	1.7	19
40	Micropropagation Effect on the Anti-carcinogenic Activity of Polyphenolics from Mexican Oregano ( <i>Poliomintha glabrescens</i> Gray) in Human Colon Cancer Cells HT-29. <i>Plant Foods for Human Nutrition</i> , 2013, 68, 155-162.	1.4	18
41	Strategies to Produce Thermoplastic Starch-Zein Blends: Effect on Compatibilization. <i>Journal of Polymers and the Environment</i> , 2014, 22, 508-524.	2.4	18
42	Fatty acid composition and proximate analysis of improved high-oil corn double haploid hybrids adapted to subtropical areas. <i>Cereal Chemistry</i> , 2019, 96, 182-192.	1.1	16
43	Micropropagation of <i>Agave salmiana</i> : Means to Production of Antioxidant and Bioactive Principles. <i>Frontiers in Plant Science</i> , 2015, 6, 1026.	1.7	15
44	Natural variation of hydroxycinnamic acid amides in maize landraces. <i>Journal of Cereal Science</i> , 2019, 88, 145-149.	1.8	15
45	Development and Structure of the Corn Kernel. , 2019, , 147-163.		15
46	Field effectiveness of improved hermetic storage technologies on maize grain quality in Central Mexico. <i>Journal of Stored Products Research</i> , 2020, 87, 101585.	1.2	15
47	Thermoplastic Processing of Blue Maize and White Sorghum Flours to Produce Bioplastics. <i>Journal of Polymers and the Environment</i> , 2015, 23, 72-82.	2.4	14
48	Effects of Lime-Cooking on Carotenoids Present in Masa and Tortillas Produced from Different Types of Maize. <i>Cereal Chemistry</i> , 2014, 91, 508-512.	1.1	13
49	In Silico Analysis and In Vitro Characterization of the Bioactive Profile of Three Novel Peptides Identified from 19 kDa Zm-Zein Sequences of Maize. <i>Molecules</i> , 2020, 25, 5405.	1.7	13
50	Activity-directed identification of maize kernel peroxidases associated with postharvest insect resistance. <i>Molecular BioSystems</i> , 2010, 6, 1810.	2.9	12
51	POTENCIAL NUTRACÉUTICO DE LOS MAÍZES CRIOLLOS Y CAMBIOS DURANTE EL PROCESAMIENTO TRADICIONAL Y CON EXTRUSIÓN. <i>Revista Fitotecnia Mexicana</i> , 2013, 36, 295.	0.0	12
52	Recent advances on the use of abiotic stress (water, UV radiation, atmospheric gases, and temperature) on maize growth regulation. <i>Journal of Agricultural Science</i> , 2022, 97, 1-20.	1.8	12
53	Conversion into bioethanol of insect ( <i>Sitophilus zeamais</i> Motschulsky), mold ( <i>Aspergillus flavus</i> Link) and sprout-damaged maize ( <i>Zea mays</i> L.) and sorghum ( <i>Sorghum bicolor</i> L. Moench). <i>Journal of Cereal Science</i> , 2012, 55, 285-292.	1.8	11
54	Identification of B6T173 (ZmPrx35) as the prevailing peroxidase in highly insect-resistant maize ( <i>Zea mays</i> L.). <i>Journal of Agricultural Science</i> , 2017, 149, 107-111.	1.7	11

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55	Increase of peroxidase activity in tropical maize after recurrent selection to storage pest resistance. <i>Journal of Stored Products Research</i> , 2018, 75, 47-55.	1.2	11
56	Steroidal Saponin and Flavonol Content and Antioxidant Activity during Sporophyte Development of Maguey ( <i>Agave salmiana</i> ). <i>Plant Foods for Human Nutrition</i> , 2018, 73, 287-294.	1.4	11
57	Mapping of maize storage losses due to insect pests in central Mexico. <i>Journal of Stored Products Research</i> , 2019, 84, 101529.	1.2	10
58	Influence of genotype and environmental adaptation into the maize grain quality traits for nixtamalization. <i>CYTA - Journal of Food</i> , 2013, 11, 54-61.	0.9	9
59	Compositional Variation in Trans-Ferulic, p-coumaric, and Diferulic Acids Levels Among Kernels of Modern and Traditional Maize ( <i>Zea mays</i> L.) Hybrids. <i>Frontiers in Nutrition</i> , 2020, 7, 600747.	1.6	9
60	Studying Mixing in Non-Newtonian Blue Maize Flour Suspensions Using Color Analysis. <i>PLoS ONE</i> , 2014, 9, e112954.	1.1	8
61	Physical Properties and Chemical Characterization of Macro- and Micro-Nutriments of Elite Blue Maize Hybrids ( <i>Zea mays</i> L.). <i>Cereal Research Communications</i> , 2015, 43, 295-306.	0.8	8
62	Screening of major phenolics and antioxidant activities in teosinte populations and modern maize types. <i>Journal of Cereal Science</i> , 2018, 79, 276-285.	1.8	8
63	Assessment of potential impacts associated with gene flow from transgenic hybrids to Mexican maize landraces. <i>Transgenic Research</i> , 2019, 28, 509-523.	1.3	8
64	IDENTIFICATION OF MAIZE LANDRACES WITH HIGH LEVEL OF RESISTANCE TO STORAGE PESTS <i>Sitophilus zeamais</i> Motschulsky AND <i>Prostephanus truncatus</i> Horn IN LATIN AMERICA. <i>Revista Fitotecnia Mexicana</i> , 2013, 36, 347.	0.0	8
65	Susceptibility of different types of sorghums during storage to <i>Sitophilus zeamais</i> Motschulsky. <i>Journal of Stored Products Research</i> , 2013, 54, 34-40.	1.2	7
66	A 3-SPS-1S parallel robot-based laser sensing for applications in precision agriculture. <i>Soft Computing</i> , 2017, 21, 641-650.	2.1	7
67	Transient co-expression with three O-glycosylation enzymes allows production of GalNAc-O-glycosylated Granulocyte-Colony Stimulating Factor in <i>N. benthamiana</i> . <i>Plant Methods</i> , 2018, 14, 98.	1.9	7
68	Comparison of the processing and quality of tortillas produced from larger grain borer <i>Prostephanus truncatus</i> (Horn.) resistant and susceptible maize genotypes. <i>Journal of Stored Products Research</i> , 2013, 55, 99-105.	1.2	6
69	A Colorful Mixing Experiment in a Stirred Tank Using Non-Newtonian Blue Maize Flour Suspensions. <i>Journal of Chemical Education</i> , 2014, 91, 1729-1735.	1.1	6
70	Supercritical CO <sub>2</sub> Foaming of Thermoplastic Materials Derived from Maize: Proof-of-Concept Use in Mammalian Cell Culture Applications. <i>PLoS ONE</i> , 2015, 10, e0122489.	1.1	6
71	Effects of saline elicitors on saponin production in <i>Agave salmiana</i> plants grown in vitro. <i>Plant Physiology and Biochemistry</i> , 2021, 162, 476-482.	2.8	5
72	nurP28, a New-to-Nature Zein-Derived Peptide, Enhances the Therapeutic Effect of Docetaxel in Breast Cancer Monolayers and Spheroids. <i>Molecules</i> , 2022, 27, 2824.	1.7	5

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73	Phytochemical Profiles and Nutraceutical Properties of Corn and Wheat Tortillas. , 2015, , 65-96.		4
74	Cereals: Storage. , 2016, , 712-717.		4
75	Prediction of the antioxidant capacity of maize ( <i>Zea mays</i> ) hybrids using mass fingerprinting and data mining. <i>Food Bioscience</i> , 2020, 37, 100647.	2.0	4
76	Modulation of Aleurone Peroxidases in Kernels of Insect-Resistant Maize ( <i>Zea mays</i> L.; Pob84-C3R) After Mechanical and Insect Damage. <i>Frontiers in Plant Science</i> , 2020, 11, 781.	1.7	3
77	Effect of the Addition of Different Vegetal Mixtures on the Nutritional, Functional, and Sensorial Properties of Snacks Based on Pseudocereals. <i>Foods</i> , 2021, 10, 2271.	1.9	3
78	Physicochemical characterization of the anatomical structures of teosinte ( <i>Zea mays</i> subsp. <i>mexicana</i> ) covered caryopses.. <i>Journal of Cereal Science</i> , 2021, , 103353.	1.8	2
79	PRESSURE GRADIENTS APPLICATION FOR ACCELERATING CORN HYDRATION. <i>Revista Mexicana De Ingeniera Quimica</i> , 2018, 17, 669-677.	0.2	2
80	Phenotypic traits of Mexican soybean seeds and their correlation with in vitro shoot induction and susceptibility to <i>Agrobacterium</i> infection. <i>Acta Botanica Mexicana</i> , 2019, , .	0.1	2
81	Physical and chemical parameters, <i>Fusarium verticillioides</i> growth and fumonisin production in kernels of nine maize genotypes. <i>Journal of Cereal Science</i> , 2020, 96, 103128.	1.8	1
82	Novel $\alpha$ -zein peptide fractions with in vitro cytotoxic activity against hepatocarcinoma. <i>Food and Bioproducts Processing</i> , 2022, 135, 48-59.	1.8	1
83	In Vitro Germination and Initial Seedling Development of Krantz Aloe by Smoke-saturated Water and Seed Imbibition. <i>HortTechnology</i> , 2020, 30, 619-623.	0.5	0
84	Constitutive Changes in Nutrients and Phytochemicals in Kernels of Aluminium-Tolerant Maize ( <i>Zea</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	0
85	Novel method for detecting and quantifying residual bran and germ tissues in refined maize grits. <i>Cereal Chemistry</i> , 0, , .	1.1	0