

Fernando Carlos GÃ³mez-Merino

List of Publications by Year in descending order

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85
papers

1,156
citations

471509

17
h-index

454955

30
g-index

85
all docs

85
docs citations

85
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Biostimulant activity of phosphite in horticulture. <i>Scientia Horticulturae</i> , 2015, 196, 82-90.	3.6	105
2	AtDGK2, a Novel Diacylglycerol Kinase from <i>Arabidopsis thaliana</i> , Phosphorylates 1-Stearoyl-2-arachidonoyl-sn-glycerol and 1,2-Dioleoyl-sn-glycerol and Exhibits Cold-inducible Gene Expression. <i>Journal of Biological Chemistry</i> , 2004, 279, 8230-8241.	3.4	78
3	<i>Arabidopsis</i> AtDGK7, the Smallest Member of Plant Diacylglycerol Kinases (DGKs), Displays Unique Biochemical Features and Saturates at Low Substrate Concentration. <i>Journal of Biological Chemistry</i> , 2005, 280, 34888-34899.	3.4	69
4	Exposure of stevia (<i>Stevia rebaudiana</i> B.) to silver nanoparticles in vitro: transport and accumulation. <i>Scientific Reports</i> , 2019, 9, 10372.	3.3	67
5	Vanadium stimulates pepper plant growth and flowering, increases concentrations of amino acids, sugars and chlorophylls, and modifies nutrient concentrations. <i>PLoS ONE</i> , 2018, 13, e0201908.	2.5	52
6	Hormetic Response by Silver Nanoparticles on In Vitro Multiplication of Sugarcane (<i>Saccharum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	47
7	Cerium enhances germination and shoot growth, and alters mineral nutrient concentration in rice. <i>PLoS ONE</i> , 2018, 13, e0194691.	2.5	46
8	Aluminum Enhances Growth and Sugar Concentration, Alters Macronutrient Status and Regulates the Expression of NAC Transcription Factors in Rice. <i>Frontiers in Plant Science</i> , 2017, 8, 73.	3.6	43
9	Nanophosphorus Fertilizer Stimulates Growth and Photosynthetic Activity and Improves P Status in Rice. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-11.	2.7	36
10	Lanthanum Affects Bell Pepper Seedling Quality Depending on the Genotype and Time of Exposure by Differentially Modifying Plant Height, Stem Diameter and Concentrations of Chlorophylls, Sugars, Amino Acids, and Proteins. <i>Frontiers in Plant Science</i> , 2017, 8, 308.	3.6	35
11	Flavonoid, Nitrate and Glucosinolate Concentrations in Brassica Species Are Differentially Affected by Photosynthetically Active Radiation, Phosphate and Phosphite. <i>Frontiers in Plant Science</i> , 2019, 10, 371.	3.6	33
12	Transgenic tobacco plants overexpressing pyruvate phosphate dikinase increase exudation of organic acids and decrease accumulation of aluminum in the roots. <i>Plant and Soil</i> , 2010, 326, 187-198.	3.7	32
13	Diacylglycerol Kinases Are Widespread in Higher Plants and Display Inducible Gene Expression in Response to Beneficial Elements, Metal, and Metalloid Ions. <i>Frontiers in Plant Science</i> , 2017, 08, 129.	3.6	25
14	Silicon induces hormetic dose-response effects on growth and concentrations of chlorophylls, amino acids and sugars in pepper plants during the early developmental stage. <i>PeerJ</i> , 2020, 8, e9224.	2.0	25
15	Biosynthesis of Silver Nanoparticles Using <i>Chenopodium ambrosioides</i> . <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	2.7	24
16	The effects of phosphite on strawberry yield and fruit quality. <i>Journal of Soil Science and Plant Nutrition</i> , 2013, , 0-0.	3.4	23
17	The Role of Beneficial Elements in Triggering Adaptive Responses to Environmental Stressors and Improving Plant Performance. , 2018, , 137-172.		22
18	The Chilhuacle Chili (<i>Capsicum annum</i> L.) in Mexico: Description of the Variety, Its Cultivation, and Uses. <i>International Journal of Agronomy</i> , 2017, 2017, 1-13.	1.2	20

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19	Silver Nanoparticles Increase Nitrogen, Phosphorus, and Potassium Concentrations in Leaves and Stimulate Root Length and Number of Roots in Tomato Seedlings in a Hormetic Manner. Dose-Response, 2021, 19, 155932582110445.	1.6	19
20	Expression patterns and promoter analyses of aluminum-responsive NAC genes suggest a possible growth regulation of rice mediated by aluminum, hormones and NAC transcription factors. PLoS ONE, 2017, 12, e0186084.	2.5	18
21	An efficient protocol for commercial micropropagation of malanga (<i>Colocasia esculenta</i> L. Schott) using temporary immersion. Scientia Horticulturae, 2020, 261, 108998.	3.6	18
22	NAC transcription factor expression, amino acid concentration and growth of elite rice cultivars upon salt stress. Acta Physiologiae Plantarum, 2014, 36, 1927-1936.	2.1	16
23	In Vitro Screening of Sugarcane Cultivars (<i>Saccharum</i> spp. Hybrids) for Tolerance to Polyethylene Glycol-Induced Water Stress. Agronomy, 2021, 11, 598.	3.0	16
24	PHOSPHITE ON GROWTH AND FRUIT QUALITY IN STRAWBERRY. Acta Horticulturae, 2012, , 277-282.	0.2	15
25	Phosphite as an Inductor of Adaptive Responses to Stress and Stimulator of Better Plant Performance. , 2018, , 203-238.		15
26	Silicon Stimulates Plant Growth and Metabolism in Rice Plants under Conventional and Osmotic Stress Conditions. Plants, 2021, 10, 777.	3.5	14
27	BIOCHEMICAL RESPONSES IN STRAWBERRY PLANTS SUPPLYING PHOSPHORUS IN THE FORM OF PHOSPHITE. Revista Chapingo, Serie Horticultura, 2011, XVII, 129-138.	0.4	14
28	Silicon stimulates initial growth and chlorophyll <i>a/b</i> ratio in rice seedlings, and alters the concentrations of Ca, B, and Zn in plant tissues. Journal of Plant Nutrition, 2019, 42, 1928-1940.	1.9	13
29	Lanthanum Prolongs Vase Life of Cut Tulip Flowers by Increasing Water Consumption and Concentrations of Sugars, Proteins and Chlorophylls. Scientific Reports, 2020, 10, 4209.	3.3	12
30	The Agro-Industrial Sugarcane System in Mexico: Current Status, Challenges and Opportunities. Journal of Agricultural Science, 2014, 6, 26.	0.2	11
31	Silicon flow from root to shoot in pepper: a comprehensive in silico analysis reveals a potential linkage between gene expression and hormone signaling that stimulates plant growth and metabolism. PeerJ, 2020, 8, e10053.	2.0	11
32	Osmotic stress affects growth, content of chlorophyll, abscisic acid, Na ⁺ , and K ⁺ , and expression of novel NAC genes in contrasting rice cultivars. Biologia Plantarum, 2018, 62, 307-317.	1.9	10
33	Biostimulant Effects of Cerium on Seed Germination and Initial Growth of Tomato Seedlings. Agronomy, 2021, 11, 1525.	3.0	10
34	Bioaccumulation of iron, selenium, nitrate, and proteins in chard shoots. Journal of Soil Science and Plant Nutrition, 2015, , 0-0.	3.4	9
35	Plant and microbe genomics and beyond: potential for developing a novel molecular plant nutrition approach. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	9
36	Nutraceutical Characteristics of the Extracts and Juice of Chayote (<i>Sechium edule</i> (Jacq.) Sw.) Fruits. Beverages, 2018, 4, 37.	2.8	9

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37	Effect of antioxidants and pH on browning and firmness of minimally processed eggplant. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2020, 48, 79-89.	1.1	8
38	Multi-Walled Carbon Nanotubes Improved Development during In Vitro Multiplication of Sugarcane (<i>Saccharum</i> spp.) in a Semi-Automated Bioreactor. <i>Plants</i> , 2021, 10, 2015.	3.5	8
39	Iodine, Silicon, and Vanadium Differentially Affect Growth, Flowering, and Quality Components of Stalks in Sugarcane. <i>Sugar Tech</i> , 2018, 20, 518-533.	1.8	7
40	Synthesis of biopolymeric particles loaded with phosphorus and potassium: characterisation and release tests. <i>IET Nanobiotechnology</i> , 2019, 13, 493-497.	3.8	7
41	Growth, yield and fruit quality of Mexican tomato landraces in response to salt stress. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2021, 49, 12005.	1.1	7
42	Effect and Compatibility of Phosphite with <i>Trichoderma</i> sp. Isolates in the Control of the <i>Fusarium</i> Species Complex Causing Pokkah Boeng in Sugarcane. <i>Agronomy</i> , 2021, 11, 1099.	3.0	7
43	Sugarcane as a Novel Biofactory: Potentialities and Challenges. , 2014, , 129-149.		7
44	The in vitro propagation system of <i>Citrus Ã— latifolia</i> (Yu. Tanaka) Yu. Tanaka (Rutaceae) affects the growth and depletion of nutriment. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2019, 55, 290-295.	2.1	6
45	Nitrogen and potassium supplied by phenological stages affect the carotenoid and nutritive content of the tomato fruit. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2021, 49, 12320.	1.1	6
46	Titanium Increases the Antioxidant Activity and Macronutrient Concentration in Tomato Seedlings Exposed to Salinity in Hydroponics. <i>Plants</i> , 2022, 11, 1036.	3.5	6
47	Lanthanum delays senescence and improves postharvest quality in cut tulip (<i>Tulipa gesneriana</i> L.) flowers. <i>Scientific Reports</i> , 2020, 10, 19437.	3.3	5
48	COMPOSICIÃ“N BIOACTIVA DE HOJAS DE CAFÃ“ DURANTE UN CICLO ANUAL. <i>Revista Fitotecnia Mexicana</i> , 2018, 41, 365-372.	0.1	5
49	Education, Science and Technology in Mexico: Challenges for Innovation. <i>International Education Studies</i> , 2017, 10, 115.	0.6	4
50	Gamma radiation and osmotic potential of the nutrient solution differentially affect macronutrient concentrations, pH and EC in chilhuacle pepper fruits. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 145-156.	1.5	4
51	Effect of titanium foliar applications on tomato fruits from plants grown under salt stress conditions. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2020, 48, 924-937.	1.1	4
52	First Report of Powdery Mildew in Chilhuacle Chili (<i>Capsicum annum</i>) Caused by <i>Leveillula taurica</i> in Southern Mexico. <i>Plant Disease</i> , 2016, 100, 2325-2325.	1.4	4
53	EFFECTS OF SILICON AND CALCIUM APPLICATION ON GROWTH, YIELD AND FRUIT QUALITY PARAMETERS OF CUCUMBER ESTABLISHED IN A SODIC SOIL. <i>Acta Scientiarum Polonorum, Hortorum Cultus</i> , 2020, 19, 149-158.	0.6	4
54	FACTORES DE TRANSCRIPCIÃ“N INVOLUCRADOS EN RESPUESTAS MOLECULARES DE LAS PLANTAS AL ESTRÃ“S OSMÃ“TICO. <i>Revista Fitotecnia Mexicana</i> , 2013, 36, 105.	0.1	4

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55	Agricultural Lignocellulosic Waste and Volcanic Rock Combinations Differentially Affect Seed Germination and Growth of Pepper (<i>Capsicum annum</i> L.). <i>BioResources</i> , 2014, 9, .	1.0	3
56	Gamma Radiation (⁶⁰ Co) Induces Mutation during In Vitro Multiplication of Vanilla (<i>Vanilla planifolia</i>) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.8	3
57	Nutrient Concentration in Vegetative Organs of the Orchid <i>Laelia anceps</i> subsp. <i>anceps</i> Based on Mineral Fertilization and Biofertilization. <i>Horticulture Journal</i> , 2018, 87, 541-548.	0.8	2
58	Soil Quality of Ananas comosus Cultivation Land in the Papaloapan Basin Region of Mexico after Wastes Addition as Fertilizer Supplement. <i>Agriculture (Switzerland)</i> , 2020, 10, 173.	3.1	2
59	RESPUESTAS FISIOLÓGICAS Y NUTRIMENTALES DE VARIEDADES DE ARROZ A LA CONCENTRACIÓN DE ALUMINIO. <i>Revista Fitotecnia Mexicana</i> , 2010, 33, 37.	0.1	2
60	CONCENTRACIÓN DE MICRONUTRIMENTOS Y CRECIMIENTO DE RAÍZ EN VARIEDADES DE ARROZ EXPUESTAS A ALUMINIO. <i>Revista Fitotecnia Mexicana</i> , 2014, 37, 243.	0.1	2
61	MODELOS DE SIMULACIÓN DEL CRECIMIENTO DE LECHUGA EN RESPUESTA A LA FERTILIZACIÓN ORGÁNICA Y MINERAL. <i>Revista Fitotecnia Mexicana</i> , 2014, 37, 249.	0.1	2
62	Respuesta del cultivo de maíz a la bio-inoculación y fertilización química reducida en campo. <i>Terra Latinoamericana</i> , 2020, 38, 597-612.	0.3	2
63	Vanadium stimulates growth and flower production in tomato without affecting seed germination. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2021, 49, 12400.	1.1	2
64	GROWTH INHIBITION AND CHANGES IN NUTRIENT ACCUMULATION IN CUCUMBER PLANTS UNDER SALINITY CONDITIONS. <i>Acta Horticulturae</i> , 2012, , 83-90.	0.2	1
65	PHYSIOLOGICAL RESPONSE OF RICE PLANTS GROWING UNDER OSMOTIC STRESS IN HYDROPONICS. <i>Acta Horticulturae</i> , 2012, , 401-408.	0.2	1
66	Characterization of <i>Scaptotrigona mexicana</i> Pot-Pollen from Veracruz, Mexico. , 2018, , 325-337.		1
67	Plant growth and nitrogen concentration of <i>Tillandsia</i> species produced in organic, volcanic, and lignocellulosic substrates. <i>Journal of Plant Nutrition</i> , 2018, 41, 2547-2559.	1.9	1
68	Analysis by response surface methodology of gold nanoparticles obtained by green chemical reduction using aqueous coffee pulp extract (<i>Coffea arabica</i>). <i>Canadian Journal of Chemistry</i> , 0, , .	1.1	1
69	Effects of public policies on the sustainability of the biofuels value chain. , 2021, , 345-379.		1
70	ANATOMÍA, CONTENIDOS DE ÁCIDO ABSORCIÓN Y NUTRIMENTOS Y GERMINACIÓN DE SEMILLAS DE HELICONIA. <i>Revista Fitotecnia Mexicana</i> , 2011, 34, 189.	0.1	1
71	Análisis distribucional de la abeja sin aguijón <i>Scaptotrigona mexicana</i> (Apidae: Meliponini) en México: Información de referencia para Veracruz. <i>Agro Productividad</i> , 2019, 12, .	0.1	1
72	Advances in the selection program of sugarcane (<i>Saccharum</i> spp.) varieties in the Colegio de Postgraduados. <i>Agro Productividad</i> , 2020, 13, .	0.1	1

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73	The genetics of silicon accumulation in plants. , 2022, , 67-75.		1
74	Thallium Differentially Affects Macronutrients Concentration and Stoichiometric Ratios with Nitrogen in the Leaves of Chili Pepper Varieties. Water, Air, and Soil Pollution, 2022, 233, .	2.4	1
75	Application of phosphite as a biostimulant in agriculture. , 2022, , 135-153.		1
76	NUTRIENT SOLUTIONS AND TRADITIONAL PRODUCTION SYSTEM OF CHRYSANTHEMUM ON GROWTH AND NUTRIENT CONCENTRATION IN LEAVES. Acta Horticulturae, 2012, , 283-290.	0.2	0
77	USE OF NUTRIENT SOLUTIONS AND TRADITIONAL PRODUCTION SYSTEM OF CHRYSANTHEMUM ON POSTHARVEST QUALITY. Acta Horticulturae, 2012, , 291-298.	0.2	0
78	PCR diagnosis and in vitro sanitation of the papaya MSXJ hybrid with ringspot virus disease. Chilean Journal of Agricultural Research, 2019, 79, 376-384.	1.1	0
79	Cerium (Ce) Affects the Phenological Cycle and the Quality of Tulip (<i>Tulipa gesneriana</i> L.). Agro Productividad, 2021, 14, .	0.1	0
80	La exposici3n de plantas de arroz (<i>Oryza sativa</i> L.) a nanopart3culas de plata afecta la expresi3n de genes multifuncionales NAC. Agro Productividad, 2019, 12, .	0.1	0
81	Áreas verdes urbanas en C3rdoba, Veracruz, cantidad, ubicaci3n y acceso: un an3lisis ortogonal. Revista Mexicana De Ciencias Agrícolas, 2019, 10, 1565-1578.	0.2	0
82	La acuapon3a r3stica: una alternativa para contribuir a la soberan3a alimentaria en comunidades rurales. Agro Productividad, 2019, 12, .	0.1	0
83	POTENCIAL FUNCIONAL Y NUTRAC3UTICO DE HOJAS DE CAF3 INJERTADO (<i>Coffea</i> spp.) DURANTE UN CICLO ANUAL. Agrociencia, 2020, 54, 459-469.	0.1	0
84	Caracterizaci3n de la oferta de moringa (<i>Moringa oleifera</i> Lam.) en M3xico. Agro Productividad, 2020, 13, .	0.1	0
85	Nitrogen supply and shading affect morphology and composition of the essential oil in marigold (<i>Tagetes erecta</i> L.). Folia Horticulturae, 2020, 32, 241-254.	1.8	0