RocÃ-o I DÃ-az De La Garza

List of Publications by Year
in descending order

39 papers	1,629 citations	331670 21 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	1864 citing authors

#	Article	IF	Citations
1	Folate biofortification of tomato fruit. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4218-4222.	7.1	223
2	Folate biofortification in tomatoes by engineering the pteridine branch of folate synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13720-13725.	7.1	195
3	Comparative genomics of bacterial and plant folate synthesis and salvage: predictions and validations. BMC Genomics, 2007, 8, 245.	2.8	133
4	Plant Î³-Glutamyl Hydrolases and Folate Polyglutamates. Journal of Biological Chemistry, 2005, 280, 28877-28884.	3.4	89
5	DNA manipulation by means of insulatorâ€based dielectrophoresis employing direct current electric fields. Electrophoresis, 2009, 30, 4195-4205.	2.4	89
6	Higher Plant Plastids and Cyanobacteria Have Folate Carriers Related to Those of Trypanosomatids. Journal of Biological Chemistry, 2005, 280, 38457-38463.	3.4	83
7	Folate synthesis in plants: The first step of the pterin branch is mediated by a unique bimodular GTP cyclohydrolase I. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12489-12494.	7.1	80
8	5-Formyltetrahydrofolate Is an Inhibitory but Well Tolerated Metabolite in Arabidopsis Leaves. Journal of Biological Chemistry, 2005, 280, 26137-26142.	3.4	72
9	MTHFD1 controls DNA methylation in Arabidopsis. Nature Communications, 2016, 7, 11640.	12.8	61
10	The Folylpolyglutamate Synthetase Plastidial Isoform Is Required for Postembryonic Root Development in Arabidopsis Â Â. Plant Physiology, 2011, 155, 1237-1251.	4.8	54
11	GridMass: a fast two-dimensional feature detection method for LC/MS. Journal of Mass Spectrometry, 2015, 50, 165-174.	1.6	52
12	Evidence for folateâ€salvage reactions in plants. Plant Journal, 2006, 46, 426-435.	5.7	44
13	Broccoli (Brassica oleracea var. italica) Sprouts and Extracts Rich in Glucosinolates and Isothiocyanates Affect Cholesterol Metabolism and Genes Involved in Lipid Homeostasis in Hamsters. Journal of Agricultural and Food Chemistry, 2011, 59, 1095-1103.	5.2	41
14	Metabolic engineering of folate and its precursors in Mexican common bean (Phaseolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	8.3	36
15	The root indeterminacyâ€toâ€determinacy developmental switch is operated through a folateâ€dependent pathway in <scp>A</scp>rabidopsis thaliana. New Phytologist, 2014, 202, 1223-1236.	7.3	34
16	Avocado fruit maturation and ripening: dynamics of aliphatic acetogenins and lipidomic profiles from mesocarp, idioblasts and seed. BMC Plant Biology, 2017, 17, 159.	3.6	34
17	High hydrostatic pressure treatments trigger de novo carotenoid biosynthesis in papaya fruit (Carica) Tj ETQq1 1 0.784314 rgBT /Ove	8.2	31
18	Folate analysis in complex food matrices: Use of a recombinant Arabidopsis Î³-glutamyl hydrolase for folate deglutamylation. Food Research International, 2013, 54, 177-185.	6.2	24

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19	Folate Levels and Polyglutamylation Profiles of Papaya (Carica papaya cv. Maradol) during Fruit Development and Ripening. Journal of Agricultural and Food Chemistry, 2013, 61, 3949-3956.	5.2	23
20	A targeted metabolomics approach to characterize acetogenin profiles in avocado fruit (Persea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	3.6	23
21	Ethylene treatment induces changes in folate profiles in climacteric fruit during postharvest ripening. Postharvest Biology and Technology, 2016, 118, 43-50.	6.0	23
22	Biochemical and Genetic Analysis of Methylenetetrahydrofolate Reductase in Leishmania Metabolism and Virulence*. Journal of Biological Chemistry, 2006, 281, 38150-38158.	3.4	22
23	Natural Folates from Biofortified Tomato and Synthetic 5-methyl-tetrahydrofolate Display Equivalent Bioavailability in a Murine Model. Plant Foods for Human Nutrition, 2014, 69, 57-64.	3.2	20
24	Purified avocado seed acetogenins: Antimicrobial spectrum and complete inhibition of Listeria monocytogenes in a refrigerated food matrix. CYTA - Journal of Food, 2019, 17, 228-239.	1.9	16
25	Quantification of folate in food using deconjugase of plant origin combined with LC-MS/MS: A method comparison of a large and diverse sample set. Food Chemistry, 2020, 305, 125450.	8.2	16
26	In Vivo Rate of Formaldehyde Condensation with Tetrahydrofolate. Metabolites, 2020, 10, 65.	2.9	16
27	Isolation of wheat mutants with higher grain phenolics to enhance anti-oxidant potential. Food Chemistry, 2020, 303, 125363.	8.2	15
28	Chemical Profile and Safety Assessment of a Food-Grade Acetogenin-Enriched Antimicrobial Extract from Avocado Seed. Molecules, 2019, 24, 2354.	3.8	13
29	Effects of Substrate Salinity and Nutrient Levels on Physiological Response, Yield, and Fruit Quality of Habanero Pepper. Hortscience: A Publication of the American Society for Hortcultural Science, 2014, 49, 812-818.	1.0	13
30	Expression Levels of the Î³-Glutamyl Hydrolase I Gene Predict Vitamin B9 Content in Potato Tubers. Agronomy, 2019, 9, 734.	3.0	12
31	The use of a plant enzyme for rapid and sensitive analysis of naturally-occurring folates in food by liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2019, 1594, 34-44.	3.7	9
32	Insights into Drivers of Liking for Avocado Pulp (Persea americana): Integration of Descriptive Variables and Predictive Modeling. Foods, 2021, 10, 99.	4.3	9
33	Interkingdom Comparison of Threonine Metabolism for Stem Cell Maintenance in Plants and Animals. Frontiers in Cell and Developmental Biology, 2021, 9, 672545.	3.7	7
34	Experimental and Metabolic Modeling Evidence for a Folate-Cleaving Side-Activity of Ketopantoate Hydroxymethyltransferase (PanB). Frontiers in Microbiology, 2016, 7, 431.	3.5	6
35	The plastidial folylpolyglutamate synthetase and root apical meristem maintenance. Plant Signaling and Behavior, 2011, 6, 751-754.	2.4	5
36	The Enigmatic Aliphatic Acetogenins and Their Correlations With Lipids During Seed Germination and Leaf Development of Avocado (Persea americana Mill.). Frontiers in Plant Science, 2022, 13, 839326.	3.6	3

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37	The complexity of folate polyglutamylation in plants: Postharvest ripening and ethylene modulate polyglutamylated profiles in climacteric fruits plus systematic analysis of the glutamyl tail-editing enzymes. Scientia Horticulturae, 2020, 273, 109588.	3.6	1
38	High Hydrostatic Pressure Modulates the Folate and Ascorbic Acid Accumulation in Papaya (Carica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.9	1
39	Biofortification of Crops with Folates: From Plant Metabolism to Table. Concepts and Strategies in Plant Sciences, 2019, , 137-175.	0.5	1