Michael A Grusak

List of Publications by Year
in descending order

55 papers	2,536 citations	257450 24 h-index	197818 49 g-index
58 all docs	58 docs citations	58 times ranked	3437 citing authors

#	Article	IF	Citations
1	Towards predicting biochar impacts on plant-available soil nitrogen content. Biochar, 2022, 4, 1.	12.6	20
2	Stacking disease resistance and mineral biofortification in cassava varieties to enhance yields and consumer health. Plant Biotechnology Journal, 2021, 19, 844-854.	8.3	17
3	Biofortification of field-grown cassava by engineering expression of an iron transporter and ferritin. Nature Biotechnology, 2019, 37, 144-151.	17.5	89
4	Plasma Response to Deuterium-Labeled Vitamin K Intake Varies by TG Response, but Not Age or Vitamin K Status, in Older and Younger Adults. Journal of Nutrition, 2019, 149, 18-25.	2.9	9
5	Influence of alternative soil amendments on mycorrhizal fungi and cowpea production. Heliyon, 2018, 4, e00704.	3.2	16
6	A rapid and efficient method to study the function of crop plant transporters in Arabidopsis. Protoplasma, 2017, 254, 737-747.	2.1	4
7	Nutritional composition and cooking characteristics of tepary bean (Phaseolus acutifolius Gray) in comparison with common bean (Phaseolus vulgaris L.). Genetic Resources and Crop Evolution, 2017, 64, 935-953.	1.6	21
8	Minerals, vitamin C, phenolics, flavonoids and antioxidant activity of Amaranthus leafy vegetables. Journal of Food Composition and Analysis, 2017, 58, 33-39.	3.9	117
9	National Academies report has broad support. Nature Biotechnology, 2017, 35, 304-306.	17.5	3
10	Use of a â€œSuper-childâ€•Approach to Assess the Vitamin A Equivalence of Moringa oleifera Leaves, Develop a Compartmental Model for Vitamin A Kinetics, and Estimate Vitamin A Total Body Stores in Young Mexican Children. Journal of Nutrition, 2017, 147, 2356-2363.	2.9	49
11	Arabidopsis Glutaredoxin S17 Contributes to Vegetative Growth, Mineral Accumulation, and Redox Balance during Iron Deficiency. Frontiers in Plant Science, 2017, 8, 1045.	3.6	20
12	Absorption and Excretion of Vitamin K Varies by Age and Triglycerides: A Metabolic Study in Older and Younger Adults Using Deuteriumâ€Labeled Collard Greens. FASEB Journal, 2017, 31, 148.3.	0.5	0
13	Leaf Protein and Mineral Concentrations across the â€œMiracle Treeâ€•Genus Moringa. PLoS ONE, 2016, 11, e0159782.	2.5	54
14	Seed Protein Percentage and Mineral Concentration Variability and Their Correlation with Other Seed Quality Traits in the U.S. Peanut Mini-Core Collection. Peanut Science, 2016, 43, 119-125.	0.1	6
15	Plant fluid proteomics: Delving into the xylem sap, phloem sap and apoplastic fluid proteomes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 991-1002.	2.3	63
16	Effects of Fe deficiency on the protein profiles and lignin composition of stem tissues from Medicago truncatula in absence or presence of calcium carbonate. Journal of Proteomics, 2016, 140, 1-12.	2.4	12
17	Demonstrating a Nutritional Advantage to the Fast-Cooking Dry Bean (Phaseolus vulgaris L.). Journal of Agricultural and Food Chemistry, 2016, 64, 8592-8603.	5.2	40
18	Effects of Fe deficiency on the protein profile of Brassica napus phloem sap. Proteomics, 2015, 15, 3835-3853.	2.2	15

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19	A Phaseolus vulgaris Diversity Panel for Andean Bean Improvement. Crop Science, 2015, 55, 2149-2160.	1.8	133
20	Î±-Tocopherol disappearance rates from plasma depend on lipid concentrations: studies using deuterium-labeled collard greens in younger and older adults. American Journal of Clinical Nutrition, 2015, 101, 752-759.	4.7	38
21	Association mapping of agronomic and quality traits in USDA pea single-plant collection. Molecular Breeding, 2015, 35, 1.	2.1	43
22	Evaluation of Minerals, Phytochemical Compounds and Antioxidant Activity of Mexican, Central American, and African Green Leafy Vegetables. Plant Foods for Human Nutrition, 2015, 70, 357-364.	3.2	44
23	Overexpression of Arabidopsis VIT1 increases accumulation of iron in cassava roots and stems. Plant Science, 2015, 240, 170-181.	3.6	55
24	Concentrations of minerals and phenolic compounds in three edible sprout species treated with iron-chelates during imbibition. Horticulture Environment and Biotechnology, 2014, 55, 471-478.	2.1	18
25	Morpho-physiological parameters affecting iron deficiency chlorosis in soybean (Glycine max L.). Plant and Soil, 2014, 374, 161-172.	3.7	48
26	Effects of nano-ZnO on the agronomically relevant Rhizobium â€“legume symbiosis. Science of the Total Environment, 2014, 497-498, 78-90.	8.0	67
27	Target region amplification polymorphism (TRAP) for assessing genetic diversity and marker-trait associations in chickpea (Cicer arietinum L.) germplasm. Genetic Resources and Crop Evolution, 2014, 61, 965-977.	1.6	8
28	Evaluation of biogeographical factors in the native range to improve the success of biological control agents in the introduced range. Biocontrol Science and Technology, 2013, 23, 1213-1230.	1.3	9
29	Effect of Gypsum Application on Mineral Composition in Peanut Pod Walls and Seeds. Crop Science, 2013, 53, 1658-1667.	1.8	10
30	Fatty Acid, Flavonol, and Mineral Composition Variability among Seven Macrotyloma uniflorum (Lam.) Verdc. Accessions. Agriculture (Switzerland), 2013, 3, 157-169.	3.1	18
31	Response to the Letter to the Editor of Crop Science from Donald R. Davis Regarding Our Research Article Entitled â€œMineral Concentration of Broccoli Florets in Relation to Year of Cultivar Releaseâ€•Published in Crop Science (2011 51:2721â€“2727). Crop Science, 2013, 53, 1830-1831.	1.8	0
32	Application of in vitro bioaccessibility and bioavailability methods for calcium, carotenoids, folate, iron, magnesium, polyphenols, zinc, and vitamins B6, B12, D, and E. Frontiers in Physiology, 2012, 3, 317.	2.8	243
33	The Scientific Grand Challenges of the 21st Century for the Crop Science Society of America. Crop Science, 2012, 52, 1003-1010.	1.8	21
34	Quantitative trait locus analysis of root ferric reductase activity and leaf chlorosis in the model legume, Lotus japonicus. Plant and Soil, 2012, 351, 363-376.	3.7	14
35	Plasma alphaâ€tocopherol transport studied using deuteriumâ€labeled collard greens. FASEB Journal, 2012, 26, .	0.5	0
36	Mineral Concentration of Broccoli Florets in Relation to Year of Cultivar Release. Crop Science, 2011, 51, 2721-2727.	1.8	40

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37	EFFECT OF MATURITY STAGES FOR WINTER- AND SPRING-SOWN CHICKPEA (CICER ARIETINUML.) ON SEED MINERAL CONTENT. Journal of Plant Nutrition, 2010, 33, 2094-2103.	1.9	2
38	Reply to MB Krawinkel. American Journal of Clinical Nutrition, 2009, 90, 696-697.	4.7	0
39	Genetic Diversity for Seed Mineral Composition in the Wild Legume Teramnus labialis. Plant Foods for Human Nutrition, 2008, 63, 105-109.	3.2	5
40	Wholeâ€plant mineral partitioning throughout the life cycle in Arabidopsis thaliana ecotypes Columbia, Landsberg erecta, Cape Verde Islands, and the mutant line ysl1ysl3. New Phytologist, 2008, 177, 389-405.	7.3	142
41	Quantitative trait locus mapping for seed mineral concentrations in two Arabidopsis thaliana recombinant inbred populations. New Phytologist, 2008, 179, 1033-1047.	7.3	109
42	Characterization of the PT Clade of Oligopeptide Transporters in Rice. Plant Genome, 2008, 1, .	2.8	33
43	Bioconversion of spinach Î²â€carotene to vitamin A in Chinese children with normal or marginal vitamin A status. FASEB Journal, 2006, 20, A1319.	0.5	0
44	Golden Rice gets a boost from maize. Nature Biotechnology, 2005, 23, 429-430.	17.5	17
45	Functional analysis of transgenic rice (Oryza sativaL.) transformed with anArabidopsis thalianaferric reductase (AtFR02). Soil Science and Plant Nutrition, 2004, 50, 1151-1157.	1.9	20
46	Chickpea leaves as a vegetable green for humans: evaluation of mineral composition. Journal of the Science of Food and Agriculture, 2003, 83, 945-950.	3.5	70
47	Metal physiology and accumulation in a Medicago truncatula mutant exhibiting an elevated requirement for zinc. New Phytologist, 2003, 158, 207-218.	7.3	13
48	Carbohydrate Digestion in Humans from a Î²-Glucan-Enriched Barley Is Reduced. Journal of Nutrition, 2002, 132, 2593-2596.	2.9	37
49	Enhancing Mineral Content in Plant Food Products. Journal of the American College of Nutrition, 2002, 21, 178S-183S.	1.8	145
50	Phytochemicals in plants: genomics-assisted plant improvement for nutritional and health benefits. Current Opinion in Biotechnology, 2002, 13, 508-511.	6.6	37
51	Summary of the IX international symposium on iron nutrition and interactions in plants. Journal of Plant Nutrition, 2000, 23, 2083-2102.	1.9	2
52	IMPROVING THE NUTRIENT COMPOSITION OF PLANTS TO ENHANCE HUMAN NUTRITION AND HEALTH. Annual Review of Plant Biology, 1999, 50, 133-161.	14.3	416
53	Iron transport and storage within the seed coat and embryo of developing seeds of pea (Pisum) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	65
54	Intrinsic42Ca-Labelling of Green Bean Pods for Use in Human Bioavailability Studies. Journal of the Science of Food and Agriculture, 1996, 70, 11-15.	3.5	15

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55	Uniformly15N-labeled soybean seeds produced for use in human and animal nutrition studies: Description of a recirculating hydroponic growth system and whole plant nutrient and environmental requirements. Journal of the Science of Food and Agriculture, 1994, 64, 223-230.	3.5	24