Pathmanathan Umaharan

List of Publications by Year
in descending order

78	1,553	304743	395702
papers	citations	22 h-index	33 g-index

79	79	79	1291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast and neat â€“ Determination of biochemical quality parameters in cocoa using near infrared spectroscopy. Food Chemistry, 2015, 181, 152-159.	8.2	100
2	Population genomic analyses of the chocolate tree, Theobroma cacao L., provide insights into its domestication process. Communications Biology, 2018, 1, 167.	4.4	73
3	Distribution and Diversity of Geminiviruses in Trinidad and Tobago. Phytopathology, 1998, 88, 1262-1268.	2.2	68
4	Foliar Resistance to Phytophthora palmivora as an Indicator of Pod Resistance in Theobroma cacao. Plant Disease, 1997, 81, 619-624.	1.4	61
5	The effectiveness of soil amendments, biochar and lime, in mitigating cadmium bioaccumulation in Theobroma cacao L.. Science of the Total Environment, 2019, 693, 133563.	8.0	57
6	Discovery and mapping of a new expressed sequence tag-single nucleotide polymorphism and simple sequence repeat panel for large-scale genetic studies and breeding of Theobroma cacao L.. DNA Research, 2012, 19, 23-35.	3.4	52
7	The use of an optimised organoleptic assessment protocol to describe and quantify different flavour attributes of cocoa liquors made from Ghana and Trinitario beans. European Food Research and Technology, 2008, 226, 405-413.	3.3	50
8	Temporal and spatial expression of flavonoid biosynthetic genes in flowers of Anthurium andraeanum. Physiologia Plantarum, 2004, 122, 297-304.	5.2	49
9	Genetic variation in bioaccumulation and partitioning of cadmium in Theobroma cacao L.. Science of the Total Environment, 2018, 640-641, 696-703.	8.0	46
10	Mitigating the level of cadmium in cacao products: Reviewing the transfer of cadmium from soil to chocolate bar. Science of the Total Environment, 2021, 781, 146779.	8.0	43
11	The relic Criollo cacao in Belize â€“ genetic diversity and relationship with Trinitario and other cacao clones held in the International Cocoa Genebank, Trinidad. Plant Genetic Resources: Characterisation and Utilisation, 2010, 8, 106-115.	0.8	40
12	Association mapping of seed and disease resistance traits in Theobroma cacao L.. Planta, 2016, 244, 1265-1276.	3.2	30
13	Microsatellite variation and population structure in the â€œRefractarioâ€•cacao of Ecuador. Conservation Genetics, 2008, 9, 327-337.	1.5	29
14	Molecular characterization of previously elusive badnaviruses associated with symptomatic cacao in the New World. Archives of Virology, 2017, 162, 1363-1371.	2.1	28
15	Phytophthoraresistance in cacao (Theobroma cacao): Influence of pod morphological characteristics. Plant Pathology, 1997, 46, 557-565.	2.4	27
16	An optimized screening method for identifying levels of resistance to Crinipellis perniciosa in cocoa (Theobroma cacao). Plant Pathology, 2003, 52, 464-475.	2.4	27
17	Genetic Structure and Phylogenetic Relationships of Capsicum chinense. Journal of the American Society for Horticultural Science, 2012, 137, 250-262.	1.0	27
18	Genetic analysis of yield and its components in vegetable cowpea (Vigna unguiculata L. Walp). Euphytica, 1997, 96, 207-213.	1.2	25

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19	Microsatellite based analysis of the genetic structure and diversity of Capsicum chinense in the Neotropics. Genetic Resources and Crop Evolution, 2014, 61, 741-755.	1.6	25
20	Effect of Cowpea severe mosaic virus on Crop Growth Characteristics and Yield of Cowpea. Plant Disease, 2005, 89, 515-520.	1.4	23
21	Wide genetic diversity of Ralstonia solanacearum strains affecting tomato in Trinidad, West Indies. Plant Pathology, 2012, 61, 844-857.	2.4	23
22	Title is missing!. Euphytica, 1997, 96, 377-383.	1.2	22
23	Cultivar differences in the deterioration of vase-life in cut-flowers of Anthurium andraeanum is determined by mechanisms that regulate water uptake. Scientia Horticulturae, 2010, 124, 102-108.	3.6	22
24	Microsatellite-aided detection of genetic redundancy improves management of the International Cocoa Genebank, Trinidad. Tree Genetics and Genomes, 2013, 9, 1395-1411.	1.6	22
25	Sensing fermentation degree of cocoa (Theobroma cacao L.) beans by machine learning classification models based electronic nose system. Journal of Food Process Engineering, 2019, 42, e13175.	2.9	22
26	Optimization of an Agrobacterium-mediated Transient Assay for Gene Expression Studies in Anthurium andraeanum. Journal of the American Society for Horticultural Science, 2012, 137, 263-272.	1.0	22
27	Increasing Accuracy and Throughput in Large-Scale Microsatellite Fingerprinting of Cacao Field Germplasm Collections. Tropical Plant Biology, 2009, 2, 23-37.	1.9	21
28	Climate adaptation in a minor crop species: is the cocoa breeding network prepared for climate change?. Agroecology and Sustainable Food Systems, 2018, 42, 812-833.	1.9	20
29	Title is missing!. Euphytica, 2001, 118, 295-303.	1.2	19
30	Assessment of Resistance to Witches'-Broom Disease in Clonal and Segregating Populations of Theobroma cacao. Plant Disease, 2004, 88, 797-803.	1.4	19
31	Effect of short-term waterlogging applied at various growth phases on growth, development and yield in Vigna unguiculata. Journal of Agricultural Science, 1997, 128, 189-198.	1.3	18
32	Extensive Settlement of the Invasive Meam1 population ofBemisia tabaci(Hemiptera: Aleyrodidae) in the Caribbean and Rare Detection of Indigenous Populations. Environmental Entomology, 2011, 40, 989-998.	1.4	18
33	Inheritance of Major Spathe Colors in Anthurium andraeanum Hort. Is Determined by Three Major Genes. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 787-791.	1.0	18
34	Morphophysiological Characteristics Associated with Vase Life of Cut Flowers of Anthurium. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 825-831.	1.0	18
35	Identification of reference genes for expression studies using quantitative RT-PCR in spathe tissue of Anthurium andraeanum (Hort.). Scientia Horticulturae, 2013, 153, 1-7.	3.6	17
36	A molecular assessment of the genetic model of spathe color inheritance in Anthurium andraeanum (Hort.). Planta, 2014, 239, 695-705.	3.2	17

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37	Development of a core SNP panel for cacao (Theobroma cacao L.) identity analysis. Genome, 2020, 63, 103-114.	2.0	17
38	Photochemical responses to light in sun and shade leaves of Theobroma cacao L. (West African) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	3.6	17
39	Detection of Begomoviruses in Clarified Plant Extracts: A Comparison of Standard, Direct-Binding, and Immunocapture Polymerase Chain Reaction Techniques. Phytopathology, 2003, 93, 1153-1157.	2.2	16
40	Microsatellite fingerprinting in the International Cocoa Genebank, Trinidad: accession and plot homogeneity information for germplasm management. Plant Genetic Resources: Characterisation and Utilisation, 2011, 9, 430-438.	0.8	16
41	Title is missing!. Euphytica, 1997, 96, 323-326.	1.2	15
42	Partial 16S rRNA gene sequence diversity and numerical taxonomy of slow growing pigeonpea (Cajanus) Tj ETQq0 0 0 rgBT /Overlock 10	1.8	15
43	Identification of resistance to Cercospora leaf spot of cowpea. European Journal of Plant Pathology, 2007, 118, 401-410.	1.7	14
44	A quantitative screening method for the detection of foliar resistance to Xanthomonas axonopodis pv. dieffenbachiae in anthurium. European Journal of Plant Pathology, 2008, 121, 35-42.	1.7	14
45	Morphological and genetic diversity of cacao (Theobroma cacao L.) in Uganda. Physiology and Molecular Biology of Plants, 2019, 25, 361-375.	3.1	14
46	Plant metal concentrations in Theobroma cacao as affected by soil metal availability in different soil types. Chemosphere, 2021, 262, 127749.	8.2	14
47	Fruit Trait Variation in a Caribbean Germplasm Collection of Aromatic Hot Peppers (Capsicum chinense) Tj ETQq1 1 0.784314 rgBT /O	1.0	14
48	Genetic analysis of pod quality characteristics in vegetable cowpea (Vigna unguiculata L. Walp.). Scientia Horticulturae, 1997, 70, 281-292.	3.6	12
49	A green fluorescent protein-based screening method for identification of resistance in anthurium to systemic infection by Xanthomonas axonopodis pv. dieffenbachiae. Plant Pathology, 2007, 56, 819-827.	2.4	12
50	Spathe Color Variation in Anthurium andraeanum Hort. and Its Relationship to Vacuolar pH. Hortscience: A Publication of the American Society for Hortcultural Science, 2010, 45, 1768-1772.	1.0	12
51	Genetic Basis of Resistance to Systemic Infection by Xanthomonas axonopodis pv. dieffenbachiae in Anthurium. Phytopathology, 2008, 98, 421-426.	2.2	11
52	Inheritance of Resistance to Foliar Infection by Xanthomonas axonopodis pv. dieffenbachiae in Anthurium. Plant Disease, 2010, 94, 1243-1247.	1.4	10
53	The Impact of Pollen Donor on Flavor in Cocoa. Journal of the American Society for Horticultural Science, 2017, 142, 13-19.	1.0	10
54	Genotypic Variation in Senescence and Water Relations in Cut Flowers of Anthurium andraeanum (Hort.). Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 1333-1337.	1.0	10

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55	Title is missing!. Euphytica, 1997, 95, 49-55.	1.2	9
56	Proteomic and peptidomic UHPLC-ESI MS/MS analysis of cocoa beans fermented using the Styrofoam-box method. Food Chemistry, 2020, 316, 126350.	8.2	9
57	Identification of Resistance to Potato yellow mosaic virus-Trinidad Isolate (PYMV-TT) Among Lycopersicon Species. Plant Disease, 2003, 87, 686-691.	1.4	8
58	Quantitative resistance to Cercospora leaf spot disease caused by Pseudocercospora cruenta in cowpea. Euphytica, 2008, 162, 167-177.	1.2	8
59	Elucidation of genetic identity and population structure of cacao germplasm within an international cacao genebank. Plant Genetic Resources: Characterisation and Utilisation, 2012, 10, 232-241.	0.8	8
60	Genetic diversity and ancestry of cacao (Theobroma cacao L.) in Dominica revealed by single nucleotide polymorphism markers. Genome, 2020, 63, 583-595.	2.0	7
61	Identification of Cacao Mild Mosaic Virus (CaMMV) and Cacao Yellow Vein-Banding Virus (CYVBV) in Cocoa (Theobroma cacao) Germplasm. Viruses, 2021, 13, 2152.	3.3	7
62	The inheritance of systemic resistance to the bacterial blight pathogen (Xanthomonas axonopodis pv.) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	6
63	Plant and fruit trait variations among four Capsicum species in a Caribbean germplasm collection. Plant Genetic Resources: Characterisation and Utilisation, 2014, 12, 48-57.	0.8	6
64	Inheritance and combining ability studies of pod physical and biochemical quality traits in vegetable pigeonpea (Cajanus cajan L. Millsp). Euphytica, 2010, 176, 37-47.	1.2	5
65	The impact of light on vase life in (Anthurium andraeanum Hort.) cut flowers. Postharvest Biology and Technology, 2020, 159, 110984.	6.0	5
66	Expression Analysis of the Anthocyanin Genes in Pink Spathes of Anthurium with Different Color Intensities. Journal of the American Society for Horticultural Science, 2015, 140, 480-489.	1.0	5
67	Interrelationships between yield and its components in hot pepper (Capsicum chinense Jacq.). Scientia Horticulturae, 2021, 287, 110254.	3.6	4
68	Mitigation of cadmium uptake in Theobroma cacao L: efficacy of soil application methods of hydrated lime and biochar. Plant and Soil, 2022, 477, 281-296.	3.7	4
69	Identification of Field Resistance to Bacterial Leaf Spot Disease of Anthurium under Natural Epiphytotics in Trinidad. Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 89-93.	1.0	3
70	Morphological Changes Associated with Postharvest Fruit Deterioration and Physical Parameters for Early Determination of Shelf Life in Capsicum chinense Jacq.. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 1537-1541.	1.0	3
71	Comparative transcriptomic analysis reveals key components controlling spathe color in Anthurium andraeanum (Hort.). PLoS ONE, 2021, 16, e0261364.	2.5	3
72	Genetic variation in high light responses of Theobroma cacao L. accessions. Heliyon, 2021, 7, e07404.	3.2	2

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73	A rapid leaf-disc vacuum-infiltration screening for assessing resistance to bacterial leaf spot disease in anthurium. Scientia Horticulturae, 2021, 288, 110344.	3.6	2
74	Status of Bacterial Leaf Spot Disease of Anthurium in Trinidad and Characterization of Native Isolates of the Causal Organism, Acidovorax anthurii. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 1023-1027.	1.0	2
75	A Study of Morphophysiological Descriptors of Cultivated Anthurium andraeanum Hort.. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 1234-1240.	1.0	2
76	Genetic Basis for Productivity in Anthurium andraeanum Hort.. Hortscience: A Publication of the American Society for Hortcultural Science, 2014, 49, 859-863.	1.0	2
77	A first approach to develop a quantitative screening method to identify resistance to bacterial leaf spot disease caused by Acidovorax anthurii in anthurium. European Journal of Plant Pathology, 2021, 160, 147-159.	1.7	1
78	Selection criteria for yield in hot pepper (Capsicum chinense Jacq.). New Zealand Journal of Crop and Horticultural Science, 0, , 1-17.	1.3	1