David M Francis

List of Publications by Year
in descending order

55 papers	2,794 citations	172457 29 h-index	175258 52 g-index
57 all docs	57 docs citations	57 times ranked	3111 citing authors

#	Article	IF	Citations
1	Development of a Large SNP Genotyping Array and Generation of High-Density Genetic Maps in Tomato. PLoS ONE, 2012, 7, e40563.	2.5	313
2	Lycopene from heat-induced cis-isomer-rich tomato sauce is more bioavailable than from all-trans-rich tomato sauce in human subjects. British Journal of Nutrition, 2007, 98, 140-146.	2.3	196
3	High-Density SNP Genotyping of Tomato (Solanum lycopersicum L.) Reveals Patterns of Genetic Variation Due to Breeding. PLoS ONE, 2012, 7, e45520.	2.5	164
4	Enhanced bioavailability of lycopene when consumed as <i>cis</i>â€isomers from <i>tangerine</i> compared to red tomato juice, a randomized, crossâ€over clinical trial. Molecular Nutrition and Food Research, 2015, 59, 658-669.	3.3	163
5	Physiological and morphological adaptations in relation to water use efficiency in Mediterranean accessions of <i>Solanum lycopersicum</i>. Plant, Cell and Environment, 2011, 34, 245-260.	5.7	152
6	Tomato-based food products for prostate cancer prevention: what have we learned?. Cancer and Metastasis Reviews, 2010, 29, 553-568.	5.9	87
7	Single Nucleotide Polymorphism Discovery in Cultivated Tomato via Sequencing by Synthesis. Plant Genome, 2012, 5, .	2.8	81
8	Outcrossing in the homothallic oomycete, Pythium ultimum, detected with molecular markers. Current Genetics, 1993, 24, 100-106.	1.7	79
9	Tomato Analyzer-color Test: A New Tool for Efficient Digital Phenotyping. Journal of the American Society for Horticultural Science, 2008, 133, 579-586.	1.0	79
10	Avocado Consumption Enhances Human Postprandial Provitamin A Absorption and Conversion from a Novel Highâ€“Î²-Carotene Tomato Sauce and from Carrots. Journal of Nutrition, 2014, 144, 1158-1166.	2.9	76
11	Ty-6, a major begomovirus resistance gene on chromosome 10, is effective against Tomato yellow leaf curl virus and Tomato mottle virus. Theoretical and Applied Genetics, 2019, 132, 1543-1554.	3.6	72
12	Resistance in Lycopersicon esculentum Intraspecific Crosses to Race T1 Strains of Xanthomonas campestris pv. vesicatoria Causing Bacterial Spot of Tomato. Phytopathology, 2005, 95, 519-527.	2.2	71
13	Trait Diversity and Potential for Selection Indices Based on Variation Among Regionally Adapted Processing Tomato Germplasm. Journal of the American Society for Horticultural Science, 2012, 137, 427-437.	1.0	71
14	Mapping and linkage disequilibrium analysis with a genome-wide collection of SNPs that detect polymorphism in cultivated tomato. Journal of Experimental Botany, 2011, 62, 1831-1845.	4.8	68
15	Storage Stability of Lycopene in Tomato Juice Subjected to Combined Pressureâˆ'Heat Treatments. Journal of Agricultural and Food Chemistry, 2010, 58, 8305-8313.	5.2	67
16	Proteomic Analysis of Resistance Mediated by Rcm 2.0 and Rcm 5.1, Two Loci Controlling Resistance to Bacterial Canker of Tomato. Molecular Plant-Microbe Interactions, 2004, 17, 1019-1028.	2.6	59
17	Tomatoes protect against development of UV-induced keratinocyte carcinoma via metabolomic alterations. Scientific Reports, 2017, 7, 5106.	3.3	57
18	Marker-assisted Selection for Combining Resistance to Bacterial Spot and Bacterial Speck in Tomato. Journal of the American Society for Horticultural Science, 2005, 130, 716-721.	1.0	56

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19	Resistance to Bacterial Canker in Tomato (Lycopersicon hirsutum LA407) and its Progeny Derived from Crosses to L. esculentum. Plant Disease, 2001, 85, 1171-1176.	1.4	53
20	Oligonucleotide array discovery of polymorphisms in cultivated tomato (Solanum lycopersicum L.) reveals patterns of SNP variation associated with breeding. BMC Genomics, 2009, 10, 466.	2.8	49
21	Fine mapping and analysis of a candidate gene in tomato accession PI128216 conferring hypersensitive resistance to bacterial spot race T3. Theoretical and Applied Genetics, 2012, 124, 533-542.	3.6	43
22	Genetic Variation in Homothallicand Hyphal Swelling Isolates of<i>Pythium ultimum</i>var.<i>ultimum</i>and P.<i>utlimum</i>var.<i>sporangiferum</i>. Molecular Plant-Microbe Interactions, 1994, 7, 766.	2.6	43
23	Improved Tomato Fruit Color within an Inbred Backcross Line Derived from Lycopersicon esculentum and L. hirsutum Involves the Interaction of Loci. Journal of the American Society for Horticultural Science, 2004, 129, 250-257.	1.0	43
24	Genetic and Environmental Variation for Tomato Flesh Color in a Population of Modern Breeding Lines. Journal of the American Society for Horticultural Science, 2001, 126, 221-226.	1.0	42
25	Identification of QTL associated with resistance to bacterial spot race T4 in tomato. Theoretical and Applied Genetics, 2010, 121, 1275-1287.	3.6	39
26	Genetic analysis of resistance to six virus diseases in a multiple virus-resistant maize inbred line. Theoretical and Applied Genetics, 2014, 127, 867-880.	3.6	39
27	Characterization of Hypersensitive Resistance to Bacterial Spot Race T3 (<i>Xanthomonas) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.2	38
28	Thermal processing differentially affects lycopene and other carotenoids in cis-lycopene containing, tangerine tomatoes. Food Chemistry, 2016, 210, 466-472.	8.2	38
29	Proteomic analysis of pollination-induced corolla senescence in petunia. Journal of Experimental Botany, 2010, 61, 1089-1109.	4.8	36
30	Discovery of intron polymorphisms in cultivated tomato using both tomato and Arabidopsis genomic information. Theoretical and Applied Genetics, 2010, 121, 1199-1207.	3.6	31
31	Molecular Mapping of Hypersensitive Resistance from Tomato â€˜Hawaii 7981â€™ to<i>Xanthomonas perforans</i>Race T3. Phytopathology, 2011, 101, 1217-1223.	2.2	30
32	The postharvest tomato fruit quality of long shelf-life Mediterranean landraces is substantially influenced by irrigation regimes. Postharvest Biology and Technology, 2014, 93, 114-121.	6.0	29
33	Comparison of Marker-Based Genomic Estimated Breeding Values and Phenotypic Evaluation for Selection of Bacterial Spot Resistance in Tomato. Phytopathology, 2018, 108, 392-401.	2.2	29
34	Population Genetics of Pythium ultimum. Phytopathology, 1997, 87, 454-461.	2.2	27
35	External calibration models for the measurement of tomato carotenoids by infrared spectroscopy. Journal of Food Composition and Analysis, 2011, 24, 121-126.	3.9	27
36	Association Analysis for Bacterial Spot Resistance in a Directionally Selected Complex Breeding Population of Tomato. Phytopathology, 2015, 105, 1437-1445.	2.2	27

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37	Carotenoid Stability during Production and Storage of Tomato Juice Made from Tomatoes with Diverse Pigment Profiles Measured by Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2010, 58, 8692-8698.	5.2	26
38	A QTL controlling stem morphology and vascular development in <i>Lycopersicon esculentum</i> Ã— <i>Lycopersicon hirsutum</i> (Solanaceae) crosses is located on chromosome 2. American Journal of Botany, 2002, 89, 1859-1866.	1.7	21
39	Identification of Resistance to <i>Maize rayado fino virus</i> in Maize Inbred Lines. Plant Disease, 2013, 97, 1418-1423.	1.4	21
40	Analysis of Tomato Carotenoids: Comparing Extraction and Chromatographic Methods. Journal of AOAC INTERNATIONAL, 2019, 102, 1069-1079.	1.5	21
41	Novel Processing Technologies as Compared to Thermal Treatment on the Bioaccessibility and Caco-2 Cell Uptake of Carotenoids from Tomato and Kale-Based Juices. Journal of Agricultural and Food Chemistry, 2019, 67, 10185-10194.	5.2	19
42	Sex differences in skin carotenoid deposition and acute UVB-induced skin damage in SKH-1 hairless mice after consumption of<i>tangerine</i>tomatoes. Molecular Nutrition and Food Research, 2015, 59, 2491-2501.	3.3	16
43	Limited appearance of apocarotenoids is observed in plasma after consumption of tomato juices: a randomized human clinical trial. American Journal of Clinical Nutrition, 2018, 108, 784-792.	4.7	15
44	Evaluating Quantitative Trait Locus Resistance in Tomato to Multiple <i>Xanthomonas</i> spp.. Plant Disease, 2020, 104, 423-429.	1.4	12
45	Novel Trichoderma Isolates Alleviate Water Deficit Stress in Susceptible Tomato Genotypes. Frontiers in Plant Science, 2022, 13, 869090.	3.6	11
46	Ultrastructural Characterization of Yellow Shoulder Disorder in a Uniform Ripening Tomato Genotype. Hortscience: A Publication of the American Society for Hortcultural Science, 2000, 35, 1114-1117.	1.0	10
47	Quantitative trait loci for resistance to Maize rayado fino virus. Molecular Breeding, 2014, 34, 989-996.	2.1	9
48	Optimizing Sampling of Tomato Fruit for Carotenoid Content with Application To Assessing the Impact of Ripening Disorders. Journal of Agricultural and Food Chemistry, 2008, 56, 483-487.	5.2	8
49	Identification and assessment of alleles in the promoter of the <i>Cycâ€B</i> gene that modulate levels of Î²â€carotene in ripe tomato fruit. Plant Genome, 2021, 14, e20085.	2.8	6
50	Steroidal alkaloid biosynthesis is coordinately regulated and differs among tomatoes in the redâ€fruited clade. Plant Genome, 2022, 15, e20192.	2.8	6
51	The use of historical datasets to develop multi-trait selection models in processing tomato. Euphytica, 2017, 213, 1.	1.2	5
52	Bioluminescent Xanthomonas hortorum pv. gardneri as a Tool to Quantify Bacteria in Planta, Screen Germplasm, and Identify Infection Routes on Leaf Surfaces. Frontiers in Plant Science, 2021, 12, 667351.	3.6	4
53	Migration Drives the Replacement of Xanthomonas perforans Races in the Absence of Widely Deployed Resistance. Frontiers in Microbiology, 2022, 13, 826386.	3.5	4
54	Processing Tomato Germplasm with Improved Resistance to Bacterial Spot. Hortscience: A Publication of the American Society for Hortcultural Science, 2021, 56, 519-520.	1.0	3

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55	Fertility Influence of the U.S. Midwestern Soils on Yellow Shoulder Disorder in Processing Tomatoes. Hortscience: A Publication of the American Society for Hortcultural Science, 2007, 42, 1468-1472.	1.0	2