David Francis

List of Publications by Year
in descending order

75 papers	3,728 citations	117625 34 h-index	133252 59 g-index
78 all docs	78 docs citations	78 times ranked	3748 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	Distribution ofSUN, OVATE, LC, andFASin the Tomato Germplasm and the Relationship to Fruit Shape Diversity Â Â Â. Plant Physiology, 2011, 156, 275-285.	4.8	293
3	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
4	Genomic variation in tomato, from wild ancestors to contemporary breeding accessions. BMC Genomics, 2015, 16, 257.	2.8	190
5	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
6	Enhanced bioavailability of lycopene when consumed as cisâ€isomers from tangerine compared to red tomato juice, a randomized, crossâ€over clinical trial. Molecular Nutrition and Food Research, 2015, 59, 658-669.	3.3	163
7	Two Loci from Lycopersicon hirsutum LA407 Confer Resistance to Strains of Clavibacter michiganensis subsp. michiganensis. Phytopathology, 2002, 92, 504-510.	2.2	119
8	Thermal isomerisation susceptibility of carotenoids in different tomato varieties. Journal of the Science of Food and Agriculture, 2001, 81, 910-917.	3.5	113
9	Discovery of single nucleotide polymorphisms in Lycopersicon esculentum by computer aided analysis of expressed sequence tags. Molecular Breeding, 2004, 14, 21-34.	2.1	101
10	Tomato-based food products for prostate cancer prevention: what have we learned?. Cancer and Metastasis Reviews, 2010, 29, 553-568.	5.9	87
11	Carotenoid Absorption in Humans Consuming Tomato Sauces Obtained from Tangerine or High-Î²-Carotene Varieties of Tomatoes. Journal of Agricultural and Food Chemistry, 2007, 55, 1597-1603.	5.2	84
12	Single Nucleotide Polymorphism Discovery in Cultivated Tomato via Sequencing by Synthesis. Plant Genome, 2012, 5, .	2.8	81
13	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
14	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
15	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
16	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
17	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
18	Rapid and Simultaneous Determination of Lycopene and Î²-Carotene Contents in Tomato Juice by Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2009, 57, 1105-1112.	5.2	68

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19	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
20	Population structure and genetic differentiation associated with breeding history and selection in tomato (Solanum lycopersicum L.). Heredity, 2011, 106, 927-935.	2.6	68
21	Diversity in conserved genes in tomato. BMC Genomics, 2007, 8, 465.	2.8	65
22	Mapping, genetic effects, and epistatic interaction of two bacterial canker resistance QTLs from Lycopersicon hirsutum. Theoretical and Applied Genetics, 2004, 108, 1047-1055.	3.6	62
23	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
24	Tomatoes protect against development of UV-induced keratinocyte carcinoma via metabolomic alterations. Scientific Reports, 2017, 7, 5106.	3.3	57
25	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
26	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
27	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
28	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
29	Bioavailability of Phytochemical Constituents From a Novel Soy Fortified Lycopene Rich Tomato Juice Developed for Targeted Cancer Prevention Trials. Nutrition and Cancer, 2013, 65, 919-929.	2.0	43
30	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
31	Profiling of nutritionally important carotenoids from genetically-diverse tomatoes by infrared spectroscopy. Food Chemistry, 2010, 120, 282-289.	8.2	40
32	Identification of QTL associated with resistance to bacterial spot race T4 in tomato. Theoretical and Applied Genetics, 2010, 121, 1275-1287.	3.6	39
33	Characterization of Hypersensitive Resistance to Bacterial Spot Race T3 (<i>Xanthomonas) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.2	38
34	Thermal processing differentially affects lycopene and other carotenoids in cis-lycopene containing, tangerine tomatoes. Food Chemistry, 2016, 210, 466-472.	8.2	38
35	Challenges and opportunities for improving food quality and nutrition through plant biotechnology. Current Opinion in Biotechnology, 2017, 44, 124-129.	6.6	34
36	Characterization of a landrace collection for TomÃtiga de Ramellet (Solanum lycopersicum L.) from the Balearic Islands. Genetic Resources and Crop Evolution, 2014, 61, 1131-1146.	1.6	32

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37	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
38	Molecular Mapping of Hypersensitive Resistance from Tomato â€˜Hawaii 7981â€™ toXanthomonas perforansRace T3. Phytopathology, 2011, 101, 1217-1223.	2.2	30
39	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
40	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
41	Association Analysis for Bacterial Spot Resistance in a Directionally Selected Complex Breeding Population of Tomato. Phytopathology, 2015, 105, 1437-1445.	2.2	27
42	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
43	Direct Determination of Lycopene Content in Tomatoes (Lycopersicon esculentum) by Attenuated Total Reflectance Infrared Spectroscopy and Multivariate Analysis. Journal of AOAC INTERNATIONAL, 2006, 89, 1257-1262.	1.5	23
44	A Novel Tomato-Soy Juice Induces a Dose-Response Increase in Urinary and Plasma Phytochemical Biomarkers in Men with Prostate Cancer. Journal of Nutrition, 2019, 149, 26-35.	2.9	23
45	High-Throughput Phenotyping Approach for Screening Major Carotenoids of Tomato by Handheld Raman Spectroscopy Using Chemometric Methods. Sensors, 2020, 20, 3723.	3.8	23
46	A QTL controlling stem morphology and vascular development in Lycopersicon esculentum Ã— Lycopersicon hirsutum (Solanaceae) crosses is located on chromosome 2. American Journal of Botany, 2002, 89, 1859-1866.	1.7	21
47	Analysis of Tomato Carotenoids: Comparing Extraction and Chromatographic Methods. Journal of AOAC INTERNATIONAL, 2019, 102, 1069-1079.	1.5	21
48	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
49	Genetic Diversity Patterns among Phytophthora Resistant Soybean Plant Introductions Based on SSR Markers. Crop Science, 2002, 42, 338-343.	1.8	18
50	Resistance to Crown and Root Rot Caused by Phytophthora capsici in a Tomato Advanced Backcross of Solanum habrochaites and Solanum lycopersicum. Plant Disease, 2016, 100, 829-835.	1.4	18
51	Plasma Metabolomics Reveals Steroidal Alkaloids as Novel Biomarkers of Tomato Intake in Mice. Molecular Nutrition and Food Research, 2017, 61, 1700241.	3.3	17
52	Sex differences in skin carotenoid deposition and acute UVB-induced skin damage in SKH-1 hairless mice after consumption oftangerinetomatoes. Molecular Nutrition and Food Research, 2015, 59, 2491-2501.	3.3	16
53	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
54	Tomato. , 2007, , 1-125.		14

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55	Whole genome re-sequencing analysis of two tomato genotypes for polymorphism insight in cloned genes and a genetic map construction. Scientia Horticulturae, 2019, 247, 58-66.	3.6	14
56	Evaluating Quantitative Trait Locus Resistance in Tomato to Multiple Xanthomonas spp.. Plant Disease, 2020, 104, 423-429.	1.4	12
57	Novel Trichoderma Isolates Alleviate Water Deficit Stress in Susceptible Tomato Genotypes. Frontiers in Plant Science, 2022, 13, 869090.	3.6	11
58	Genetics and Breeding for Resistance to Bacterial Diseases in Tomato. , 2006, , 379-419.		9
59	Identification and assessment of alleles in the promoter of the Cycâ€B gene that modulate levels of Î²â€carotene in ripe tomato fruit. Plant Genome, 2021, 14, e20085.	2.8	6
60	Cryptic introgressions contribute to transgressive segregation for early blight resistance in tomato. Theoretical and Applied Genetics, 2021, 134, 2561-2575.	3.6	6
61	Steroidal alkaloid biosynthesis is coordinately regulated and differs among tomatoes in the redâ€fruited clade. Plant Genome, 2022, 15, e20192.	2.8	6
62	Genomics of Tropical Solanaceous Species: Established and Emerging Crops. , 2008, , 453-467.		5
63	The use of historical datasets to develop multi-trait selection models in processing tomato. Euphytica, 2017, 213, 1.	1.2	5
64	<scp>Solanum galapagense</scp>â€derived purple tomato fruit color is conferred by novel alleles of the anthocyanin fruit and atroviolacium loci. Plant Direct, 2022, 6, e394.	1.9	5
65	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
66	Migration Drives the Replacement of Xanthomonas perforans Races in the Absence of Widely Deployed Resistance. Frontiers in Microbiology, 2022, 13, 826386.	3.5	4
67	AlleleCoder: a PERL script for coding co-dominant polymorphism data for PCA. Plant Genetic Resources: Characterisation and Utilisation, 2011, 9, 528-530.	0.8	3
68	Propagation Fidelity and Kinship of Tomato Varieties â€˜UC 82â€™ and â€˜M82â€™ Revealed by Analysis of Sequence Variation. Agronomy, 2020, 10, 538.	3.0	3
69	Shifts in Xanthomonas spp. causing bacterial spot in processing tomato in the Midwest of the United States. Canadian Journal of Plant Pathology, 2022, 44, 652-667.	1.4	3
70	(216) Effect of Supplemental Potassium on Yield and Quality of Processing Tomato. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1073A-1073.	1.0	2
71	Increased carotenoid bioavailability from a unique, cislycopene containing tangerineâ€type tomato. FASEB Journal, 2013, 27, 38.1.	0.5	2
72	Feasibility of Predicting Ease of Peeling of Tomato Fruits by Using a Handheld Infrared Spectrometer. Journal of Food Processing and Preservation, 2014, 38, 1010-1017.	2.0	1

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73	(8) Supplemental Potassium Source and Processing Tomato Quality. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 1016A-1016.	1.0	0
74	Consumption of a tomato carotenoid containing diet reduces UVâ€induced inflammation and DNA damage in a Skhâ€1 hairless mouse model. FASEB Journal, 2011, 25, 975.19.	0.5	0
75	Provitamin A Absorption and Conversion from a Unique High Betaâ€Carotene Tomato is Higher when Consumed with Avocado. FASEB Journal, 2012, 26, 31.5.	0.5	0