Esther van der Knaap

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2603707/publications.pdf

Version: 2024-02-01

72	8,971	66343	91884
papers	citations	42 h-index	69 g-index

76	76	76	7225
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	fw2.2: A Quantitative Trait Locus Key to the Evolution of Tomato Fruit Size. Science, 2000, 289, 85-88.	12.6	1,290
2	Rewiring of the Fruit Metabolome in Tomato Breeding. Cell, 2018, 172, 249-261.e12.	28.9	606
3	A Retrotransposon-Mediated Gene Duplication Underlies Morphological Variation of Tomato Fruit. Science, 2008, 319, 1527-1530.	12.6	513
4	Major Impacts of Widespread Structural Variation on Gene Expression and Crop Improvement in Tomato. Cell, 2020, 182, 145-161.e23.	28.9	464
5	The tomato pan-genome uncovers new genes and a rare allele regulating fruit flavor. Nature Genetics, 2019, 51, 1044-1051.	21.4	441
6	A cascade of arabinosyltransferases controls shoot meristem size in tomato. Nature Genetics, 2015, 47, 784-792.	21.4	348
7	Genetic and molecular regulation of fruit and plant domestication traits in tomato and pepper. Journal of Experimental Botany, 2007, 58, 3841-3852.	4.8	329
8	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
9	Bypassing Negative Epistasis on Yield in Tomato Imposed by a Domestication Gene. Cell, 2017, 169, 1142-1155.e12.	28.9	286
10	A cytochrome P450 regulates a domestication trait in cultivated tomato. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17125-17130.	7.1	257
11	Down-regulation of AUXIN RESPONSE FACTORS 6 and 8 by microRNA 167 leads to floral development defects and female sterility in tomato. Journal of Experimental Botany, 2014, 65, 2507-2520.	4.8	223
12	Development of a Controlled Vocabulary and Software Application to Analyze Fruit Shape Variation in Tomato and Other Plant Species. Plant Physiology, 2006, 141, 15-25.	4.8	192
13	Genomic variation in tomato, from wild ancestors to contemporary breeding accessions. BMC Genomics, 2015, 16, 257.	2.8	190
14	The genetic basis of fruit morphology in horticultural crops: lessons from tomato and melon. Journal of Experimental Botany, 2013, 65, 4625-4637.	4.8	188
15	Genome-wide identification, phylogeny and expression analysis of SUN, OFP and YABBY gene family in tomato. Molecular Genetics and Genomics, 2013, 288, 111-129.	2.1	178
16	What lies beyond the eye: the molecular mechanisms regulating tomato fruit weight and shape. Frontiers in Plant Science, 2014, 5, 227.	3.6	167
17	Rapid and reliable identification of tomato fruit weight and locule number loci by QTL-seq. Theoretical and Applied Genetics, 2015, 128, 1329-1342.	3.6	153
18	A common genetic mechanism underlies morphological diversity in fruits and other plant organs. Nature Communications, 2018, 9, 4734.	12.8	146

#	Article	IF	Citations
19	Comprehensive Tissue-Specific Transcriptome Analysis Reveals Distinct Regulatory Programs during Early Tomato Fruit Development. Plant Physiology, 2015, 168, 1684-1701.	4.8	142
20	Fruit weight is controlled by Cell Size Regulator encoding a novel protein that is expressed in maturing tomato fruits. PLoS Genetics, 2017, 13, e1006930.	3.5	129
21	Genomic Evidence for Complex Domestication History of the Cultivated Tomato in Latin America. Molecular Biology and Evolution, 2020, 37, 1118-1132.	8.9	124
22	SUNRegulates Vegetative and Reproductive Organ Shape by Changing Cell Division Patterns Â Â Â. Plant Physiology, 2011, 157, 1175-1186.	4.8	121
23	Interspecific reproductive barriers in the tomato clade: opportunities to decipher mechanisms of reproductive isolation. Sexual Plant Reproduction, 2011, 24, 171-187.	2.2	112
24	Comparative analysis of rosaceous genomes and the reconstruction of a putative ancestral genome for the family. BMC Evolutionary Biology, 2011, 11, 9.	3.2	103
25	A comparative analysis into the genetic bases of morphology in tomato varieties exhibiting elongated fruit shape. Theoretical and Applied Genetics, 2008, 116, 647-656.	3.6	102
26	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
27	Tomato Analyzer: A Useful Software Application to Collect Accurate and Detailed Morphological and Colorimetric Data from Two-dimensional Objects. Journal of Visualized Experiments, 2010, , .	0.3	93
28	Identification and characterization of a novel locus controlling early fruit development in tomato. Theoretical and Applied Genetics, 2001, 103, 353-358.	3.6	91
29	Estimating the Genetic Architecture of Fruit Quality Traits in Melon Using a Genomic Library of Near Isogenic Lines. Journal of the American Society for Horticultural Science, 2007, 132, 80-89.	1.0	91
30	Tomato Fruit Shape Analysis Using Morphometric and Morphology Attributes Implemented in Tomato Analyzer Software Program. Journal of the American Society for Horticultural Science, 2009, 134, 77-87.	1.0	91
31	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
32	Construction of an intra-specific sweet cherry (Prunus avium L.) genetic linkage map and synteny analysis with the Prunus reference map. Tree Genetics and Genomes, 2008, 4, 897-910.	1.6	76
33	Integration of tomato reproductive developmental landmarks and expression profiles, and the effect of SUN on fruit shape. BMC Plant Biology, 2009, 9, 49.	3.6	76
34	Multiple features that distinguish unilateral incongruity and self-incompatibility in the tomato clade. Plant Journal, 2010, 64, 367-378.	5.7	69
35	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
36	Tomato locule number and fruit size controlled by natural alleles of lc and fas. Plant Direct, 2019, 3, e00142.	1.9	67

#	Article	IF	Citations
37	Tomato fruit weight 11.3 maps close to fasciated on the bottom of chromosome 11. Theoretical and Applied Genetics, 2011, 123, 465-474.	3.6	66
38	Genome organization of the tomato sun locus and characterization of the unusual retrotransposon Rider. Plant Journal, 2009, 60, 181-193.	5.7	64
39	Development and bin mapping of a Rosaceae Conserved Ortholog Set (COS) of markers. BMC Genomics, 2009, 10, 562.	2.8	61
40	Plant Organ Shapes Are Regulated by Protein Interactions and Associations With Microtubules. Frontiers in Plant Science, 2018, 9, 1766.	3.6	51
41	The control of tomato fruit elongation orchestrated by sun, ovate and fs8.1 in a wild relative of tomato. Plant Science, 2015, 238, 95-104.	3.6	49
42	Exploiting the diversity of tomato: the development of a phenotypically and genetically detailed germplasm collection. Horticulture Research, 2020, 7, 66.	6.3	49
43	Shaping a fruit: Developmental pathways that impact growth patterns. Seminars in Cell and Developmental Biology, 2018, 79, 27-36.	5.0	48
44	The shape of things to come: ovate family proteins regulate plant organ shape. Current Opinion in Plant Biology, 2020, 53, 98-105.	7.1	46
45	Pan-plastome approach empowers the assessment of genetic variation in cultivated Capsicum species. Horticulture Research, 2019, 6, 108.	6.3	45
46	Fine mapping of fw3.2 controlling fruit weight in tomato. Theoretical and Applied Genetics, 2012, 125, 273-284.	3.6	44
47	Interspecific reproductive barriers between sympatric populations of wild tomato species (Solanum section Lycopersicon). American Journal of Botany, 2016, 103, 1964-1978.	1.7	39
48	A Comprehensive Subtractive cDNA Cloning Approach to Identify Nematode-Induced Transcripts in Tomato. Phytopathology, 1994, 84, 299.	2.2	33
49	Candidate gene selection and detailed morphological evaluations offs8.1, a quantitative trait locus controlling tomato fruit shape. Journal of Experimental Botany, 2015, 66, 6471-6482.	4.8	32
50	Rosaceae conserved orthologous sequences marker polymorphism in sweet cherry germplasm and construction of a SNP-based map. Tree Genetics and Genomes, 2012, 8, 237-247.	1.6	28
51	A Comparison of sun, ovate, fs8.1 and Auxin Application on Tomato Fruit Shape and Gene Expression. Plant and Cell Physiology, 2019, 60, 1067-1081.	3.1	28
52	Modeling of tomato fruits into nine shape categories using elliptic fourier shape modeling and Bayesian classification of contour morphometric data. Euphytica, 2014, 200, 429-439.	1.2	27
53	Magnitude of Genotype Ã— Environment Interactions Affecting Tomato Fruit Quality. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 721-726.	1.0	26
54	Network Analyses Reveal Shifts in Transcript Profiles and Metabolites That Accompany the Expression of SUN and an Elongated Tomato Fruit. Plant Physiology, 2015, 168, 1164-1178.	4.8	24

#	Article	IF	Citations
55	Differential expression of SlKLUH controlling fruit and seed weight is associated with changes in lipid metabolism and photosynthesis-related genes. Journal of Experimental Botany, 2021, 72, 1225-1244.	4.8	22
56	Identification and characterization of GLOBE, a major gene controlling fruit shape and impacting fruit size and marketability in tomato. Horticulture Research, 2021, 8, 138.	6.3	22
57	Genomeâ€wide genotyping of a novel Mexican Chile Pepper collection illuminates the history of landrace differentiation after Capsicum annuum L. domestication. Evolutionary Applications, 2019, 12, 78-92.	3.1	21
58	Differentiation of bacterial-feeding nematodes in soil ecological studies by means of arbitrarily-primed PCR. Soil Biology and Biochemistry, 1993, 25, 1141-1151.	8.8	17
59	Natural Genetic Diversity in Tomato Flavor Genes. Frontiers in Plant Science, 2021, 12, 642828.	3.6	16
60	Tomato. , 2007, , 1-125.		14
61	Rosaceae conserved orthologous set (RosCOS) markers as a tool to assess genome synteny between Malus and Fragaria. Tree Genetics and Genomes, 2012, 8, 643-658.	1.6	13
62	Haplotype analyses reveal novel insights into tomato history and domestication driven by long-distance migrations and latitudinal adaptations. Horticulture Research, 2022, 9, .	6.3	13
63	Increasing Fruit Weight by Editing a Cis-Regulatory Element in Tomato KLUH Promoter Using CRISPR/Cas9. Frontiers in Plant Science, 2022, 13, 879642.	3.6	13
64	Discovery of a Major QTL Controlling Trichome IV Density in Tomato Using K-Seq Genotyping. Genes, 2021, 12, 243.	2.4	12
65	Unraveling the genetics of tomato fruit weight during crop domestication and diversification. Theoretical and Applied Genetics, 2021, 134, 3363-3378.	3.6	12
66	Identification of blossom-end rot loci using joint QTL-seq and linkage-based QTL mapping in tomato. Theoretical and Applied Genetics, 2021, 134, 2931-2945.	3.6	10
67	Blossom-end rot: a century-old problem in tomato (Solanum lycopersicum L.) and other vegetables. Molecular Horticulture, 2022, 2, .	5.8	7
68	The level of a mRNA with sequence similarity to the old yellow enzyme-NADPH dehydrogenase increases in Chenopodium rubrum cells in response to cytokinin. Journal of Plant Physiology, 1996, 149, 233-236.	3.5	6
69	Unintended Consequences of Plant Domestication. Plant and Cell Physiology, 2022, 63, 1573-1583.	3.1	4
70	Genetic Structure of Liriomyza trifolii (Diptera: Agromyzidae) Associated With Host Plants From Southeastern Mexico. Environmental Entomology, 2019, 48, 253-262.	1.4	2
71	Genome-wide identification, phylogeny and expression analysis of SUN, OFP and YABBY gene family in tomato. , 2013, 288, 111.		1
72	Diversity within Cultivated Tomato. , 2013, , 74-91.		1