

Esther van der Knaap

List of Publications by Year in descending order

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72
papers

8,971
citations

66343

42
h-index

91884

69
g-index

76
all docs

76
docs citations

76
times ranked

7225
citing authors

#	ARTICLE	IF	CITATIONS
1	Blossom-end rot: a century-old problem in tomato (<i>Solanum lycopersicum</i> L.) and other vegetables. <i>Molecular Horticulture</i> , 2022, 2, .	5.8	7
2	Haplotype analyses reveal novel insights into tomato history and domestication driven by long-distance migrations and latitudinal adaptations. <i>Horticulture Research</i> , 2022, 9, .	6.3	13
3	Increasing Fruit Weight by Editing a Cis-Regulatory Element in Tomato KLUH Promoter Using CRISPR/Cas9. <i>Frontiers in Plant Science</i> , 2022, 13, 879642.	3.6	13
4	Unintended Consequences of Plant Domestication. <i>Plant and Cell Physiology</i> , 2022, 63, 1573-1583.	3.1	4
5	Differential expression of <i>SIKLUH</i> controlling fruit and seed weight is associated with changes in lipid metabolism and photosynthesis-related genes. <i>Journal of Experimental Botany</i> , 2021, 72, 1225-1244.	4.8	22
6	Discovery of a Major QTL Controlling Trichome IV Density in Tomato Using K-Seq Genotyping. <i>Genes</i> , 2021, 12, 243.	2.4	12
7	Identification and characterization of GLOBE, a major gene controlling fruit shape and impacting fruit size and marketability in tomato. <i>Horticulture Research</i> , 2021, 8, 138.	6.3	22
8	Natural Genetic Diversity in Tomato Flavor Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 642828.	3.6	16
9	Identification of blossom-end rot loci using joint QTL-seq and linkage-based QTL mapping in tomato. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2931-2945.	3.6	10
10	Unraveling the genetics of tomato fruit weight during crop domestication and diversification. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3363-3378.	3.6	12
11	Genomic Evidence for Complex Domestication History of the Cultivated Tomato in Latin America. <i>Molecular Biology and Evolution</i> , 2020, 37, 1118-1132.	8.9	124
12	The shape of things to come: ovate family proteins regulate plant organ shape. <i>Current Opinion in Plant Biology</i> , 2020, 53, 98-105.	7.1	46
13	Major Impacts of Widespread Structural Variation on Gene Expression and Crop Improvement in Tomato. <i>Cell</i> , 2020, 182, 145-161.e23.	28.9	464
14	Exploiting the diversity of tomato: the development of a phenotypically and genetically detailed germplasm collection. <i>Horticulture Research</i> , 2020, 7, 66.	6.3	49
15	Genome-wide genotyping of a novel Mexican Chile Pepper collection illuminates the history of landrace differentiation after <i>Capsicum annum</i> L. domestication. <i>Evolutionary Applications</i> , 2019, 12, 78-92.	3.1	21
16	Tomato locule number and fruit size controlled by natural alleles of <i>lc</i> and <i>fas</i> . <i>Plant Direct</i> , 2019, 3, e00142.	1.9	67
17	Pan-plastome approach empowers the assessment of genetic variation in cultivated <i>Capsicum</i> species. <i>Horticulture Research</i> , 2019, 6, 108.	6.3	45
18	The tomato pan-genome uncovers new genes and a rare allele regulating fruit flavor. <i>Nature Genetics</i> , 2019, 51, 1044-1051.	21.4	441

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19	A Comparison of sun, ovate, fs8.1 and Auxin Application on Tomato Fruit Shape and Gene Expression. <i>Plant and Cell Physiology</i> , 2019, 60, 1067-1081.	3.1	28
20	Genetic Structure of <i>Liriomyza trifolii</i> (Diptera: Agromyzidae) Associated With Host Plants From Southeastern Mexico. <i>Environmental Entomology</i> , 2019, 48, 253-262.	1.4	2
21	Rewiring of the Fruit Metabolome in Tomato Breeding. <i>Cell</i> , 2018, 172, 249-261.e12.	28.9	606
22	Shaping a fruit: Developmental pathways that impact growth patterns. <i>Seminars in Cell and Developmental Biology</i> , 2018, 79, 27-36.	5.0	48
23	A common genetic mechanism underlies morphological diversity in fruits and other plant organs. <i>Nature Communications</i> , 2018, 9, 4734.	12.8	146
24	Plant Organ Shapes Are Regulated by Protein Interactions and Associations With Microtubules. <i>Frontiers in Plant Science</i> , 2018, 9, 1766.	3.6	51
25	Bypassing Negative Epistasis on Yield in Tomato Imposed by a Domestication Gene. <i>Cell</i> , 2017, 169, 1142-1155.e12.	28.9	286
26	Fruit weight is controlled by Cell Size Regulator encoding a novel protein that is expressed in maturing tomato fruits. <i>PLoS Genetics</i> , 2017, 13, e1006930.	3.5	129
27	Interspecific reproductive barriers between sympatric populations of wild tomato species (<i>Solanum</i> section <i>Lycopersicon</i>). <i>American Journal of Botany</i> , 2016, 103, 1964-1978.	1.7	39
28	Genomic variation in tomato, from wild ancestors to contemporary breeding accessions. <i>BMC Genomics</i> , 2015, 16, 257.	2.8	190
29	A cascade of arabinosyltransferases controls shoot meristem size in tomato. <i>Nature Genetics</i> , 2015, 47, 784-792.	21.4	348
30	The control of tomato fruit elongation orchestrated by sun, ovate and fs8.1 in a wild relative of tomato. <i>Plant Science</i> , 2015, 238, 95-104.	3.6	49
31	Rapid and reliable identification of tomato fruit weight and locule number loci by QTL-seq. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1329-1342.	3.6	153
32	Candidate gene selection and detailed morphological evaluations of <i>fs8.1</i> , a quantitative trait locus controlling tomato fruit shape. <i>Journal of Experimental Botany</i> , 2015, 66, 6471-6482.	4.8	32
33	Network Analyses Reveal Shifts in Transcript Profiles and Metabolites That Accompany the Expression of <i>SUN</i> and an Elongated Tomato Fruit. <i>Plant Physiology</i> , 2015, 168, 1164-1178.	4.8	24
34	Comprehensive Tissue-Specific Transcriptome Analysis Reveals Distinct Regulatory Programs during Early Tomato Fruit Development. <i>Plant Physiology</i> , 2015, 168, 1684-1701.	4.8	142
35	What lies beyond the eye: the molecular mechanisms regulating tomato fruit weight and shape. <i>Frontiers in Plant Science</i> , 2014, 5, 227.	3.6	167
36	Down-regulation of AUXIN RESPONSE FACTORS 6 and 8 by microRNA 167 leads to floral development defects and female sterility in tomato. <i>Journal of Experimental Botany</i> , 2014, 65, 2507-2520.	4.8	223

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37	Modeling of tomato fruits into nine shape categories using elliptic fourier shape modeling and Bayesian classification of contour morphometric data. <i>Euphytica</i> , 2014, 200, 429-439.	1.2	27
38	The genetic basis of fruit morphology in horticultural crops: lessons from tomato and melon. <i>Journal of Experimental Botany</i> , 2013, 65, 4625-4637.	4.8	188
39	Genome-wide identification, phylogeny and expression analysis of SUN, OFP and YABBY gene family in tomato. <i>Molecular Genetics and Genomics</i> , 2013, 288, 111-129.	2.1	178
40	A cytochrome P450 regulates a domestication trait in cultivated tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17125-17130.	7.1	257
41	Genome-wide identification, phylogeny and expression analysis of SUN, OFP and YABBY gene family in tomato. , 2013, 288, 111.		1
42	Diversity within Cultivated Tomato. , 2013, , 74-91.		1
43	Rosaceae conserved orthologous set (RosCOS) markers as a tool to assess genome synteny between <i>Malus</i> and <i>Fragaria</i> . <i>Tree Genetics and Genomes</i> , 2012, 8, 643-658.	1.6	13
44	Fine mapping of fw3.2 controlling fruit weight in tomato. <i>Theoretical and Applied Genetics</i> , 2012, 125, 273-284.	3.6	44
45	Rosaceae conserved orthologous sequences marker polymorphism in sweet cherry germplasm and construction of a SNP-based map. <i>Tree Genetics and Genomes</i> , 2012, 8, 237-247.	1.6	28
46	Magnitude of Genotype × Environment Interactions Affecting Tomato Fruit Quality. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2012, 47, 721-726.	1.0	26
47	Distribution of <i>SUN</i> , <i>OVATE</i> , <i>LC</i> , and <i>FAS</i> in the Tomato Germplasm and the Relationship to Fruit Shape Diversity. <i>Plant Physiology</i> , 2011, 156, 275-285.	4.8	293
48	Mapping and linkage disequilibrium analysis with a genome-wide collection of SNPs that detect polymorphism in cultivated tomato. <i>Journal of Experimental Botany</i> , 2011, 62, 1831-1845.	4.8	68
49	Interspecific reproductive barriers in the tomato clade: opportunities to decipher mechanisms of reproductive isolation. <i>Sexual Plant Reproduction</i> , 2011, 24, 171-187.	2.2	112
50	Tomato fruit weight 11.3 maps close to fasciated on the bottom of chromosome 11. <i>Theoretical and Applied Genetics</i> , 2011, 123, 465-474.	3.6	66
51	Comparative analysis of rosaceous genomes and the reconstruction of a putative ancestral genome for the family. <i>BMC Evolutionary Biology</i> , 2011, 11, 9.	3.2	103
52	<i>SUN</i> Regulates Vegetative and Reproductive Organ Shape by Changing Cell Division Patterns. <i>Plant Physiology</i> , 2011, 157, 1175-1186.	4.8	121
53	Tomato Analyzer: A Useful Software Application to Collect Accurate and Detailed Morphological and Colorimetric Data from Two-dimensional Objects. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	93
54	Multiple features that distinguish unilateral incongruity and self-incompatibility in the tomato clade. <i>Plant Journal</i> , 2010, 64, 367-378.	5.7	69

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55	Development and bin mapping of a Rosaceae Conserved Ortholog Set (COS) of markers. BMC Genomics, 2009, 10, 562.	2.8	61
56	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
57	Genome organization of the tomato <i>sun</i> locus and characterization of the unusual retrotransposon <i>Rider</i> . Plant Journal, 2009, 60, 181-193.	5.7	64
58	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
59	Construction of an intra-specific sweet cherry (<i>Prunus avium</i> L.) genetic linkage map and synteny analysis with the <i>Prunus</i> reference map. Tree Genetics and Genomes, 2008, 4, 897-910.	1.6	76
60	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
61	A Retrotransposon-Mediated Gene Duplication Underlies Morphological Variation of Tomato Fruit. Science, 2008, 319, 1527-1530.	12.6	513
62	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
63	Tomato. , 2007, , 1-125.		14
64	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
65	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
66	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
67	Discovery of single nucleotide polymorphisms in <i>Lycopersicon esculentum</i> by computer aided analysis of expressed sequence tags. Molecular Breeding, 2004, 14, 21-34.	2.1	101
68	Identification and characterization of a novel locus controlling early fruit development in tomato. Theoretical and Applied Genetics, 2001, 103, 353-358.	3.6	91
69	fw2.2: A Quantitative Trait Locus Key to the Evolution of Tomato Fruit Size. Science, 2000, 289, 85-88.	12.6	1,290
70	The level of a mRNA with sequence similarity to the old yellow enzyme-NADPH dehydrogenase increases in <i>Chenopodium rubrum</i> cells in response to cytokinin. Journal of Plant Physiology, 1996, 149, 233-236.	3.5	6
71	A Comprehensive Subtractive cDNA Cloning Approach to Identify Nematode-Induced Transcripts in Tomato. Phytopathology, 1994, 84, 299.	2.2	33
72	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