Roger T Chetelat

List of Publications by Year
in descending order

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48 papers	3,503 citations	186265 28 h-index	233421 45 g-index
48 all docs	48 docs citations	48 times ranked	3760 citing authors

#	Article	IF	Citations
1	Genomic analyses provide insights into the history of tomato breeding. Nature Genetics, 2014, 46, 1220-1226.	21.4	801
2	Uniform ripening Encodes a Golden 2-like Transcription Factor Regulating Tomato Fruit Chloroplast Development. Science, 2012, 336, 1711-1715.	12.6	384
3	De Novo Assembly of a New Solanum pennellii Accession Using Nanopore Sequencing. Plant Cell, 2017, 29, 2336-2348.	6.6	192
4	Sink Metabolism in Tomato Fruit. Plant Physiology, 1991, 95, 1026-1035.	4.8	185
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	QTL analysis of fruit antioxidants in tomato using Lycopersicon pennellii introgression lines. Theoretical and Applied Genetics, 2005, 111, 1396-1408.	3.6	140
7	A Genetic Map of Tomato Based on BC1 Lycopersicon esculentum Ã— Solanum lycopersicoides Reveals Overall Synteny but Suppressed Recombination Between These Homeologous Genomes. Genetics, 2000, 154, 857-867.	2.9	113
8	Interspecific reproductive barriers in the tomato clade: opportunities to decipher mechanisms of reproductive isolation. Sexual Plant Reproduction, 2011, 24, 171-187.	2.2	112
9	A library of Solanum lycopersicoides introgression lines in cultivated tomato. Genome, 2005, 48, 685-697.	2.0	100
10	A Pollen Factor Linking Inter- and Intraspecific Pollen Rejection in Tomato. Science, 2010, 330, 1827-1830.	12.6	96
11	Distribution, ecology and reproductive biology of wild tomatoes and related nightshades from the Atacama Desert region of northern Chile. Euphytica, 2009, 167, 77-93.	1.2	79
12	Molecular Cloning of Tomato Plasma Membrane H⁺-ATPase. Plant Physiology, 1990, 94, 1874-1881.	4.8	76
13	Homeologous Recombination in Solanum lycopersicoides Introgression Lines of Cultivated Tomato. Genetics, 2006, 174, 1775-1788.	2.9	71
14	Unilateral incompatibility gene ui1.1 encodes an S-locus F-box protein expressed in pollen of Solanum species. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4417-4422.	7.1	65
15	Testing the SI Ã— SC rule: Pollenâ€“pistil interactions in interspecific crosses between members of the tomato clade (Solanum section Lycopersicon, Solanaceae). American Journal of Botany, 2015, 102, 302-311.	1.7	65
16	Effects of suppressing the DNA mismatch repair system on homeologous recombination in tomato. Theoretical and Applied Genetics, 2011, 123, 1445-1458.	3.6	56
17	The Role of a Pollen-Expressed Cullin1 Protein in Gametophytic Self-Incompatibility in Solanum. Genetics, 2014, 196, 439-442.	2.9	53
18	Comparative linkage map of theSolanum lycopersicoidesandS. sitiensgenomes and their differentiation from tomato. Genome, 2002, 45, 1003-1012.	2.0	45

#	Article	IF	Citations
19	Homoeologous pairing and recombination in Solanum lycopersicoides monosomic addition and substitution lines of tomato. Theoretical and Applied Genetics, 2003, 106, 979-989.	3.6	40
20	Title is missing!. Euphytica, 1997, 95, 99-108.	1.2	39
21	Interspecific reproductive barriers between sympatric populations of wild tomato species (Solanum section Lycopersicon). American Journal of Botany, 2016, 103, 1964-1978.	1.7	39
22	Genome differentiation by GISH in interspecific and intergeneric hybrids of tomato and related nightshades. Chromosome Research, 2004, 12, 107-116.	2.2	38
23	Solanum sect. Lycopersicon. , 2011, , 129-215.		37
24	A farnesyl pyrophosphate synthase gene expressed in pollen functions in Sâ€<scp>RN</scp>aseâ€independent unilateral incompatibility. Plant Journal, 2018, 93, 417-430.	5.7	37
25	Inheritance and genetic mapping of fruit sucrose accumulation in Lycopersicon chmielewskii. Plant Journal, 1993, 4, 643-650.	5.7	34
26	Identification, transmission, and cytological behavior of Solanum lycopersicoides Dun. monosomic alien addition lines in tomato (Lycopersicon esculentum Mill.). Genome, 1998, 41, 40-50.	2.0	34
27	Presence of tailed, asymmetric forms of acetylcholinesterase in the central nervous system of vertebrates. FEBS Letters, 1980, 121, 169-174.	2.8	33
28	Genetic diversity and population structure in the tomato-like nightshades Solanum lycopersicoides and S. sitiens. Annals of Botany, 2010, 105, 535-554.	2.9	33
29	Genealogy and fine mapping of obscuravenosa, a gene affecting the distribution of chloroplasts in leaf veins, and evidence of selection during breeding of tomatoes (Lycopersicon) Tj ETQq1 1 0.784314 rgBT /Overlock		31
30	Isozyme analysis, chromosome pairing, and fertility of Lycopersicon esculentum Ã— Solanum lycopersicoides diploid backcross hybrids. Genome, 1989, 32, 783-790.	2.0	29
31	Transmission and recombination of homeologous Solanum sitiens chromosomes in tomato. Theoretical and Applied Genetics, 2003, 107, 1391-1401.	3.6	29
32	Fine Mapping of ui6.1, a Gametophytic Factor Controlling Pollen-Side Unilateral Incompatibility in Interspecific Solanum Hybrids. Genetics, 2010, 185, 1069-1080.	2.9	26
33	Mutations in two pollen selfâ€incompatibility factors in geographically marginal populations of Solanum habrochaites impact mating system transitions and reproductive isolation. American Journal of Botany, 2016, 103, 1847-1861.	1.7	26
34	Mapping of loci from Solanum lycopersicoides conferring resistance or susceptibility to Botrytis cinerea in tomato. Theoretical and Applied Genetics, 2009, 119, 305-314.	3.6	25
35	Resistance to Botrytis cinerea in Solanum lycopersicoides is Dominant in Hybrids with Tomato, and Involves induced Hyphal Death. European Journal of Plant Pathology, 2004, 110, 13-23.	1.7	21
36	GISH analysis of meiotic chromosome pairing inSolanum lycopersicoidesintrogression lines of cultivated tomato. Genome, 2007, 50, 825-833.	2.0	19

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37	Introgression lines of Solanum sitiens, a wild nightshade of the Atacama Desert, in the genome of cultivated tomato. Plant Journal, 2019, 100, 836-850.	5.7	19
38	Comparative genetic linkage map of Solanum sect. Juglandifolia: evidence of chromosomal rearrangements and overall synteny with the tomatoes and related nightshades. Theoretical and Applied Genetics, 2009, 118, 831-847.	3.6	16
39	Evolutionary history of two pollen selfâ€incompatibility factors reveals alternate routes to selfâ€compatibility within Solanum. American Journal of Botany, 2017, 104, 1904-1919.	1.7	16
40	Tomato. , 2007, , 1-125.		14
41	Use of introgression lines to determine the ecophysiological basis for changes in water use efficiency and yield in California processing tomatoes. Functional Plant Biology, 2014, 41, 119.	2.1	13
42	Overcoming sterility and unilateral incompatibility of Solanum lycopersicumÂÃ—ÂS. sitiens hybrids. Euphytica, 2016, 207, 319-330.	1.2	13
43	Identification, transmission, and cytological behavior of <i>Solanum lycopersicoides</i> Dun. monosomic alien addition lines in tomato (<i>Lycopersicon esculentum</i> Mill.). Genome, 1998, 41, 40-50.	2.0	13
44	Characterization and comparative sequence analysis of the DNA mismatch repair MSH2 and MSH7 genes from tomato. Genetica, 2009, 137, 341-354.	1.1	9
45	Contrasting response to salt stress of two salinity tolerant creeping bentgrass clones. Journal of Plant Nutrition, 1986, 9, 1185-1197.	1.9	7
46	Cytogenetics and Evolution. , 2006, , 77-112.		6
47	Indel Group in Genomes (IGG) Molecular Genetic Markers. Plant Physiology, 2016, 172, 38-61.	4.8	5
48	Ornithine decarboxylase Âgenes contribute to S-RNase-independent pollen rejection. Plant Physiology, 2021, 186, 452-468.	4.8	5