

Roger T Chetelat

List of Publications by Year in descending order

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48
papers

3,503
citations

201385

27
h-index

233125

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. <i>Nature Genetics</i> , 2014, 46, 1220-1226.	9.4	801
2	<i>Uniform ripening</i> Encodes a <i>Golden 2-like</i> Transcription Factor Regulating Tomato Fruit Chloroplast Development. <i>Science</i> , 2012, 336, 1711-1715.	6.0	384
3	De Novo Assembly of a New <i>Solanum pennellii</i> Accession Using Nanopore Sequencing. <i>Plant Cell</i> , 2017, 29, 2336-2348.	3.1	192
4	Sink Metabolism in Tomato Fruit. <i>Plant Physiology</i> , 1991, 95, 1026-1035.	2.3	185
5	High-Density SNP Genotyping of Tomato (<i>Solanum lycopersicum</i> L.) Reveals Patterns of Genetic Variation Due to Breeding. <i>PLoS ONE</i> , 2012, 7, e45520.	1.1	164
6	QTL analysis of fruit antioxidants in tomato using <i>Lycopersicon pennellii</i> introgression lines. <i>Theoretical and Applied Genetics</i> , 2005, 111, 1396-1408.	1.8	140
7	A Genetic Map of Tomato Based on BC1 <i>Lycopersicon esculentum</i> × <i>Solanum lycopersicoides</i> Reveals Overall Synteny but Suppressed Recombination Between These Homeologous Genomes. <i>Genetics</i> , 2000, 154, 857-867.	1.2	113
8	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
9	A library of <i>Solanum lycopersicoides</i> introgression lines in cultivated tomato. <i>Genome</i> , 2005, 48, 685-697.	0.9	100
10	A Pollen Factor Linking Inter- and Intraspecific Pollen Rejection in Tomato. <i>Science</i> , 2010, 330, 1827-1830.	6.0	96
11	Distribution, ecology and reproductive biology of wild tomatoes and related nightshades from the Atacama Desert region of northern Chile. <i>Euphytica</i> , 2009, 167, 77-93.	0.6	79
12	Molecular Cloning of Tomato Plasma Membrane H ⁺ -ATPase. <i>Plant Physiology</i> , 1990, 94, 1874-1881.	2.3	76
13	Homeologous Recombination in <i>Solanum lycopersicoides</i> Introgression Lines of Cultivated Tomato. <i>Genetics</i> , 2006, 174, 1775-1788.	1.2	71
14	Unilateral incompatibility gene <i>SlS-1</i> encodes an S-locus F-box protein expressed in pollen of <i>Solanum</i> species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4417-4422.	3.3	65
15	Testing the SI × SC rule: Pollen-pistil interactions in interspecific crosses between members of the tomato clade (<i>Solanum</i> section <i>Lycopersicon</i> , Solanaceae). <i>American Journal of Botany</i> , 2015, 102, 302-311.	0.8	65
16	Effects of suppressing the DNA mismatch repair system on homeologous recombination in tomato. <i>Theoretical and Applied Genetics</i> , 2011, 123, 1445-1458.	1.8	56
17	The Role of a Pollen-Expressed Cullin1 Protein in Gametophytic Self-Incompatibility in <i>Solanum</i> . <i>Genetics</i> , 2014, 196, 439-442.	1.2	53
18	Comparative linkage map of the <i>Solanum lycopersicoides</i> and <i>S. sitiens</i> genomes and their differentiation from tomato. <i>Genome</i> , 2002, 45, 1003-1012.	0.9	45

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19	Homeologous pairing and recombination in <i>Solanum lycopersicoides</i> monosomic addition and substitution lines of tomato. <i>Theoretical and Applied Genetics</i> , 2003, 106, 979-989.	1.8	40
20	Title is missing!. <i>Euphytica</i> , 1997, 95, 99-108.	0.6	39
21	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.	0.8	39
22	Genome differentiation by GISH in interspecific and intergeneric hybrids of tomato and related nightshades. <i>Chromosome Research</i> , 2004, 12, 107-116.	1.0	38
23	<i>Solanum</i> sect. <i>Lycopersicon</i> . , 2011, , 129-215.		37
24	A farnesyl pyrophosphate synthase gene expressed in pollen functions in independent unilateral incompatibility. <i>Plant Journal</i> , 2018, 93, 417-430.	2.8	37
25	Inheritance and genetic mapping of fruit sucrose accumulation in <i>Lycopersicon chmielewskii</i> . <i>Plant Journal</i> , 1993, 4, 643-650.	2.8	34
26	Identification, transmission, and cytological behavior of <i>Solanum lycopersicoides</i> Dun. monosomic alien addition lines in tomato (<i>Lycopersicon esculentum</i> Mill.). <i>Genome</i> , 1998, 41, 40-50.	0.9	34
27	Presence of tailed, asymmetric forms of acetylcholinesterase in the central nervous system of vertebrates. <i>FEBS Letters</i> , 1980, 121, 169-174.	1.3	33
28	Genetic diversity and population structure in the tomato-like nightshades <i>Solanum lycopersicoides</i> and <i>S. sitiens</i> . <i>Annals of Botany</i> , 2010, 105, 535-554.	1.4	33
29	Genealogy and fine mapping of <i>obscuravenosa</i> , a gene affecting the distribution of chloroplasts in leaf veins, and evidence of selection during breeding of tomatoes (<i>Lycopersicon</i>) Tj ETQq1 1 0.7848 14 rgbB1/Overl		31
30	Isozyme analysis, chromosome pairing, and fertility of <i>Lycopersicon esculentum</i> × <i>Solanum lycopersicoides</i> diploid backcross hybrids. <i>Genome</i> , 1989, 32, 783-790.	0.9	29
31	Transmission and recombination of homeologous <i>Solanum sitiens</i> chromosomes in tomato. <i>Theoretical and Applied Genetics</i> , 2003, 107, 1391-1401.	1.8	29
32	Fine Mapping of <i>ui6.1</i> , a Gametophytic Factor Controlling Pollen-Side Unilateral Incompatibility in Interspecific <i>Solanum</i> Hybrids. <i>Genetics</i> , 2010, 185, 1069-1080.	1.2	26
33	Mutations in two pollen self-incompatibility factors in geographically marginal populations of <i>Solanum habrochaites</i> impact mating system transitions and reproductive isolation. <i>American Journal of Botany</i> , 2016, 103, 1847-1861.	0.8	26
34	Mapping of loci from <i>Solanum lycopersicoides</i> conferring resistance or susceptibility to <i>Botrytis cinerea</i> in tomato. <i>Theoretical and Applied Genetics</i> , 2009, 119, 305-314.	1.8	25
35	Resistance to <i>Botrytis cinerea</i> in <i>Solanum lycopersicoides</i> is Dominant in Hybrids with Tomato, and Involves induced Hyphal Death. <i>European Journal of Plant Pathology</i> , 2004, 110, 13-23.	0.8	21
36	GISH analysis of meiotic chromosome pairing in <i>Solanum lycopersicoides</i> introgression lines of cultivated tomato. <i>Genome</i> , 2007, 50, 825-833.	0.9	19

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37	Introgression lines of <i>Solanum sitiens</i> , a wild nightshade of the Atacama Desert, in the genome of cultivated tomato. <i>Plant Journal</i> , 2019, 100, 836-850.	2.8	19
38	Comparative genetic linkage map of <i>Solanum</i> sect. <i>Juglandifolia</i> : evidence of chromosomal rearrangements and overall synteny with the tomatoes and related nightshades. <i>Theoretical and Applied Genetics</i> , 2009, 118, 831-847.	1.8	16
39	Evolutionary history of two pollen self-incompatibility factors reveals alternate routes to self-incompatibility within <i>Solanum</i> . <i>American Journal of Botany</i> , 2017, 104, 1904-1919.	0.8	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. <i>Functional Plant Biology</i> , 2014, 41, 119.	1.1	13
42	Overcoming sterility and unilateral incompatibility of <i>Solanum lycopersicum</i> – <i>S. sitiens</i> hybrids. <i>Euphytica</i> , 2016, 207, 319-330.	0.6	13
43	Identification, transmission, and cytological behavior of <i>Solanum lycopersicoides</i> Dun. monosomic alien addition lines in tomato (<i>Lycopersicon esculentum</i> Mill.). <i>Genome</i> , 1998, 41, 40-50.	0.9	13
44	Characterization and comparative sequence analysis of the DNA mismatch repair MSH2 and MSH7 genes from tomato. <i>Genetica</i> , 2009, 137, 341-354.	0.5	9
45	Contrasting response to salt stress of two salinity tolerant creeping bentgrass clones. <i>Journal of Plant Nutrition</i> , 1986, 9, 1185-1197.	0.9	7
46	Cytogenetics and Evolution. , 2006, , 77-112.		6
47	Indel Group in Genomes (IGG) Molecular Genetic Markers. <i>Plant Physiology</i> , 2016, 172, 38-61.	2.3	5
48	Ornithine decarboxylase genes contribute to S-RNase-independent pollen rejection. <i>Plant Physiology</i> , 2021, 186, 452-468.	2.3	5