

Richard G F Visser

List of Publications by Citations

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500
papers

21,926
citations

74
h-index

121
g-index

527
ext. papers

26,487
ext. citations

5.4
avg, IF

6.78
L-index

#	Paper	IF	Citations
500	Genome sequence and analysis of the tuber crop potato. <i>Nature</i> , 2011 , 475, 189-95	50.4	1438
499	Visualization of differential gene expression using a novel method of RNA fingerprinting based on AFLP: analysis of gene expression during potato tuber development. <i>Plant Journal</i> , 1996 , 9, 745-53	6.9	711
498	If homogalacturonan were a side chain of rhamnogalacturonan I. Implications for cell wall architecture. <i>Plant Physiology</i> , 2003 , 132, 1781-9	6.6	474
497	Societal Costs of Late Blight in Potato and Prospects of Durable Resistance Through Cisgenic Modification. <i>Potato Research</i> , 2008 , 51, 47-57	3.2	298
496	Effector genomics accelerates discovery and functional profiling of potato disease resistance and phytophthora infestans avirulence genes. <i>PLoS ONE</i> , 2008 , 3, e2875	3.7	287
495	Comparative genomics enabled the isolation of the R3a late blight resistance gene in potato. <i>Plant Journal</i> , 2005 , 42, 251-61	6.9	283
494	Applied Biotechnology to Combat Late Blight in Potato Caused by Phytophthora Infestans. <i>Potato Research</i> , 2009 , 52, 249-264	3.2	268
493	Anthocyanin Biosynthesis and Degradation Mechanisms in Vegetables: A Review. <i>Frontiers in Chemistry</i> , 2018 , 6, 52	5	232
492	Naturally occurring allele diversity allows potato cultivation in northern latitudes. <i>Nature</i> , 2013 , 495, 246-50	50.4	225
491	A next-generation sequencing method for genotyping-by-sequencing of highly heterozygous autotetraploid potato. <i>PLoS ONE</i> , 2013 , 8, e62355	3.7	220
490	Loss of susceptibility as a novel breeding strategy for durable and broad-spectrum resistance. <i>Molecular Breeding</i> , 2010 , 25, 1-12	3.4	214
489	Inhibition of the expression of the gene for granule-bound starch synthase in potato by antisense constructs. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 289-96		211
488	RECORD: a novel method for ordering loci on a genetic linkage map. <i>Theoretical and Applied Genetics</i> , 2005 , 112, 30-40	6	208
487	Enhancing crop resilience to combined abiotic and biotic stress through the dissection of physiological and molecular crosstalk. <i>Frontiers in Plant Science</i> , 2014 , 5, 207	6.2	202
486	Construction of a 10,000-marker ultradense genetic recombination map of potato: providing a framework for accelerated gene isolation and a genomewide physical map. <i>Genetics</i> , 2006 , 173, 1075-87 ⁴		200
485	The Tomato Yellow Leaf Curl Virus resistance genes Ty-1 and Ty-3 are allelic and code for DFDGD-class RNA-dependent RNA polymerases. <i>PLoS Genetics</i> , 2013 , 9, e1003399	6	187
484	Construction of reference chromosome-scale pseudomolecules for potato: integrating the potato genome with genetic and physical maps. <i>G3: Genes, Genomes, Genetics</i> , 2013 , 3, 2031-47	3.2	172

483	Transcript Imaging with cDNA-AFLP: A Step-by-Step Protocol. <i>Plant Molecular Biology Reporter</i> , 1998 , 16, 157-157	1.7	167
482	Progress in understanding the biosynthesis of amylose. <i>Trends in Plant Science</i> , 1998 , 3, 462-467	13.1	164
481	Isolation of an amylose-free starch mutant of the potato (<i>Solanum tuberosum</i> L.). <i>Theoretical and Applied Genetics</i> , 1987 , 75, 217-221	6	158
480	Functional stacking of three resistance genes against <i>Phytophthora infestans</i> in potato. <i>Transgenic Research</i> , 2012 , 21, 89-99	3.3	153
479	Exploiting knowledge of R/Avr genes to rapidly clone a new LZ-NBS-LRR family of late blight resistance genes from potato linkage group IV. <i>Molecular Plant-Microbe Interactions</i> , 2009 , 22, 630-41	3.6	150
478	EBP1 regulates organ size through cell growth and proliferation in plants. <i>EMBO Journal</i> , 2006 , 25, 4909-20	3.0	149
477	Towards F1 Hybrid Seed Potato Breeding. <i>Potato Research</i> , 2011 , 54, 301-312	3.2	148
476	Elicitin recognition confers enhanced resistance to <i>Phytophthora infestans</i> in potato. <i>Nature Plants</i> , 2015 , 1, 15034	11.5	144
475	The potential of C4 grasses for cellulosic biofuel production. <i>Frontiers in Plant Science</i> , 2013 , 4, 107	6.2	140
474	SMOOTH: a statistical method for successful removal of genotyping errors from high-density genetic linkage data. <i>Theoretical and Applied Genetics</i> , 2005 , 112, 187-94	6	135
473	Secondary somatic embryogenesis and applications in plant breeding. <i>Euphytica</i> , 1995 , 81, 93-107	2.1	135
472	Qualitative and quantitative late blight resistance in the potato cultivar Sarpo Mira is determined by the perception of five distinct RXLR effectors. <i>Molecular Plant-Microbe Interactions</i> , 2012 , 25, 910-9	3.6	125
471	Rin4 causes hybrid necrosis and race-specific resistance in an interspecific lettuce hybrid. <i>Plant Cell</i> , 2009 , 21, 3368-78	11.6	125
470	Durable Late Blight Resistance in Potato Through Dynamic Varieties Obtained by Cisgenesis: Scientific and Societal Advances in the DuRPh Project. <i>Potato Research</i> , 2016 , 59, 35-66	3.2	124
469	Mapping and cloning of late blight resistance genes from <i>Solanum venturii</i> using an interspecific candidate gene approach. <i>Molecular Plant-Microbe Interactions</i> , 2009 , 22, 601-15	3.6	124
468	Biochemical and molecular characterization of a novel starch synthase from potato tubers. <i>Plant Journal</i> , 1995 , 8, 283-94	6.9	123
467	The late blight resistance locus Rpi-bib3 from <i>Solanum bulbocastanum</i> belongs to a major late blight R gene cluster on chromosome 4 of potato. <i>Molecular Plant-Microbe Interactions</i> , 2005 , 18, 722-9	3.6	116
466	Development and analysis of a 20K SNP array for potato (<i>Solanum tuberosum</i>): an insight into the breeding history. <i>Theoretical and Applied Genetics</i> , 2015 , 128, 2387-401	6	112

465	Developmental changes of enzymes involved in conversion of sucrose to hexose-phosphate during early tuberisation of potato. <i>Planta</i> , 1997 , 202, 220-226	4.7	111
464	Genetic variation in pea seed globulin composition. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 425-33	5.7	109
463	Meiosis drives extraordinary genome plasticity in the haploid fungal plant pathogen <i>Mycosphaerella graminicola</i> . <i>PLoS ONE</i> , 2009 , 4, e5863	3.7	107
462	The R3 resistance to <i>Phytophthora infestans</i> in potato is conferred by two closely linked R genes with distinct specificities. <i>Molecular Plant-Microbe Interactions</i> , 2004 , 17, 428-35	3.6	107
461	Tomato yellow leaf curl virus resistance by Ty-1 involves increased cytosine methylation of viral genomes and is compromised by cucumber mosaic virus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12942-7	11.5	106
460	Sequence of the structural gene for granule-bound starch synthase of potato (<i>Solanum tuberosum</i> L.) and evidence for a single point deletion in the amf allele. <i>Molecular Genetics and Genomics</i> , 1991 , 228, 240-8		106
459	Breeding drought tolerant cowpea: constraints, accomplishments, and future prospects. <i>Euphytica</i> , 2009 , 167, 353-370	2.1	105
458	Genes driving potato tuber initiation and growth: identification based on transcriptional changes using the POCl array. <i>Functional and Integrative Genomics</i> , 2008 , 8, 329-40	3.8	102
457	Untargeted metabolic quantitative trait loci analyses reveal a relationship between primary metabolism and potato tuber quality. <i>Plant Physiology</i> , 2012 , 158, 1306-18	6.6	101
456	Expression of a chimaeric granule-bound starch synthase-GUS gene in transgenic potato plants. <i>Plant Molecular Biology</i> , 1991 , 17, 691-9	4.6	101
455	Cloning and expression analysis of a potato cDNA that encodes branching enzyme: evidence for co-expression of starch biosynthetic genes. <i>Molecular Genetics and Genomics</i> , 1991 , 230, 39-44		100
454	Genetic architecture of plant stress resistance: multi-trait genome-wide association mapping. <i>New Phytologist</i> , 2017 , 213, 1346-1362	9.8	99
453	<i>Phytophthora infestans</i> isolates lacking class I ipiO variants are virulent on Rpi-blb1 potato. <i>Molecular Plant-Microbe Interactions</i> , 2009 , 22, 1535-45	3.6	99
452	Development of late blight resistant potatoes by cisgene stacking. <i>BMC Biotechnology</i> , 2014 , 14, 50	3.5	98
451	Pea powdery mildew er1 resistance is associated to loss-of-function mutations at a MLO homologous locus. <i>Theoretical and Applied Genetics</i> , 2011 , 123, 1425-31	6	98
450	Plant behaviour under combined stress: tomato responses to combined salinity and pathogen stress. <i>Plant Journal</i> , 2018 , 93, 781-793	6.9	96
449	StGA2ox1 is induced prior to stolon swelling and controls GA levels during potato tuber development. <i>Plant Journal</i> , 2007 , 52, 362-73	6.9	95
448	The dosage effect of the wildtype GBSS allele is linear for GBSS activity but not for amylose content: absence of amylose has a distinct influence on the physico-chemical properties of starch. <i>Theoretical and Applied Genetics</i> , 1996 , 92, 121-7	6	95

447	Association mapping of salt tolerance in barley (<i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2013 , 126, 2335-51	6	91
446	Validation of the high-throughput marker technology DArT using the model plant <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 2005 , 274, 30-9	3.1	91
445	Tools for Genetic Studies in Experimental Populations of Polyploids. <i>Frontiers in Plant Science</i> , 2018 , 9, 513	6.2	88
444	Implementation of two high through-put techniques in a novel application: detecting point mutations in large EMS mutated plant populations. <i>Plant Methods</i> , 2009 , 5, 13	5.8	88
443	Cloning and characterization of r3b; members of the r3 superfamily of late blight resistance genes show sequence and functional divergence. <i>Molecular Plant-Microbe Interactions</i> , 2011 , 24, 1132-42	3.6	87
442	The effect of pyramiding <i>Phytophthora infestans</i> resistance genes R Pi-mcd1 and R Pi-ber in potato. <i>Theoretical and Applied Genetics</i> , 2010 , 121, 117-25	6	87
441	Evaluation of LD decay and various LD-decay estimators in simulated and SNP-array data of tetraploid potato. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 123-135	6	86
440	Transformation of homozygous diploid potato with an <i>Agrobacterium tumefaciens</i> binary vector system by adventitious shoot regeneration on leaf and stem segments. <i>Plant Molecular Biology</i> , 1989 , 12, 329-37	4.6	86
439	Identification of granule-bound starch synthase in potato tubers. <i>Plant Physiology</i> , 1986 , 82, 411-6	6.6	85
438	Population structure and linkage disequilibrium unravelled in tetraploid potato. <i>Theoretical and Applied Genetics</i> , 2010 , 121, 1151-70	6	84
437	A new and versatile method for the successful conversion of AFLP markers into simple single locus markers. <i>Nucleic Acids Research</i> , 2003 , 31, e55	20.1	84
436	In muro fragmentation of the rhamnogalacturonan I backbone in potato (<i>Solanum tuberosum</i> L.) results in a reduction and altered location of the galactan and arabinan side-chains and abnormal periderm development. <i>Plant Journal</i> , 2002 , 30, 403-13	6.9	83
435	The <i>Bemisia tabaci</i> species complex: additions from different parts of the world. <i>Insect Science</i> , 2013 , 20, 723-33	3.6	79
434	Isolation and characterization of a cDNA encoding granule-bound starch synthase in cassava (<i>Manihot esculenta</i> Crantz) and its antisense expression in potato. <i>Plant Molecular Biology</i> , 1993 , 23, 947-62	4.6	78
433	Loss of function in Mlo orthologs reduces susceptibility of pepper and tomato to powdery mildew disease caused by <i>Leveillula taurica</i> . <i>PLoS ONE</i> , 2013 , 8, e70723	3.7	78
432	The Role of Tomato Genes in Plant Responses to Combined Abiotic and Biotic Stresses. <i>Frontiers in Plant Science</i> , 2018 , 9, 801	6.2	77
431	Broad spectrum late blight resistance in potato differential set plants MaR8 and MaR9 is conferred by multiple stacked R genes. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 923-35	6	77
430	MADMAX - Management and analysis database for multiple ~omics experiments. <i>Journal of Integrative Bioinformatics</i> , 2011 , 8, 160	3.8	77

429	The Ph-3 gene from <i>Solanum pimpinellifolium</i> encodes CC-NBS-LRR protein conferring resistance to <i>Phytophthora infestans</i> . <i>Theoretical and Applied Genetics</i> , 2014 , 127, 1353-64	6	74
428	New broad-spectrum resistance to septoria tritici blotch derived from synthetic hexaploid wheat. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 125-42	6	74
427	Complexes with mixed primary and secondary cellulose synthases are functional in Arabidopsis plants. <i>Plant Physiology</i> , 2012 , 160, 726-37	6.6	74
426	The effects of auxin and strigolactones on tuber initiation and stolon architecture in potato. <i>Journal of Experimental Botany</i> , 2012 , 63, 4539-47	7	73
425	The R(Pi-mcd1) locus from <i>Solanum microdontum</i> involved in resistance to <i>Phytophthora infestans</i> , causing a delay in infection, maps on potato chromosome 4 in a cluster of NBS-LRR genes. <i>Molecular Plant-Microbe Interactions</i> , 2008 , 21, 909-18	3.6	72
424	Tuber on a chip: differential gene expression during potato tuber development. <i>Plant Biotechnology Journal</i> , 2005 , 3, 505-19	11.6	71
423	A non-directed approach to the differential analysis of multiple LCMS-derived metabolic profiles. <i>Metabolomics</i> , 2005 , 1, 169-180	4.7	71
422	Beyond genomic variation--comparison and functional annotation of three <i>Brassica rapa</i> genomes: a turnip, a rapid cycling and a Chinese cabbage. <i>BMC Genomics</i> , 2014 , 15, 250	4.5	70
421	Comparison Between Amylose-free and Amylose Containing Potato Starches. <i>Starch/Staerke</i> , 1997 , 49, 438-443	2.3	70
420	Cross-species bacterial artificial chromosome-fluorescence in situ hybridization painting of the tomato and potato chromosome 6 reveals undescribed chromosomal rearrangements. <i>Genetics</i> , 2008 , 180, 1319-28	4	68
419	Identification of alleles of carotenoid pathway genes important for zeaxanthin accumulation in potato tubers. <i>Plant Molecular Biology</i> , 2010 , 73, 659-71	4.6	66
418	Characterization of the MLO gene family in Rosaceae and gene expression analysis in <i>Malus domestica</i> . <i>BMC Genomics</i> , 2014 , 15, 618	4.5	65
417	Sequencing the Potato Genome: Outline and First Results to Come from the Elucidation of the Sequence of the World's Third Most Important Food Crop. <i>American Journal of Potato Research</i> , 2009 , 86, 417-429	2.1	65
416	An Online Potato Pedigree Database Resource. <i>Potato Research</i> , 2007 , 50, 45-57	3.2	65
415	Source-Sink Regulation Is Mediated by Interaction of an FT Homolog with a SWEET Protein in Potato. <i>Current Biology</i> , 2019 , 29, 1178-1186.e6	6.3	64
414	Towards modifying plants for altered starch content and composition. <i>Trends in Biotechnology</i> , 1993 , 11, 63-68	15.1	63
413	A transposable element insertion in the susceptibility gene CsaMLO8 results in hypocotyl resistance to powdery mildew in cucumber. <i>BMC Plant Biology</i> , 2015 , 15, 243	5.3	62
412	The Double-Reduction Landscape in Tetraploid Potato as Revealed by a High-Density Linkage Map. <i>Genetics</i> , 2015 , 201, 853-63	4	61

411	Impact of drought stress on growth and quality of miscanthus for biofuel production. <i>GCB Bioenergy</i> , 2017 , 9, 770-782	5.6	60
410	Resistance to Bemisia tabaci in tomato wild relatives. <i>Euphytica</i> , 2012 , 187, 31-45	2.1	60
409	Mapping of the S. demissum late blight resistance gene R8 to a new locus on chromosome IX. <i>Theoretical and Applied Genetics</i> , 2011 , 123, 1331-40	6	60
408	High-resolution Mapping and Analysis of the Resistance Locus Rpi-abpt Against Phytophthora infestans in Potato. <i>Molecular Breeding</i> , 2005 , 16, 33-43	3.4	60
407	Genetic analysis of metabolites in apple fruits indicates an mQTL hotspot for phenolic compounds on linkage group 16. <i>Journal of Experimental Botany</i> , 2012 , 63, 2895-908	7	59
406	Silencing of six susceptibility genes results in potato late blight resistance. <i>Transgenic Research</i> , 2016 , 25, 731-42	3.3	59
405	Chromosomal rearrangements between tomato and Solanum chilense hamper mapping and breeding of the TYLCV resistance gene Ty-1. <i>Plant Journal</i> , 2011 , 68, 1093-103	6.9	58
404	Fluorescence in situ hybridization on extended DNA fibres as a tool to analyse complex T-DNA loci in potato. <i>Plant Journal</i> , 1998 , 13, 837-847	6.9	58
403	Induced point mutations in the phytoene synthase 1 gene cause differences in carotenoid content during tomato fruit ripening. <i>Molecular Breeding</i> , 2012 , 29, 801-812	3.4	57
402	Interactions between membrane-bound cellulose synthases involved in the synthesis of the secondary cell wall. <i>FEBS Letters</i> , 2009 , 583, 978-82	3.8	57
401	Sucrose metabolism in plastids. <i>Plant Physiology</i> , 2001 , 125, 926-34	6.6	57
400	Introduction of sense and antisense cDNA for branching enzyme in the amylose-free potato mutant leads to physico-chemical changes in the starch. <i>Planta</i> , 1996 , 198, 340-347	4.7	57
399	Evaluation of Miscanthus sinensis biomass quality as feedstock for conversion into different bioenergy products. <i>GCB Bioenergy</i> , 2017 , 9, 176-190	5.6	56
398	Powdery mildew resistance in tomato by impairment of SlPMR4 and SlDMR1. <i>PLoS ONE</i> , 2013 , 8, e67467	3.7	56
397	Molecular breeding for resistance to Phytophthora infestans (Mont.) de Bary in potato (Solanum tuberosum L.): a perspective of cisgenesis. <i>Plant Breeding</i> , 2009 , 128, 109-117	2.4	56
396	Diversity, distribution, and evolution of Solanum bulbocastanum late blight resistance genes. <i>Molecular Plant-Microbe Interactions</i> , 2010 , 23, 1206-16	3.6	56
395	QTL methodology for response curves on the basis of non-linear mixed models, with an illustration to senescence in potato. <i>Theoretical and Applied Genetics</i> , 2006 , 113, 288-300	6	55
394	Bacterial Canker of Tomato: Current Knowledge of Detection, Management, Resistance, and Interactions. <i>Plant Disease</i> , 2015 , 99, 4-13	1.5	54

393	Generation and analysis of expressed sequence tags in the extreme large genomes <i>Lilium</i> and <i>Tulipa</i> . <i>BMC Genomics</i> , 2012 , 13, 640	4.5	54
392	Gene expression and carbohydrate content during stolon to tuber transition in potatoes (<i>Solanum tuberosum</i>). <i>Physiologia Plantarum</i> , 1994 , 90, 285-292	4.6	53
391	Genomic rearrangements and signatures of breeding in the allo-octoploid strawberry as revealed through an allele dose based SSR linkage map. <i>BMC Plant Biology</i> , 2014 , 14, 55	5.3	52
390	Genetic analysis of resistance to septoria tritici blotch in the French winter wheat cultivars Balance and Apache. <i>Theoretical and Applied Genetics</i> , 2011 , 123, 741-54	6	51
389	Responses to combined abiotic and biotic stress in tomato are governed by stress intensity and resistance mechanism. <i>Journal of Experimental Botany</i> , 2016 , 67, 5119-32	7	51
388	Partial preferential chromosome pairing is genotype dependent in tetraploid rose. <i>Plant Journal</i> , 2017 , 90, 330-343	6.9	50
387	The <i>Solanum demissum</i> R8 late blight resistance gene is an Sw-5 homologue that has been deployed worldwide in late blight resistant varieties. <i>Theoretical and Applied Genetics</i> , 2016 , 129, 1785-96	6	50
386	Transformation of the potato variety Desiree with single or multiple resistance genes increases resistance to late blight under field conditions. <i>Crop Protection</i> , 2015 , 77, 163-175	2.7	50
385	Genetic dissection of drought tolerance and recovery potential by quantitative trait locus mapping of a diploid potato population. <i>Molecular Breeding</i> , 2012 , 30, 1413-1429	3.4	50
384	From QTL to candidate gene: genetical genomics of simple and complex traits in potato using a pooling strategy. <i>BMC Genomics</i> , 2010 , 11, 158	4.5	50
383	CRISPR/Cas9-targeted mutagenesis of the tomato susceptibility gene PMR4 for resistance against powdery mildew. <i>BMC Plant Biology</i> , 2020 , 20, 284	5.3	49
382	Chromosome evolution in <i>Solanum</i> traced by cross-species BAC-FISH. <i>New Phytologist</i> , 2012 , 195, 688-698	3.8	49
381	A taste of sweet pepper: Volatile and non-volatile chemical composition of fresh sweet pepper (<i>Capsicum annuum</i>) in relation to sensory evaluation of taste. <i>Food Chemistry</i> , 2012 , 132, 301-10	8.5	49
380	Data integration and network reconstruction with ~omics data using Random Forest regression in potato. <i>Analytica Chimica Acta</i> , 2011 , 705, 56-63	6.6	49
379	Environmental biosafety and transgenic potato in a centre of diversity for this crop. <i>Nature</i> , 2004 , 432, 222-5	50.4	49
378	Transformation of a large number of potato varieties: genotype-dependent variation in efficiency and somaclonal variability. <i>Euphytica</i> , 2002 , 124, 13-22	2.1	49
377	Production of transgenic cassava (<i>Manihot esculenta</i> Crantz) plants by particle bombardment using luciferase activity as selection marker. <i>Molecular Breeding</i> , 1996 , 2, 339-349	3.4	49
376	Gene expression and carbohydrate content during stolon to tuber transition in potatoes (<i>Solanum tuberosum</i>). <i>Physiologia Plantarum</i> , 1994 , 90, 285-292	4.6	49

375	Outlook for coeliac disease patients: towards bread wheat with hypoimmunogenic gluten by gene editing of H and G gliadin gene families. <i>BMC Plant Biology</i> , 2019 , 19, 333	5.3	48
374	Genome composition of triploid lily cultivars derived from sexual polyploidization of Longiflorum × Asiatic hybrids (Lilium). <i>Euphytica</i> , 2008 , 160, 207-215	2.1	48
373	Intergenomic recombination in F1 lily hybrids (Lilium) and its significance for genetic variation in the BC1 progenies as revealed by GISH and FISH. <i>Genome</i> , 2005 , 48, 884-94	2.4	48
372	Improved Cassava Starch by Antisense Inhibition of Granule-bound Starch Synthase I. <i>Molecular Breeding</i> , 2005 , 16, 163-172	3.4	48
371	Fine mapping of the tomato yellow leaf curl virus resistance gene - on chromosome 11 of tomato. <i>Molecular Breeding</i> , 2014 , 34, 749-760	3.4	47
370	Some Physicochemical Properties of Amylose-free Potato Starch. <i>Starch/Staerke</i> , 1997 , 49, 443-448	2.3	47
369	Anthocyanin production as a potential visual selection marker during plant transformation. <i>Transgenic Research</i> , 2011 , 20, 1253-64	3.3	46
368	A pipeline for high throughput detection and mapping of SNPs from EST databases. <i>Molecular Breeding</i> , 2010 , 26, 65-75	3.4	46
367	Characterization and high-resolution mapping of a late blight resistance locus similar to R2 in potato. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 591-7	6	46
366	Integration of multi-omics data for prediction of phenotypic traits using random forest. <i>BMC Bioinformatics</i> , 2016 , 17 Suppl 5, 180	3.6	45
365	Unravelling enzymatic discoloration in potato through a combined approach of candidate genes, QTL, and expression analysis. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 245-52	6	45
364	Differences in regulation of carbohydrate metabolism during early fruit development between domesticated tomato and two wild relatives. <i>Planta</i> , 2007 , 226, 929-39	4.7	45
363	Combined biotic and abiotic stress resistance in tomato. <i>Euphytica</i> , 2015 , 202, 317-332	2.1	44
362	Identification of agronomically important QTL in tetraploid potato cultivars using a marker-trait association analysis. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 731-48	6	44
361	Mapping and characterization of novel parthenocarpy QTLs in tomato. <i>Theoretical and Applied Genetics</i> , 2008 , 116, 755-67	6	44
360	Genetic positioning of centromeres using half-tetrad analysis in a 4x-2x cross population of potato. <i>Genetics</i> , 2007 , 176, 85-94	4	44
359	Expression of Escherichia coli branching enzyme in tubers of amylose-free transgenic potato leads to an increased branching degree of the amylopectin. <i>Plant Journal</i> , 1996 , 10, 83-90	6.9	44
358	Field testing and exploitation of genetically modified cassava with low-amylose or amylose-free starch in Indonesia. <i>Transgenic Research</i> , 2012 , 21, 39-50	3.3	43

357	Tomato breeding in the genomics era: insights from a SNP array. <i>BMC Genomics</i> , 2013 , 14, 354	4.5	43
356	Identification and QTL mapping of whitefly resistance components in <i>Solanum galapagense</i> . <i>Theoretical and Applied Genetics</i> , 2013 , 126, 1487-501	6	43
355	In vitro screening and QTL analysis for drought tolerance in diploid potato. <i>Euphytica</i> , 2011 , 181, 357-369.	1	43
354	A novel approach to locate <i>Phytophthora infestans</i> resistance genes on the potato genetic map. <i>Theoretical and Applied Genetics</i> , 2010 , 120, 785-96	6	43
353	Agroinfection-based high-throughput screening reveals specific recognition of INF elicitors in <i>Solanum</i> . <i>Molecular Plant Pathology</i> , 2006 , 7, 499-510	5.7	43
352	Reduction of starch granule size by expression of an engineered tandem starch-binding domain in potato plants. <i>Plant Biotechnology Journal</i> , 2004 , 2, 251-60	11.6	43
351	Microbial starch-binding domains as a tool for targeting proteins to granules during starch biosynthesis. <i>Plant Molecular Biology</i> , 2003 , 51, 789-801	4.6	43
350	Genome-Wide Study of the Tomato SIMLO Gene Family and Its Functional Characterization in Response to the Powdery Mildew Fungus <i>Oidium neolycopersici</i> . <i>Frontiers in Plant Science</i> , 2016 , 7, 380	6.2	43
349	Enabling reusability of plant phenomic datasets with MIAPPE 1.1. <i>New Phytologist</i> , 2020 , 227, 260-273	9.8	42
348	Identification of quantitative trait loci for ion homeostasis and salt tolerance in barley (<i>Hordeum vulgare</i> L.). <i>Molecular Breeding</i> , 2013 , 31, 137-152	3.4	42
347	Genetic mapping in <i>Lilium</i> : mapping of major genes and quantitative trait loci for several ornamental traits and disease resistances. <i>Plant Breeding</i> , 2011 , 130, 372-382	2.4	42
346	A crosstalk of auxin and GA during tuber development. <i>Plant Signaling and Behavior</i> , 2012 , 7, 1360-3	2.5	42
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344	Efficient transformation of potato (<i>Solanum tuberosum</i> L.) using a binary vector in <i>Agrobacterium rhizogenes</i> . <i>Theoretical and Applied Genetics</i> , 1989 , 78, 594-600	6	42
343	Identification of candidate MLO powdery mildew susceptibility genes in cultivated Solanaceae and functional characterization of tobacco NtMLO1. <i>Transgenic Research</i> , 2015 , 24, 847-58	3.3	41
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334	An ultra-dense integrated linkage map for hexaploid chrysanthemum enables multi-allelic QTL analysis. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 2527-2541	6	39
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332	A novel method for the construction of genome wide transcriptome maps. <i>Plant Journal</i> , 2002 , 31, 211-229	22	39
331	Cloning, partial sequencing and expression of a cDNA coding for branching enzyme in cassava. <i>Plant Molecular Biology</i> , 1992 , 20, 809-19	4.6	39
330	Assignment of genetic linkage maps to diploid Solanum tuberosum pachytene chromosomes by BAC-FISH technology. <i>Chromosome Research</i> , 2009 , 17, 899-915	4.4	38
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328	Efficient development of highly polymorphic microsatellite markers based on polymorphic repeats in transcriptome sequences of multiple individuals. <i>Molecular Ecology Resources</i> , 2015 , 15, 17-27	8.4	37
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194	Azacytidine and miR156 promote rooting in adult but not in juvenile Arabidopsis tissues. <i>Journal of Plant Physiology</i> , 2017 , 208, 52-60	3.6	16
193	Genetic mapping and QTL analysis of Botrytis resistance in. <i>Molecular Breeding</i> , 2017 , 37, 13	3.4	16
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191	Engineering Potato Starch with a Higher Phosphate Content. <i>PLoS ONE</i> , 2017 , 12, e0169610	3.7	16
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