

Ivan Simko

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,046
citations

25
h-index

42
g-index

94
ext. papers

2,406
ext. citations

4.1
avg, IF

5.43
L-index

#	Paper	IF	Citations
87	Genome-wide association mapping reveals genomic regions frequently associated with lettuce field resistance to downy mildew.. <i>Theoretical and Applied Genetics</i> , 2022 , 1	6	0
86	Genetics of Partial Resistance Against Race 2 in Wild and Cultivated Lettuce. <i>Phytopathology</i> , 2021 , 111, 842-849	3.8	4
85	Dynamics of <i>Verticillium dahliae</i> race 1 population under managed agricultural ecosystems. <i>BMC Biology</i> , 2021 , 19, 131	7.3	
84	Genomics and Marker-Assisted Improvement of Vegetable Crops. <i>Critical Reviews in Plant Sciences</i> , 2021 , 40, 303-365	5.6	6
83	Identification of Major Quantitative Trait Loci Controlling Field Resistance to Downy Mildew in Cultivated Lettuce (). <i>Phytopathology</i> , 2021 , 111, 541-547	3.8	3
82	Genetics of robustness under nitrogen- and water-deficient conditions in field-grown lettuce. <i>Crop Science</i> , 2021 , 61, 1582-1619	2.4	2
81	Molecular Mapping of Water-Stress Responsive Genomic Loci in Lettuce (spp.) Using Kinetics Chlorophyll Fluorescence, Hyperspectral Imaging and Machine Learning. <i>Frontiers in Genetics</i> , 2021 , 12, 634554	4.5	1
80	Mapping and identification of genetic loci affecting earliness of bolting and flowering in lettuce. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 3319-3337	6	2
79	Hypersensitivity to triforine in lettuce is triggered by a TNL gene through the disease-resistance pathway. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2144-2146	11.6	1
78	Identification of marker compounds for predicting browning of fresh-cut lettuce using untargeted UHPLC-HRMS metabolomics. <i>Postharvest Biology and Technology</i> , 2021 , 180, 111626	6.2	2
77	Phenotypic characterization and inheritance of enzymatic browning on cut surfaces of stems and leaf ribs of romaine lettuce. <i>Postharvest Biology and Technology</i> , 2021 , 181, 111653	6.2	1
76	Seasonality, shelf life and storage atmosphere are main drivers of the microbiome and E. coli O157:H7 colonization of post-harvest lettuce cultivated in a major production area in California.. <i>Environmental Microbiomes</i> , 2021 , 16, 25	5.6	1
75	Genome-wide association mapping reveals loci for shelf life and developmental rate of lettuce. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 1947-1966	6	11
74	Identification of Factors Affecting the Deterioration Rate of Fresh-Cut Lettuce in Modified Atmosphere Packaging. <i>Food and Bioprocess Technology</i> , 2020 , 13, 1997-2011	5.1	4
73	Genome Sequence of Race 1 Isolate VdLs.16 From Lettuce. <i>Molecular Plant-Microbe Interactions</i> , 2020 , 33, 1265-1269	3.6	3
72	Predictive Modeling of a Leaf Conceptual Midpoint Quasi-Color (CMQ) Using an Artificial Neural Network. <i>Sensors</i> , 2020 , 20,	3.8	3
71	Genetic Variation in Response to N, P, or K Deprivation in Baby Leaf Lettuce. <i>Horticulturae</i> , 2020 , 6, 15	2.5	6

70	The genetics of resistance to lettuce drop (<i>Sclerotinia</i> spp.) in lettuce in a recombinant inbred line population from Reine des Glaces [Eruption. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 2439-2460	6	15
69	Genetic architecture of tipburn resistance in lettuce. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 2209-2222	16	
68	The LsVe1L allele provides a molecular marker for resistance to <i>Verticillium dahliae</i> race 1 in lettuce. <i>BMC Plant Biology</i> , 2019 , 19, 305	5.3	8
67	Identification of romaine lettuce (<i>Lactuca sativa</i> var. <i>longifolia</i>) Cultivars with reduced browning discoloration for fresh-cut processing. <i>Postharvest Biology and Technology</i> , 2019 , 156, 110931	6.2	16
66	Genetic variation and relationship among content of vitamins, pigments, and sugars in baby leaf lettuce. <i>Food Science and Nutrition</i> , 2019 , 7, 3317-3326	3.2	6
65	Genetic analysis of resistance to bacterial leaf spot in the heirloom lettuce cultivar Reine des Glaces. <i>Molecular Breeding</i> , 2019 , 39, 1	3.4	9
64	Phenomic and Physiological Analysis of Salinity Effects on Lettuce. <i>Sensors</i> , 2019 , 19,	3.8	22
63	Release of Three Iceberg Lettuce Populations with Combined Resistance to Two Soilborne Diseases. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018 , 53, 247-250	2.4	2
62	Molecular markers reliably predict post-harvest deterioration of fresh-cut lettuce in modified atmosphere packaging. <i>Horticulture Research</i> , 2018 , 5, 21	7.7	11
61	Variation within <i>Lactuca</i> spp. for Resistance to Impatiens necrotic spot virus. <i>Plant Disease</i> , 2018 , 102, 341-348	1.5	1
60	Accuracy, reliability, and timing of visual evaluations of decay in fresh-cut lettuce. <i>PLoS ONE</i> , 2018 , 13, e0194635	3.7	6
59	Shift in accumulation of flavonoids and phenolic acids in lettuce attributable to changes in ultraviolet radiation and temperature. <i>Scientia Horticulturae</i> , 2018 , 239, 193-204	4.1	46
58	Maturity-Adjusted Resistance of Potato (<i>Solanum tuberosum</i> L.) Cultivars to <i>Verticillium</i> Wilt Caused by <i>Verticillium dahliae</i> . <i>American Journal of Potato Research</i> , 2017 , 94, 173-177	2.1	3
57	Phenomic Approaches and Tools for Phytopathologists. <i>Phytopathology</i> , 2017 , 107, 6-17	3.8	59
56	Comparing the Predictive Abilities of Phenotypic and Marker-Assisted Selection Methods in a Biparental Lettuce Population. <i>Plant Genome</i> , 2016 , 9, plantgenome2015.03.0014	4.4	8
55	High-Resolution DNA Melting Analysis in Plant Research. <i>Trends in Plant Science</i> , 2016 , 21, 528-537	13.1	83
54	Non-destructive Phenotyping of Lettuce Plants in Early Stages of Development with Optical Sensors. <i>Frontiers in Plant Science</i> , 2016 , 7, 1985	6.2	25
53	Breeding lettuce for improved fresh-cut processing. <i>Acta Horticulturae</i> , 2016 , 65-76	0.3	8

52	Downy mildew disease promotes the colonization of romaine lettuce by Escherichia coli O157:H7 and Salmonella enterica. <i>BMC Microbiology</i> , 2015 , 15, 19	4.5	23
51	Detection of decay in fresh-cut lettuce using hyperspectral imaging and chlorophyll fluorescence imaging. <i>Postharvest Biology and Technology</i> , 2015 , 106, 44-52	6.2	40
50	Resistance to Downy Mildew in Lettuce 'La Brillante' is Conferred by Dm50 Gene and Multiple QTL. <i>Phytopathology</i> , 2015 , 105, 1220-8	3.8	17
49	Lettuce and Spinach. <i>CSSA Special Publication - Crop Science Society of America</i> , 2015 , 53-85		17
48	Analysis of bibliometric indicators to determine citation bias. <i>Palgrave Communications</i> , 2015 , 1,	5.3	3
47	Evaluation and QTL mapping of resistance to powdery mildew in lettuce. <i>Plant Pathology</i> , 2014 , 63, 344-353	3.3	14
46	Baby Leaf Lettuce Germplasm Enhancement: Developing Diverse Populations with Resistance to Bacterial Leaf Spot Caused by <i>Xanthomonas campestris</i> pv. <i>vitians</i> . <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014 , 49, 18-24	2.4	10
45	Characterization and Performance of 16 New Inbred Lines of Lettuce. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014 , 49, 679-687	2.4	12
44	Inheritance of Decay of Fresh-cut Lettuce in a Recombinant Inbred Line Population from Salinas 88 and La Brillante. <i>Journal of the American Society for Horticultural Science</i> , 2014 , 139, 388-398	2.3	20
43	Marker-Assisted Selection for Disease Resistance in Lettuce 2013 , 267-289		14
42	Genome-wide association of 10 horticultural traits with expressed sequence tag-derived SNP markers in a collection of lettuce lines. <i>Crop Journal</i> , 2013 , 1, 25-33	4.6	13
41	Development of genomic SSR markers for fingerprinting lettuce (<i>Lactuca sativa</i> L.) cultivars and mapping genes. <i>BMC Plant Biology</i> , 2013 , 13, 11	5.3	31
40	Identification of QTLs conferring resistance to downy mildew in legacy cultivars of lettuce. <i>Scientific Reports</i> , 2013 , 3, 2875	4.9	27
39	Empirical evaluation of DArT, SNP, and SSR marker-systems for genotyping, clustering, and assigning sugar beet hybrid varieties into populations. <i>Plant Science</i> , 2012 , 184, 54-62	5.3	44
38	The area under the disease progress stairs: calculation, advantage, and application. <i>Phytopathology</i> , 2012 , 102, 381-9	3.8	170
37	Computing Integrated Ratings from Heterogeneous Phenotypic Assessments: A Case Study of Lettuce Postharvest Quality and Downy Mildew Resistance. <i>Crop Science</i> , 2012 , 52, 2131-2142	2.4	21
36	Combining phenotypic data from ordinal rating scales in multiple plant experiments. <i>Trends in Plant Science</i> , 2011 , 16, 235-7	13.1	17
35	Evaluation of the RPi-ber late blight resistance gene for tuber resistance in the field and laboratory. <i>Plant Breeding</i> , 2011 , 130, 464-468	2.4	5

34	Mapping a dominant negative mutation for triforine sensitivity in lettuce and its use as a selectable marker for detecting hybrids. <i>Euphytica</i> , 2011 , 182, 157-166	2.1	12
33	Iceberg Lettuce Breeding Lines with Resistance to Verticillium Wilt Caused by Race 1 Isolates of <i>Verticillium dahliae</i> . <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011 , 46, 501-504	2.4	11
32	Foliar and tuber late blight resistance in a <i>Solanum tuberosum</i> breeding population. <i>Plant Breeding</i> , 2010 , 129, 197-201	2.4	15
31	Quantitative resistance to late blight from <i>Solanum berthaultii</i> cosegregates with R(Pi-ber): insights in stability through isolates and environment. <i>Theoretical and Applied Genetics</i> , 2010 , 121, 1553-67	6	25
30	DEVELOPMENT OF MOLECULAR MARKERS FOR MARKER-ASSISTED SELECTION OF DIEBACK DISEASE RESISTANCE IN LETTUCE (<i>LACTUCA SATIVA</i>). <i>Acta Horticulturae</i> , 2010 , 401-408	0.3	8
29	SM09A and SM09B: Romaine Lettuce Breeding Lines Resistant to Dieback and with Improved Shelf Life. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2010 , 45, 670-672	2.4	5
28	Development of EST-SSR markers for the study of population structure in lettuce (<i>Lactuca sativa</i> L.). <i>Journal of Heredity</i> , 2009 , 100, 256-62	2.4	80
27	Association mapping and marker-assisted selection of the lettuce dieback resistance gene Tvr1. <i>BMC Plant Biology</i> , 2009 , 9, 135	5.3	41
26	Mapping loci for chlorosis associated with chlorophyll b deficiency in potato. <i>Euphytica</i> , 2008 , 162, 99-107.	1	3
25	Population Structure in Cultivated Lettuce and Its Impact on Association Mapping. <i>Journal of the American Society for Horticultural Science</i> , 2008 , 133, 61-68	2.3	23
24	Genetics of Resistance to Pests and Disease 2007 , 117-155		39
23	Characterization and mapping of RPi-ber, a novel potato late blight resistance gene from <i>Solanum berthaultii</i> . <i>Theoretical and Applied Genetics</i> , 2006 , 112, 674-87	6	62
22	Assessment of linkage disequilibrium in potato genome with single nucleotide polymorphism markers. <i>Genetics</i> , 2006 , 173, 2237-45	4	97
21	Mapping polygenes for tuber resistance to late blight in a diploid <i>Solanum phureja</i> x <i>S. stenotomum</i> hybrid population. <i>Plant Breeding</i> , 2006 , 125, 385-389	2.4	33
20	QTL analysis of late blight resistance in a diploid potato family of <i>Solanum phureja</i> x <i>S. stenotomum</i> . <i>Theoretical and Applied Genetics</i> , 2005 , 111, 609-17	6	37
19	Mapping genes for resistance to <i>Verticillium albo-atrum</i> in tetraploid and diploid potato populations using haplotype association tests and genetic linkage analysis. <i>Molecular Genetics and Genomics</i> , 2004 , 271, 522-31	3.1	63
18	Polygene mapping as a tool to study the physiology of potato tuberization and dormancy. <i>American Journal of Potato Research</i> , 2004 , 81, 281-289	2.1	23
17	Linkage disequilibrium mapping of a <i>Verticillium dahliae</i> resistance quantitative trait locus in tetraploid potato (<i>Solanum tuberosum</i>) through a candidate gene approach. <i>Theoretical and Applied Genetics</i> , 2004 , 108, 217-24	6	129

16	Mining data from potato pedigrees: tracking the origin of susceptibility and resistance to <i>Verticillium dahliae</i> in North American cultivars through molecular marker analysis. <i>Theoretical and Applied Genetics</i> , 2004 , 108, 225-30	6	23
15	One potato, two potato: haplotype association mapping in autotetraploids. <i>Trends in Plant Science</i> , 2004 , 9, 441-8	13.1	46
14	IDENTIFICATION OF MOLECULAR MARKERS LINKED TO THE VERTICILLIUM WILT RESISTANCE GENE HOMOLOGUE IN POTATO (<i>SOLANUM TUBEROSUM</i> L.). <i>Acta Horticulturae</i> , 2003 , 127-133	0.3	7
13	Comparative analysis of quantitative trait loci for foliage resistance to <i>Phytophthora infestans</i> in tuber-bearing <i>Solanum</i> species. <i>American Journal of Potato Research</i> , 2002 , 79, 125-132	2.1	62
12	Genetic control of aggressiveness in <i>Phytophthora infestans</i> to tomato. <i>Canadian Journal of Plant Pathology</i> , 2002 , 24, 471-480	1.6	7
11	Genetic mapping from field tests of qualitative and quantitative resistance to <i>Phytophthora infestans</i> in a population derived from <i>Solanum tuberosum</i> and <i>Solanum berthaultii</i> . <i>Molecular Breeding</i> , 2000 , 6, 25-36	3.4	108
10	Quantitative trait loci for polyamine content in an RFLP-mapped potato population and their relationship to tuberization. <i>Physiologia Plantarum</i> , 1999 , 106, 210-218	4.6	7
9	Similarity of QTLs detected for in vitro and greenhouse development of potato plants. <i>Molecular Breeding</i> , 1999 , 5, 417-428	3.4	22
8	Evidence from Polygene Mapping for a Causal Relationship between Potato Tuber Dormancy and Abscisic Acid Content. <i>Plant Physiology</i> , 1997 , 115, 1453-1459	6.6	48
7	Tuberonic (12-OH-jasmonic) acid glucoside and its methyl ester in potato. <i>Phytochemistry</i> , 1996 , 43, 727-730	14	
6	Morphology and [¹⁴ C]Gibberellin A12 Metabolism in WildType and Dwarf <i>Solanum tuberosum</i> ssp. <i>Andigena</i> Grown under Long and Short Photoperiods. <i>Journal of Plant Physiology</i> , 1995 , 146, 467-473	3.6	46
5	Effect of paclobutrazol on in vitro formation of potato microtubers and their sprouting after storage. <i>Biologia Plantarum</i> , 1994 , 36, 15	2.1	9
4	Sucrose application causes hormonal changes associated with potato tuber induction. <i>Journal of Plant Growth Regulation</i> , 1994 , 13, 73-77	4.7	26
3	Effects of kinetin, paclobutrazol and their interactions on the microtuberization of potato stem segments cultured in vitro in the light. <i>Plant Growth Regulation</i> , 1993 , 12, 23-27	3.2	17
2	IdeTo: Spreadsheets for Calculation and Analysis of Area Under the Disease Progress Over Time Data. <i>PhytoFrontiers</i> , PHYTOFR-11-20-0		1
1	Lettuce (<i>Lactuca sativa</i> L.) germplasm resistant to bacterial leaf spot caused by race 1 of <i>Xanthomonas hortorum</i> pv. <i>vitians</i> (Brown 1918) MariniĒ et al. 20201		