

# Ivan Simko

## List of Publications by Citations

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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	The area under the disease progress stairs: calculation, advantage, and application. <i>Phytopathology</i> , <b>2012</b> , 102, 381-9	3.8	170
86	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> , <b>2004</b> , 108, 217-24	6	129
85	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> , <b>2000</b> , 6, 25-36	3.4	108
84	Assessment of linkage disequilibrium in potato genome with single nucleotide polymorphism markers. <i>Genetics</i> , <b>2006</b> , 173, 2237-45	4	97
83	High-Resolution DNA Melting Analysis in Plant Research. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 528-537	13.1	83
82	Development of EST-SSR markers for the study of population structure in lettuce ( <i>Lactuca sativa</i> L.). <i>Journal of Heredity</i> , <b>2009</b> , 100, 256-62	2.4	80
81	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> , <b>2004</b> , 271, 522-31	3.1	63
80	Characterization and mapping of RPi-ber, a novel potato late blight resistance gene from <i>Solanum berthaultii</i> . <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 112, 674-87	6	62
79	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> , <b>2002</b> , 79, 125-132	2.1	62
78	Phenomic Approaches and Tools for Phytopathologists. <i>Phytopathology</i> , <b>2017</b> , 107, 6-17	3.8	59
77	Evidence from Polygene Mapping for a Causal Relationship between Potato Tuber Dormancy and Abscisic Acid Content. <i>Plant Physiology</i> , <b>1997</b> , 115, 1453-1459	6.6	48
76	One potato, two potato: haplotype association mapping in autotetraploids. <i>Trends in Plant Science</i> , <b>2004</b> , 9, 441-8	13.1	46
75	Morphology and [ <sup>14</sup> 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> , <b>1995</b> , 146, 467-473	3.6	46
74	Shift in accumulation of flavonoids and phenolic acids in lettuce attributable to changes in ultraviolet radiation and temperature. <i>Scientia Horticulturae</i> , <b>2018</b> , 239, 193-204	4.1	46
73	Empirical evaluation of DArT, SNP, and SSR marker-systems for genotyping, clustering, and assigning sugar beet hybrid varieties into populations. <i>Plant Science</i> , <b>2012</b> , 184, 54-62	5.3	44
72	Association mapping and marker-assisted selection of the lettuce dieback resistance gene <i>Tvr1</i> . <i>BMC Plant Biology</i> , <b>2009</b> , 9, 135	5.3	41
71	Detection of decay in fresh-cut lettuce using hyperspectral imaging and chlorophyll fluorescence imaging. <i>Postharvest Biology and Technology</i> , <b>2015</b> , 106, 44-52	6.2	40

70	Genetics of Resistance to Pests and Disease <b>2007</b> , 117-155		39
69	QTL analysis of late blight resistance in a diploid potato family of Solanum phureja x S. stenotomum. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 111, 609-17	6	37
68	Mapping polygenes for tuber resistance to late blight in a diploid Solanum phureja x S. stenotomum hybrid population. <i>Plant Breeding</i> , <b>2006</b> , 125, 385-389	2.4	33
67	Development of genomic SSR markers for fingerprinting lettuce (Lactuca sativa L.) cultivars and mapping genes. <i>BMC Plant Biology</i> , <b>2013</b> , 13, 11	5.3	31
66	Identification of QTLs conferring resistance to downy mildew in legacy cultivars of lettuce. <i>Scientific Reports</i> , <b>2013</b> , 3, 2875	4.9	27
65	Sucrose application causes hormonal changes associated with potato tuber induction. <i>Journal of Plant Growth Regulation</i> , <b>1994</b> , 13, 73-77	4.7	26
64	Quantitative resistance to late blight from Solanum berthaultii cosegregates with R(Pi-ber): insights in stability through isolates and environment. <i>Theoretical and Applied Genetics</i> , <b>2010</b> , 121, 1553-67	6	25
63	Non-destructive Phenotyping of Lettuce Plants in Early Stages of Development with Optical Sensors. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1985	6.2	25
62	Downy mildew disease promotes the colonization of romaine lettuce by Escherichia coli O157:H7 and Salmonella enterica. <i>BMC Microbiology</i> , <b>2015</b> , 15, 19	4.5	23
61	Polygene mapping as a tool to study the physiology of potato tuberization and dormancy. <i>American Journal of Potato Research</i> , <b>2004</b> , 81, 281-289	2.1	23
60	Mining data from potato pedigrees: tracking the origin of susceptibility and resistance to Verticillium dahliae in North American cultivars through molecular marker analysis. <i>Theoretical and Applied Genetics</i> , <b>2004</b> , 108, 225-30	6	23
59	Population Structure in Cultivated Lettuce and Its Impact on Association Mapping. <i>Journal of the American Society for Horticultural Science</i> , <b>2008</b> , 133, 61-68	2.3	23
58	Similarity of QTLs detected for in vitro and greenhouse development of potato plants. <i>Molecular Breeding</i> , <b>1999</b> , 5, 417-428	3.4	22
57	Phenomic and Physiological Analysis of Salinity Effects on Lettuce. <i>Sensors</i> , <b>2019</b> , 19,	3.8	22
56	Computing Integrated Ratings from Heterogeneous Phenotypic Assessments: A Case Study of Lettuce Postharvest Quality and Downy Mildew Resistance. <i>Crop Science</i> , <b>2012</b> , 52, 2131-2142	2.4	21
55	Inheritance of Decay of Fresh-cut Lettuce in a Recombinant Inbred Line Population from Balinas 88 x La Brillante. <i>Journal of the American Society for Horticultural Science</i> , <b>2014</b> , 139, 388-398	2.3	20
54	Resistance to Downy Mildew in Lettuce 'La Brillante' is Conferred by Dm50 Gene and Multiple QTL. <i>Phytopathology</i> , <b>2015</b> , 105, 1220-8	3.8	17
53	Lettuce and Spinach. <i>CSSA Special Publication - Crop Science Society of America</i> , <b>2015</b> , 53-85		17

52	Combining phenotypic data from ordinal rating scales in multiple plant experiments. <i>Trends in Plant Science</i> , <b>2011</b> , 16, 235-7	13.1	17
51	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> , <b>1993</b> , 12, 23-27	3.2	17
50	Genetic architecture of tipburn resistance in lettuce. <i>Theoretical and Applied Genetics</i> , <b>2019</b> , 132, 2209-2222	23.2	16
49	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> , <b>2019</b> , 156, 110931	6.2	16
48	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> , <b>2019</b> , 132, 2439-2460	6	15
47	Foliar and tuber late blight resistance in a <i>Solanum tuberosum</i> breeding population. <i>Plant Breeding</i> , <b>2010</b> , 129, 197-201	2.4	15
46	Marker-Assisted Selection for Disease Resistance in Lettuce <b>2013</b> , 267-289		14
45	Evaluation and QTL mapping of resistance to powdery mildew in lettuce. <i>Plant Pathology</i> , <b>2014</b> , 63, 344-353	3.3	14
44	Tuberonic (12-OH-jasmonic) acid glucoside and its methyl ester in potato. <i>Phytochemistry</i> , <b>1996</b> , 43, 727-730	7.3	14
43	Genome-wide association of 10 horticultural traits with expressed sequence tag-derived SNP markers in a collection of lettuce lines. <i>Crop Journal</i> , <b>2013</b> , 1, 25-33	4.6	13
42	Mapping a dominant negative mutation for triforine sensitivity in lettuce and its use as a selectable marker for detecting hybrids. <i>Euphytica</i> , <b>2011</b> , 182, 157-166	2.1	12
41	Characterization and Performance of 16 New Inbred Lines of Lettuce. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , <b>2014</b> , 49, 679-687	2.4	12
40	Genome-wide association mapping reveals loci for shelf life and developmental rate of lettuce. <i>Theoretical and Applied Genetics</i> , <b>2020</b> , 133, 1947-1966	6	11
39	Molecular markers reliably predict post-harvest deterioration of fresh-cut lettuce in modified atmosphere packaging. <i>Horticulture Research</i> , <b>2018</b> , 5, 21	7.7	11
38	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> , <b>2011</b> , 46, 501-504	2.4	11
37	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> , <b>2014</b> , 49, 18-24	2.4	10
36	Effect of paclobutrazol on in vitro formation of potato microtubers and their sprouting after storage. <i>Biologia Plantarum</i> , <b>1994</b> , 36, 15	2.1	9
35	Genetic analysis of resistance to bacterial leaf spot in the heirloom lettuce cultivar Reine des Glaces. <i>Molecular Breeding</i> , <b>2019</b> , 39, 1	3.4	9

34	Comparing the Predictive Abilities of Phenotypic and Marker-Assisted Selection Methods in a Biparental Lettuce Population. <i>Plant Genome</i> , <b>2016</b> , 9, plantgenome2015.03.0014	4.4	8
33	The LsVe1L allele provides a molecular marker for resistance to <i>Verticillium dahliae</i> race 1 in lettuce. <i>BMC Plant Biology</i> , <b>2019</b> , 19, 305	5.3	8
32	DEVELOPMENT OF MOLECULAR MARKERS FOR MARKER-ASSISTED SELECTION OF DIEBACK DISEASE RESISTANCE IN LETTUCE ( <i>LACTUCA SATIVA</i> ). <i>Acta Horticulturae</i> , <b>2010</b> , 401-408	0.3	8
31	Breeding lettuce for improved fresh-cut processing. <i>Acta Horticulturae</i> , <b>2016</b> , 65-76	0.3	8
30	Genetic control of aggressiveness in <i>Phytophthora infestans</i> to tomato. <i>Canadian Journal of Plant Pathology</i> , <b>2002</b> , 24, 471-480	1.6	7
29	Quantitative trait loci for polyamine content in an RFLP-mapped potato population and their relationship to tuberization. <i>Physiologia Plantarum</i> , <b>1999</b> , 106, 210-218	4.6	7
28	IDENTIFICATION OF MOLECULAR MARKERS LINKED TO THE VERTICILLIUM WILT RESISTANCE GENE HOMOLOGUE IN POTATO ( <i>SOLANUM TUBEROSUM</i> L.). <i>Acta Horticulturae</i> , <b>2003</b> , 127-133	0.3	7
27	Genomics and Marker-Assisted Improvement of Vegetable Crops. <i>Critical Reviews in Plant Sciences</i> , <b>2021</b> , 40, 303-365	5.6	6
26	Genetic variation and relationship among content of vitamins, pigments, and sugars in baby leaf lettuce. <i>Food Science and Nutrition</i> , <b>2019</b> , 7, 3317-3326	3.2	6
25	Genetic Variation in Response to N, P, or K Deprivation in Baby Leaf Lettuce. <i>Horticulturae</i> , <b>2020</b> , 6, 15	2.5	6
24	Accuracy, reliability, and timing of visual evaluations of decay in fresh-cut lettuce. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194635	3.7	6
23	Evaluation of the RPi-ber late blight resistance gene for tuber resistance in the field and laboratory. <i>Plant Breeding</i> , <b>2011</b> , 130, 464-468	2.4	5
22	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> , <b>2010</b> , 45, 670-672	2.4	5
21	Identification of Factors Affecting the Deterioration Rate of Fresh-Cut Lettuce in Modified Atmosphere Packaging. <i>Food and Bioprocess Technology</i> , <b>2020</b> , 13, 1997-2011	5.1	4
20	Genetics of Partial Resistance Against Race 2 in Wild and Cultivated Lettuce. <i>Phytopathology</i> , <b>2021</b> , 111, 842-849	3.8	4
19	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> , <b>2017</b> , 94, 173-177	2.1	3
18	Mapping loci for chlorosis associated with chlorophyll b deficiency in potato. <i>Euphytica</i> , <b>2008</b> , 162, 99-107.	1	3
17	Analysis of bibliometric indicators to determine citation bias. <i>Palgrave Communications</i> , <b>2015</b> , 1,	5.3	3

16	Genome Sequence of Race 1 Isolate VdLs.16 From Lettuce. <i>Molecular Plant-Microbe Interactions</i> , <b>2020</b> , 33, 1265-1269	3.6	3
15	Predictive Modeling of a Leaf Conceptual Midpoint Quasi-Color (CMQ) Using an Artificial Neural Network. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
14	Identification of Major Quantitative Trait Loci Controlling Field Resistance to Downy Mildew in Cultivated Lettuce (). <i>Phytopathology</i> , <b>2021</b> , 111, 541-547	3.8	3
13	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> , <b>2018</b> , 53, 247-250	2.4	2
12	Genetics of robustness under nitrogen- and water-deficient conditions in field-grown lettuce. <i>Crop Science</i> , <b>2021</b> , 61, 1582-1619	2.4	2
11	Mapping and identification of genetic loci affecting earliness of bolting and flowering in lettuce. <i>Theoretical and Applied Genetics</i> , <b>2021</b> , 134, 3319-3337	6	2
10	Identification of marker compounds for predicting browning of fresh-cut lettuce using untargeted UHPLC-HRMS metabolomics. <i>Postharvest Biology and Technology</i> , <b>2021</b> , 180, 111626	6.2	2
9	IdeTo: Spreadsheets for Calculation and Analysis of Area Under the Disease Progress Over Time Data. <i>PhytoFrontiers</i> , PHYTOFR-11-20-0		1
8	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> , <b>2021</b> , 12, 634554	4.5	1
7	Variation within Lactuca spp. for Resistance to Impatiens necrotic spot virus. <i>Plant Disease</i> , <b>2018</b> , 102, 341-348	1.5	1
6	Hypersensitivity to triforine in lettuce is triggered by a TNL gene through the disease-resistance pathway. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 2144-2146	11.6	1
5	Phenotypic characterization and inheritance of enzymatic browning on cut surfaces of stems and leaf ribs of romaine lettuce. <i>Postharvest Biology and Technology</i> , <b>2021</b> , 181, 111653	6.2	1
4	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> , <b>2021</b> , 16, 25	5.6	1
3	Genome-wide association mapping reveals genomic regions frequently associated with lettuce field resistance to downy mildew.. <i>Theoretical and Applied Genetics</i> , <b>2022</b> , 1	6	0
2	Dynamics of Verticillium dahliae race 1 population under managed agricultural ecosystems. <i>BMC Biology</i> , <b>2021</b> , 19, 131	7.3	
1	Lettuce (Lactuca sativa L.) germplasm resistant to bacterial leaf spot caused by race 1 of Xanthomonas hortorum pv. vitians (Brown 1918) MariniE et al. 20201		