David M Spooner

List of Publications by Citations

122 papers	4,839 citations	37 h-index	66 g-index
123 ext. papers	5,437 ext. citations	2.8 avg, IF	5.62 L-index

#	Paper	IF	Citations
122	A high-quality carrot genome assembly provides new insights into carotenoid accumulation and asterid genome evolution. *Nature Genetics*, **2016**, 48, 657-66	36.3	280
121	A single domestication for potato based on multilocus amplified fragment length polymorphism genotyping. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14694-9	11.5	274
120	Applications of next-generation sequencing in plant biology. *American Journal of Botany*, **2012**, 99, 175-85	2.7	212
119	Extensive simple sequence repeat genotyping of potato landraces supports a major reevaluation of their gene pool structure and classification. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 19398-403	11.5	168
118	Geographic distribution of wild potato species. *American Journal of Botany*, **2001**, 88, 2101-2112	2.7	168
117	CHLOROPLAST DNA EVIDENCE FOR THE INTERRELATIONSHIPS OF TOMATOES, POTATOES, AND PEPINOS (SOLANACEAE). *American Journal of Botany*, **1993**, 80, 676-688	2.7	161
116	Systematics, Diversity, Genetics, and Evolution of Wild and Cultivated Potatoes. *Botanical Review, The*, **2014**, 80, 283-383	3.8	154
115	Granule-bound starch synthase (GBSSI) gene phylogeny of wild tomatoes (Solanum L. section Lycopersicon [Mill.] Wettst. subsection Lycopersicon). *American Journal of Botany*, **2001**, 88, 1888-1902	2.7	135
114	DNA barcoding will frequently fail in complicated groups: An example in wild potatoes. *American Journal of Botany*, **2009**, 96, 1177-89	2.7	131
113	Comparison of AFLPs with other markers for phylogenetic inference in wild tomatoes [Solanum L. section Lycopersicon (Mill.) Wettst.]. *Taxon*, **2005**, 54, 43-61	0.8	130
112	Genetic structure and domestication of carrot (Daucus carota subsp. sativus) (Apiaceae). *American Journal of Botany*, **2013**, 100, 930-8	2.7	123
111	Robust and highly informative microsatellite-based genetic identity kit for potato. *Molecular Breeding*, **2009**, 23, 377-388	3.4	111
110	Reclassification of landrace populations of cultivated potatoes (Solanum sect. Petota). *American Journal of Botany*, **2002**, 89, 947-65	2.7	108
109	Reinventing Potato as a Diploid Inbred Line Based Crop. *Crop Science*, **2016**, 56, 1412-1422	2.4	107
108	Geographical and environmental range expansion through polyploidy in wild potatoes (Solanum section Petota). *Global Ecology and Biogeography*, **2007**, 16, 485-495	6.1	102
107	DNA from herbarium specimens settles a controversy about origins of the European potato. *American Journal of Botany*, **2008**, 95, 252-7	2.7	98
106	Potato systematics and germplasm collecting, 1989–2000. *American Journal of Potato Research*, **2001**, 78, 237-268	2.1	96

105	CHLOROPLAST DNA EVIDENCE FOR THE INTERRELATIONSHIPS OF TOMATOES, POTATOES, AND PEPINOS (SOLANACEAE). *American Journal of Botany*, **1993**, 80, 676	2.7	87
104	Reexamination of series relationships of South American wild potatoes (Solanaceae: Solanum sect. Petota): evidence from chloroplast DNA restriction site variation. *American Journal of Botany*, **1997**, 84, 671-685	2.7	80
103	Wild Potatoes (Solanum section Petota; Solanaceae) of North and Central America. *Systematic Botany Monographs*, **2004**, 68, 1		78
102	Do potatoes and tomatoes have a single evolutionary history, and what proportion of the genome supports this history?. *BMC Evolutionary Biology*, **2009**, 9, 191	3	76
101	Taxonomy of cultivated potatoes (Solanum section Petota: Solanaceae). *Botanical Journal of the Linnean Society*, **2011**, 165, 107-155	2.2	67
100	Chilean Tetraploid Cultivated Potato, Solanum tuberosum, is Distinct from the Andean Populations. *Crop Science*, **2002**, 42, 1451-1458	2.4	62
99	Collapse of species boundaries in the wild potatoSolanum brevicaule complex (Solanaceae, S. sect.Petota): Molecular data. *Plant Systematics and Evolution*, **1999**, 214, 103-130	1.3	60
98	What Is the Origin of the European Potato? Evidence from Canary Island Landraces. *Crop Science*, **2007**, 47, 1271-1280	2.4	56
97	An analysis of recent taxonomic concepts in wild potatoes (Solarium sect. Petota). *Genetic Resources and Crop Evolution*, **1992**, 39, 23-37	2	56
96	Ex situ conservation priorities for the wild relatives of potato (solanum L. Section petota). *PLoS ONE*, **2015**, 10, e0122599	3.7	54
95	Collapse of morphological species in the wild potato Solanum brevicaule complex (Solanaceae: sect. Petota). *American Journal of Botany*, **1998**, 85, 92-109	2.7	53
94	Ecogeography of ploidy variation in cultivated potato (Solanum sect. Petota). *American Journal of Botany*, **2010**, 97, 2049-60	2.7	48
93	Reexamination of Series Relationships of Mexican and Central American Wild Potatoes (Solanum sect. Petota): Evidence from Chloroplast DNA Restriction Site Variation. *Systematic Botany*, **1992**, 17, 432	0.7	46
92	Genomic Analyses Yield Markers for Identifying Agronomically Important Genes in Potato. *Molecular Plant*, **2018**, 11, 473-484	14.4	43
91	Nitrate Reductase Phylogeny of Potato (Solanum sect. Petota) Genomes with Emphasis on the Origins of the Polyploid Species. *Systematic Botany*, **2009**, 34, 207-219	0.7	42
90	Allopolyploid speciation of the Mexican tetraploid potato species Solanum stoloniferum and S. hjertingii revealed by genomic in situ hybridization. *Genome*, **2008**, 51, 714-20	2.4	41
89	Hybrid origins of cultivated potatoes. *Theoretical and Applied Genetics*, **2010**, 121, 1187-98	6	40
88	Genetic diversity and origin of cultivated potatoes based on plastid microsatellite polymorphism. *Genetic Resources and Crop Evolution*, **2013**, 60, 1997-2015	2	39

87	Phylogenetic Relationships of Wild Potatoes, Solanum Series Conicibaccata (Sect. Petota). *Systematic Botany*, **1997**, 22, 45	0.7	38
86	Frost tolerance in wild potato species: Assessing the predictivity of taxonomic, geographic, and ecological factors. *Euphytica*, **2003**, 130, 47-59	2.1	38
85	A Test of Taxonomic Predictivity: Resistance to White Mold in Wild Relatives of Cultivated Potato. *Crop Science*, **2006**, 46, 2561-2570	2.4	35
84	Tests of Taxonomic and Biogeographic Predictivity: Resistance to Disease and Insect Pests in Wild Relatives of Cultivated Potato. *Crop Science*, **2009**, 49, 1367-1376	2.4	33
83	A MOLECULAR REEXAMINATION OF DIPLOID HYBRID SPECIATION OF SOLANUM RAPHANIFOLIUM. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 757-764	3.8	33
82	Phylogenomics of the carrot genus (Daucus, Apiaceae). *American Journal of Botany*, **2014**, 101, 1666-85	2.7	32
81	Genomic Origins of Potato Polyploids: GBSSI Gene Sequencing Data. *Crop Science*, **2008**, 48, S-27	2.4	32
80	Entire plastid phylogeny of the carrot genus (, Apiaceae): Concordance with nuclear data and mitochondrial and nuclear DNA insertions to the plastid. *American Journal of Botany*, **2017**, 104, 296-312	2.7	31
79	THE ADAPTIVE AND PHYLOGENETIC SIGNIFICANCE OF RECEPTACULAR BRACTS IN THE COMPOSITAE. *Taxon*, **1988**, 37, 114-126	0.8	30
78	Genotyping-by-sequencing provides the discriminating power to investigate the subspecies of Daucus carota (Apiaceae). *BMC Evolutionary Biology*, **2016**, 16, 234	3	30
77	Species limits and hypotheses of hybridization of Solanum berthaultii Hawkes and S. tarijense Hawkes: morphological data. *Taxon*, **1992**, 41, 685-700	0.8	29
76	Genomic in situ hybridization reveals both auto- and allopolyploid origins of different North and Central American hexaploid potato (Solanum sect. Petota) species. *Genome*, **2012**, 55, 407-15	2.4	28
75	A test of taxonomic and biogeographic predictivity: resistance to soft rot in wild relatives of cultivated potato. *Phytopathology*, **2011**, 101, 205-12	3.8	27
74	Single copy nuclear gene analysis of polyploidy in wild potatoes (Solanum section Petota). *BMC Evolutionary Biology*, **2012**, 12, 70	3	26
73	The single Andigenum origin of Neo-Tuberosum potato materials is not supported by microsatellite and plastid marker analyses. *Theoretical and Applied Genetics*, **2009**, 118, 963-9	6	25
72	Chloroplast DNA Analysis of Solanum bulbocastanum and S. cardiophyllum, and Evidence for the Distinctiveness of S. cardiophyllum Subsp. ehrenbergii (Sect. Petota). *Systematic Botany*, **1997**, 22, 31	0.7	25
71	A microsatellite and morphological assessment of the Russian National cultivated potato collection. *Genetic Resources and Crop Evolution*, **2010**, 57, 1151-1164	2	24
70	Species limits of Solanum berthaultii Hawkes and S. tarijense Hawkes and the implications for species boundaries in Solanum sect. Petota. *Taxon*, **2007**, 56, 987-999	0.8	24

69	Examination of Species Boundaries of Solanum series Demissa and Potentially Related Species in series Acaulia and series Tuberosa (sect. Petota). *Systematic Botany*, **1995**, 20, 295	0.7	24
68	A Reexamination of Species Boundaries and Hypotheses of Hybridization Concerning Solanum megistacrolobum and S. toralapanum (Solanum sect. Petota, series Megistacroloba): Molecular Data. *Systematic Botany*, **1994**, 19, 106	0.7	23
67	How do we address the disconnect between genetic and morphological diversity in germplasm collections?. *American Journal of Botany*, **2015**, 102, 1213-5	2.7	20
66	Bolivia potato germplasm collecting expeditions 1993, 1994: Taxonomy and new germplasm resources. *Euphytica*, **1994**, 79, 137-148	2.1	20
65	Molecular Phylogeny of Daucus (Apiaceae). *Systematic Botany*, **2013**, 38, 850-857	0.7	19
64	Phylogeny of Solanum series Piurana and related species in Solanum section Petota based on five conserved ortholog sequences. *Taxon*, **2010**, 59, 1091-1101	0.8	19
63	Wild potato collecting expedition in Southern Peru (Departments of Apurímac, Arequipa, Cusco, Moquegua Puno, Tacna in 1998: Taxonomy and new genetic resources. *American Journal of Potato Research*, **1999**, 76, 103-119	2.1	19
62	Analyses of 202 plastid genomes elucidate the phylogeny of Solanum section Petota. *Scientific Reports*, **2019**, 9, 4454	4.9	18
61	The Enigma of Solanum maglia in the Origin of the Chilean Cultivated Potato, Solanum tuberosum Chilotanum Group1. *Economic Botany*, **2012**, 66, 12-21	1.7	18
60	Morphometrics of Daucus (Apiaceae): a counterpart to a phylogenomic study. *American Journal of Botany*, **2014**, 101, 2005-16	2.7	17
59	Characterization of resistance to Globodera rostochiensis pathotype Ro1 in cultivated and wild potato species accessions from the Vavilov Institute of Plant Industry. *Plant Breeding*, **2014**, 133, 660-665	2.4	17
58	A Molecular Reexamination of Diploid Hybrid Speciation of Solanum raphanifolium. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 757	3.8	17
57	Reassessment of Practical Subspecies Identifications of the USDA Daucus carota L. Germplasm Collection: Morphological Data. *Crop Science*, **2014**, 54, 706-718	2.4	16
56	A Reexamination of Species Boundaries Between Solanum megistacrolobum and S. toralapanum (Solanum sect. Petota, series Megistacroloba): Morphological Data. *Systematic Botany*, **1994**, 19, 89	0.7	16
55	Potato germplasm collecting expedition to Chile, 1989, and utility of the Chilean species. *American Potato Journal*, **1991**, 68, 681-690		15
54	Introgression of Solanum chacoense (Solanum sect. Petota): Upland Populations Reexamined. *Systematic Botany*, **1996**, 21, 461	0.7	14
53	A reexamination of infraspecific taxa of a wild potato,Solanum microdontum (Solanum sect.Petota:Solanaceae). *Plant Systematics and Evolution*, **1992**, 182, 239-252	1.3	14
52	Wild potato (Solanum sect.Petota) germplasm collecting expedition to Argentina in 1990, and status of Argentinian potato germplasm resources. *Potato Research*, **1993**, 36, 3-12	3.2	14

51	CHLOROPLAST DNA EVIDENCE FOR GENOME DIFFERENTIATION IN WILD POTATOES (SOLANUM SECT. PETOTA: SOLANACEAE). *American Journal of Botany*, **1991**, 78, 1354-1366	2.7	14
50	Species delimitations in plants: lessons learned from potato taxonomy by a practicing taxonomist. *Journal of Systematics and Evolution*, **2016**, 54, 191-203	2.9	14
49	Asymmetric single-strand conformation polymorphism: an accurate and cost-effective method to amplify and sequence allelic variants. *American Journal of Botany*, **2011**, 98, 1061-7	2.7	13
48	Taxonomy and new collections of wild potato species in Central and Southern Peru in 1999. *American Journal of Potato Research*, **2001**, 78, 197-207	2.1	13
47	CHLOROPLAST DNA EVIDENCE FOR GENOME DIFFERENTIATION IN WILD POTATOES (SOLANUM SECT. PETOTA: SOLANACEAE) **1991**, 78, 1354		13
46	The United States Potato Introduction Station Herbarium. *Taxon*, **1994**, 43, 489-496	0.8	13
45	Fruit morphological descriptors as a tool for discrimination of Daucus L. germplasm. *Genetic Resources and Crop Evolution*, **2014**, 61, 499-510	2	12
44	A Morphometric Study of Species Boundaries of the Wild Potato Solanum Series Piurana (Solanaceae) and Putatively Related Species from Seven Other Series in Solanum Sect. Petota. *Systematic Botany*, **2008**, 33, 566-578	0.7	12
43	Plant genetic resources of Nepal: A guide for plant breeders of agricultural, horticultural and forestry crops. *Euphytica*, **1996**, 87, 189-210	2.1	12
42	ALLOZYME VARIATION WITHIN SOLANUM SECT. PETOTA, SER. ETUBEROSA (SOLANACEAE). *American Journal of Botany*, **1992**, 79, 467-471	2.7	12
41	The Evolution of Potato Breeding **2018**, 169-214		11
40	Levels of Intra-specific AFLP Diversity in Tuber-Bearing Potato Species with Different Breeding Systems and Ploidy Levels. *Frontiers in Genetics*, **2017**, 8, 119	4.5	11
39	Characterization of resistance to Synchytrium endobioticum in cultivated potato accessions from the collection of Vavilov Institute of Plant Industry. *Plant Breeding*, **2012**, 131, 744-750	2.4	11
38	Phylogenetic Relationships of Solanum Series Conicibaccata and Related Species in Solanum Section Petota Inferred from Five Conserved Ortholog Sequences. *Systematic Botany*, **2011**, 36, 163-170	0.7	11
37	Synonymy Within Wild Potatoes (Solanum sect. Petota: Solanaceae): The Case of Solanum andreanum. *Systematic Botany*, **1993**, 18, 209	0.7	11
36	Potato germplasm collecting expedition to the Guaitecas and chonos Archipelagos, Chile, 1990. *Potato Research*, **1993**, 36, 309-316	3.2	11
35	ALLOZYME VARIATION WITHIN SOLANUM SECT. PETOTA, SER. ETUBEROSA (SOLANACEAE) **1992**, 79, 467		11
34	Greatly reduced phylogenetic structure in the cultivated potato clade (Solanum section Petota pro parte). *American Journal of Botany*, **2018**, 105, 60-70	2.7	10

33	Wild and Cultivated Potato (Solanum sect. Petota) Escaped and Persistent Outside of its Natural Range. *Invasive Plant Science and Management*, **2010**, 3, 286-293	1	10
32	Solanum sect. petota in Guatemala; Taxonomy and genetic resources. *American Journal of Potato Research*, **1998**, 75, 3-17	2.1	10
31	Integrated Molecular and Morphological Studies of the Daucus guttatus Complex (Apiaceae). *Systematic Botany*, **2016**, 41, 479-492	0.7	10
30	Distributions and Conservation Status of Carrot Wild Relatives in Tunisia: A Case Study in the Western Mediterranean Basin. *Crop Science*, **2019**, 59, 2317-2328	2.4	10
29	Biogeographic Implications of the Striking Discovery of a 4,000 Kilometer Disjunct Population of the Wild Potato Solanum morelliforme in South America. *Systematic Botany*, **2011**, 36, 1062-1067	0.7	9
28	Species and series boundaries of Solanum series Longipedicellata (Solanaceae) and phenetically similar species in ser. Demissa and ser. Tuberosa: implications for a practical taxonomy of Section Petota. *American Journal of Botany*, **2001**, 88, 113-130	2.7	9
27	Genotyping-by-sequencing reveals the origin of the Tunisian relatives of cultivated carrot (Daucus carota). *Genetic Resources and Crop Evolution*, **2018**, 65, 1359-1368	2	8
26	13. Origins, Evolution, and Group Classifi cation of Cultivated Potatoes **2006**, 285-307		8
25	Potato germplasm collecting expedition to Mexico in 1997: Taxonomy and new germplasm resources. *American Journal of Potato Research*, **2000**, 77, 261-270	2.1	8
24	Relationships among wild relatives of the tomato, potato, and pepino. *Taxon*, **2016**, 65, 262-276	0.8	8
23	Lectotype Designation for Seven Species Names in the Daucus guttatus Complex (Apiaceae) from the Central and Eastern Mediterranean Basin. *Systematic Botany*, **2016**, 41, 464-478	0.7	8
22	Daucus: Taxonomy, Phylogeny, Distribution. *Compendium of Plant Genomes*, **2019**, 9-26	0.8	7
21	Colombia and Venezuela 1992 wild potato (Solanum sect. Petota) germplasm collecting expedition: taxonomy and new germplasm resources. *Euphytica*, **1995**, 81, 45-56	2.1	7
20	The potato: Evolution, biodiversity and genetic resources. J.G. Hawkes. *American Potato Journal*, **1990**, 67, 733-735		7
19	Genome diversity of the potato. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E6392-E6393	11.5	6
18	Linking the potato genome to the conserved ortholog set (COS) markers. *BMC Genetics*, **2013**, 14, 51	2.6	6
17	Revision of the Solanum medians Complex (Solanum section Petota). *Systematic Botany*, **2008**, 33, 579-588	0.7	6
16	A Morphometric Study of Species Boundaries of the Wild Potato Solanum Series Conicibaccata: a Replicated Field Trial in Andean Peru. *Systematic Botany*, **2008**, 33, 183-192	0.7	6

15	What is truth: Consensus and discordance in next-generation phylogenetic analyses of Daucus. *Journal of Systematics and Evolution*, **2020**, 58, 1059-1070	2.9	6
14	Multivariate analysis of morphological diversity among closely related Daucus species and subspecies in Tunisia. *Genetic Resources and Crop Evolution*, **2017**, 64, 2145-2159	2	5
13	REPRODUCTIVE FEATURES OF DENTARIA LACINIATA AND D. DIPHYLLA (CRUCIFERAE), AND THE IMPLICATIONS IN THE TAXONOMY OF THE EASTERN NORTH AMERICAN DENTARIA COMPLEX **1984**, 71, 999		4
12	Phylogenetic Prediction of Alternaria Leaf Blight Resistance in Wild and Cultivated Species of Carrots. *Crop Science*, **2017**, 57, 2645-2653	2.4	3
11	Solanum SectionPetota in Costa Rica: Taxonomy and genetic resources. *American Journal of Potato Research*, **2001**, 78, 91-98	2.1	3
10	Mitochondrial DNA Sequence Phylogeny of Daucus. *Systematic Botany*, **2020**, 45, 403-408	0.7	3
9	Subspecies boundaries of the wild potatoes Solanum bulbocastanum and S. cardiophyllum based on morphological and nuclear RFLP data. *Acta Botanica Mexicana*, **2002**, 9	1.2	3
8	Subspecies Variation of Daucus carota Coastal (Gummifer) Morphotypes (Apiaceae) Using Genotyping-by-Sequencing. *Systematic Botany*, **2020**, 45, 688-702	0.7	2
7	Solanum clarum and S. morelliforme as Novel Model Species for Studies of Epiphytism. *Frontiers in Plant Science*, **2016**, 7, 231	6.2	2
6	Extended studies of interspecific relationships in Daucus (Apiaceae) using DNA sequences from ten nuclear orthologues. *Botanical Journal of the Linnean Society*, **2019**, 191, 164-187	2.2	1
5	REPRODUCTIVE FEATURES OF DENTARIA LACINIATA AND D. DIPHYLLA (CRUCIFERAE), AND THE IMPLICATIONS IN THE TAXONOMY OF THE EASTERN NORTH AMERICAN DENTARIA COMPLEX. *American Journal of Botany*, **1984**, 71, 999-1005	2.7	1
4	Potato. *CSSA Special Publication - Crop Science Society of America*,195-217		1
3	Plant Nomenclature and Taxonomy **2010**, 1-60		0
2	Carrot Organelle Genomes: Organization, Diversity, and Inheritance. *Compendium of Plant Genomes* , **2019**, 205-223	0.8	
1	PTIS Potato Herbarium Transferred to WIS, the Wisconsin State Herbarium. *American Journal of Potato Research*, **2019**, 96, 625-628	2.1	