

David M Spooner

List of Publications by Year in descending order

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121
papers

6,393
citations

70961

41
h-index

71532

76
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123
all docs

123
docs citations

123
times ranked

3958
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-quality carrot genome assembly provides new insights into carotenoid accumulation and asterid genome evolution. <i>Nature Genetics</i> , 2016, 48, 657-666.	9.4	432
2	A single domestication for potato based on multilocus amplified fragment length polymorphism genotyping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14694-14699.	3.3	382
3	CHLOROPLAST DNA EVIDENCE FOR THE INTERRELATIONSHIPS OF TOMATOES, POTATOES, AND PEPINOS (SOLANACEAE). <i>American Journal of Botany</i> , 1993, 80, 676-688.	0.8	252
4	Applications of next-generation sequencing in plant biology. <i>American Journal of Botany</i> , 2012, 99, 175-185.	0.8	249
5	Geographic distribution of wild potato species. <i>American Journal of Botany</i> , 2001, 88, 2101-2112.	0.8	239
6	Systematics, Diversity, Genetics, and Evolution of Wild and Cultivated Potatoes. <i>Botanical Review</i> , The, 2014, 80, 283-383.	1.7	225
7	Extensive simple sequence repeat genotyping of potato landraces supports a major reevaluation of their gene pool structure and classification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19398-19403.	3.3	193
8	Reclassification of landrace populations of cultivated potatoes (<i>Solanum</i> sect. <i>Petota</i>). <i>American Journal of Botany</i> , 2002, 89, 947-965.	0.8	186
9	Reinventing Potato as a Diploid Inbred Line-Based Crop. <i>Crop Science</i> , 2016, 56, 1412-1422.	0.8	176
10	Granule-bound starch synthase (GBSSI) gene phylogeny of wild tomatoes (<i>Solanum</i> L. section) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382</i>	0.8	167
11	Genetic structure and domestication of carrot (<i>Daucus carota</i> subsp. <i>sativus</i>) (Apiaceae). <i>American Journal of Botany</i> , 2013, 100, 930-938.	0.8	167
12	Comparison of AFLPs with other markers for phylogenetic inference in wild tomatoes [<i>Solanum</i> L. section <i>Lycopersicon</i> (Mill.) Wettst.]. <i>Taxon</i> , 2005, 54, 43-61.	0.4	157
13	DNA barcoding will frequently fail in complicated groups: An example in wild potatoes. <i>American Journal of Botany</i> , 2009, 96, 1177-1189.	0.8	151
14	Robust and highly informative microsatellite-based genetic identity kit for potato. <i>Molecular Breeding</i> , 2009, 23, 377-388.	1.0	149
15	Geographical and environmental range expansion through polyploidy in wild potatoes (<i>Solanum</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1 124</i>	2.7	124
16	DNA from herbarium specimens settles a controversy about origins of the European potato. <i>American Journal of Botany</i> , 2008, 95, 252-257.	0.8	123
17	Potato systematics and germplasm collecting, 1989-2000. <i>American Journal of Potato Research</i> , 2001, 78, 237-268.	0.5	120
18	Wild Potatoes (<i>Solanum</i> section <i>Petota</i> ; Solanaceae) of North and Central America. <i>Systematic Botany Monographs</i> , 2004, 68, 1.	1.2	102

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19	Reexamination of series relationships of South American wild potatoes (Solanaceae: Solanum sect.) Tj ETQq1 1 0.784314 rgBT /Overlock 1 84, 671-685.	0.8	95
20	A MOLECULAR REEXAMINATION OF DIPLOID HYBRID SPECIATION OF <i>SOLANUM RAPHANIFOLIUM</i> . Evolution; International Journal of Organic Evolution, 1991, 45, 757-764.	1.1	90
21	Do potatoes and tomatoes have a single evolutionary history, and what proportion of the genome supports this history?. BMC Evolutionary Biology, 2009, 9, 191.	3.2	89
22	Chloroplast DNA Evidence for the Interrelationships of Tomatoes, Potatoes, and Pepinos (Solanaceae). American Journal of Botany, 1993, 80, 676.	0.8	88
23	Taxonomy of cultivated potatoes (Solanum section Petota: Solanaceae). Botanical Journal of the Linnean Society, 2011, 165, 107-155.	0.8	82
24	Ex Situ Conservation Priorities for the Wild Relatives of Potato (Solanum L. Section Petota). PLoS ONE, 2015, 10, e0122599.	1.1	74
25	Genomic Analyses Yield Markers for Identifying Agronomically Important Genes in Potato. Molecular Plant, 2018, 11, 473-484.	3.9	73
26	An analysis of recent taxonomic concepts in wild potatoes (Solanum sect. Petota). Genetic Resources and Crop Evolution, 1992, 39, 23-37.	0.8	71
27	Collapse of species boundaries in the wild potato <i>Solanum brevicaulum</i> complex (Solanaceae, S.) Tj ETQq1 1 0.784314 rgBT /Overlock 1 10, 1-10.	0.8	70
28	Chilean Tetraploid Cultivated Potato, <i>Solanum tuberosum</i> , is Distinct from the Andean Populations. Crop Science, 2002, 42, 1451-1458.	0.8	70
29	Reexamination of Series Relationships of Mexican and Central American Wild Potatoes (Solanum sect.) Tj ETQq1 1 0.784314 rgBT /Overlock 1 10, 1-10.	0.2	68
30	What Is the Origin of the European Potato? Evidence from Canary Island Landraces. Crop Science, 2007, 47, 1271-1280.	0.8	65
31	Collapse of morphological species in the wild potato <i>Solanum brevicaulum</i> complex (Solanaceae: sect.) Tj ETQq1 1 0.784314 rgBT /Overlock 1 10, 1-10.	0.8	61
32	Ecogeography of ploidy variation in cultivated potato (<i>Solanum</i> sect. <i>Petota</i>). American Journal of Botany, 2010, 97, 2049-2060.	0.8	57
33	Genetic diversity and origin of cultivated potatoes based on plastid microsatellite polymorphism. Genetic Resources and Crop Evolution, 2013, 60, 1997-2015.	0.8	55
34	Allopolyploid speciation of the Mexican tetraploid potato species <i>Solanum stoloniferum</i> and <i>S. hjertingii</i> revealed by genomic in situ hybridization. Genome, 2008, 51, 714-720.	0.9	50
35	Hybrid origins of cultivated potatoes. Theoretical and Applied Genetics, 2010, 121, 1187-1198.	1.8	50
36	Title is missing!. Euphytica, 2003, 130, 47-59.	0.6	46

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37	Nitrate Reductase Phylogeny of Potato (<i>Solanum</i> sect. <i>Petota</i>) Genomes with Emphasis on the Origins of the Polyploid Species. <i>Systematic Botany</i> , 2009, 34, 207-219.	0.2	46
38	Entire plastid phylogeny of the carrot genus (<i>Daucus</i> , Apiaceae): Concordance with nuclear data and mitochondrial and nuclear DNA insertions to the plastid. <i>American Journal of Botany</i> , 2017, 104, 296-312.	0.8	46
39	Phylogenetic Relationships of Wild Potatoes, <i>Solanum</i> Series Conicibaccata (Sect. <i>Petota</i>). <i>Systematic Botany</i> , 1997, 22, 45.	0.2	45
40	Genomic Origins of Potato Polyploids: GBSSI Gene Sequencing Data. <i>Crop Science</i> , 2008, 48, S-27.	0.8	44
41	Genotyping-by-sequencing provides the discriminating power to investigate the subspecies of <i>Daucus carota</i> (Apiaceae). <i>BMC Evolutionary Biology</i> , 2016, 16, 234.	3.2	44
42	Phylogenomics of the carrot genus (<i>Daucus</i> , Apiaceae). <i>American Journal of Botany</i> , 2014, 101, 1666-1685.	0.8	42
43	Examination of Species Boundaries of <i>Solanum</i> series <i>Demissa</i> and Potentially Related Species in series <i>Acaulia</i> and series <i>Tuberosa</i> (sect. <i>Petota</i>). <i>Systematic Botany</i> , 1995, 20, 295.	0.2	36
44	Tests of Taxonomic and Biogeographic Predictivity: Resistance to Disease and Insect Pests in Wild Relatives of Cultivated Potato. <i>Crop Science</i> , 2009, 49, 1367-1376.	0.8	36
45	A Reexamination of Species Boundaries and Hypotheses of Hybridization Concerning <i>Solanum megistacrolobum</i> and <i>S. toralapanum</i> (<i>Solanum</i> sect. <i>Petota</i> , series <i>Megistacroloba</i>): Molecular Data. <i>Systematic Botany</i> , 1994, 19, 106.	0.2	35
46	A Test of Taxonomic Predictivity: Resistance to White Mold in Wild Relatives of Cultivated Potato. <i>Crop Science</i> , 2006, 46, 2561-2570.	0.8	35
47	THE ADAPTIVE AND PHYLOGENETIC SIGNIFICANCE OF RECEPTACULAR BRACTS IN THE COMPOSITAE. <i>Taxon</i> , 1988, 37, 114-126.	0.4	34
48	Analyses of 202 plastid genomes elucidate the phylogeny of <i>Solanum</i> section <i>Petota</i> . <i>Scientific Reports</i> , 2019, 9, 4454.	1.6	34
49	Species limits and hypotheses of hybridization of <i>Solanum berthaultii</i> Hawkes and <i>S. tarijense</i> Hawkes: morphological data. <i>Taxon</i> , 1992, 41, 685-700.	0.4	33
50	The single Andigenum origin of Neo-Tuberosum potato materials is not supported by microsatellite and plastid marker analyses. <i>Theoretical and Applied Genetics</i> , 2009, 118, 963-969.	1.8	32
51	A Test of Taxonomic and Biogeographic Predictivity: Resistance to Soft Rot in Wild Relatives of Cultivated Potato. <i>Phytopathology</i> , 2011, 101, 205-212.	1.1	32
52	Genomic in situ hybridization reveals both auto- and allopolyploid origins of different North and Central American hexaploid potato (<i>Solanum</i> sect. <i>Petota</i>) species. <i>Genome</i> , 2012, 55, 407-415.	0.9	32
53	Species limits of <i>Solanum berthaultii</i> Hawkes and <i>S. tarijense</i> Hawkes and the implications for species boundaries in <i>Solanum</i> sect. <i>Petota</i> . <i>Taxon</i> , 2007, 56, 987-999.	0.4	31
54	Chloroplast DNA Analysis of <i>Solanum bulbocastanum</i> and <i>S. cardiophyllum</i> , and Evidence for the Distinctiveness of <i>S. cardiophyllum</i> Subsp. <i>ehrenbergii</i> (Sect. <i>Petota</i>). <i>Systematic Botany</i> , 1997, 22, 31.	0.2	30

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55	Single copy nuclear gene analysis of polyploidy in wild potatoes (<i>Solanum</i> section <i>Petota</i>). <i>BMC Evolutionary Biology</i> , 2012, 12, 70.	3.2	28
56	A microsatellite and morphological assessment of the Russian National cultivated potato collection. <i>Genetic Resources and Crop Evolution</i> , 2010, 57, 1151-1164.	0.8	27
57	CHLOROPLAST DNA EVIDENCE FOR GENOME DIFFERENTIATION IN WILD POTATOES (<i>SOLANUM</i> SECT. <i>PETOTA</i>); Tj ETQq1 1 0,78431	0.8	26
58	Molecular Phylogeny of <i>Daucus</i> (<i>Apiaceae</i>). <i>Systematic Botany</i> , 2013, 38, 850-857.	0.2	25
59	A Reexamination of Species Boundaries Between <i>Solanum megistacrolobum</i> and <i>S. toralapanum</i> (<i>Solanum</i> sect. <i>Petota</i> , series <i>Megistacroloba</i>): Morphological Data. <i>Systematic Botany</i> , 1994, 19, 89.	0.2	24
60	Characterization of resistance to <i>Globodera rostochiensis</i> pathotype Ro1 in cultivated and wild potato species accessions from the Vavilov Institute of Plant Industry. <i>Plant Breeding</i> , 2014, 133, 660-665.	1.0	24
61	How do we address the disconnect between genetic and morphological diversity in germplasm collections?. <i>American Journal of Botany</i> , 2015, 102, 1213-1215.	0.8	23
62	Bolivia potato germplasm collecting expeditions 1993, 1994: Taxonomy and new germplasm resources. <i>Euphytica</i> , 1994, 79, 137-148.	0.6	22
63	The Enigma of <i>Solanum maglia</i> in the Origin of the Chilean Cultivated Potato, <i>Solanum tuberosum</i> <i>Chilotanum</i> Group1. <i>Economic Botany</i> , 2012, 66, 12-21.	0.8	22
64	Introgression of <i>Solanum chacoense</i> (<i>Solanum</i> sect. <i>Petota</i>): Upland Populations Reexamined. <i>Systematic Botany</i> , 1996, 21, 461.	0.2	21
65			

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73	Greatly reduced phylogenetic structure in the cultivated potato clade (<i>Solanum</i> section) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	16
74	A reexamination of infraspecific taxa of a wild potato, <i>Solanum microdontum</i> (<i>Solanum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,702 Td (se	0.3	15
75	Wild potato (<i>Solanum</i> sect. <i>Petota</i>) germplasm collecting expedition to Argentina in 1990, and status of Argentinian potato germplasm resources. <i>Potato Research</i> , 1993, 36, 3-12.	1.2	15
76	Potato germplasm collecting expedition to the Guaitecas and chonos Archipelagos, Chile, 1990. <i>Potato Research</i> , 1993, 36, 309-316.	1.2	15
77	Plant genetic resources of Nepal: A guide for plant breeders of agricultural, horticultural and forestry crops. <i>Euphytica</i> , 1996, 87, 189-210.	0.6	15
78	Species and series boundaries of <i>Solanum</i> series <i>Longipedicellata</i> (<i>Solanaceae</i>) and phenetically similar species in ser. <i>Demissa</i> and ser. <i>Tuberosa</i> : implications for a practical taxonomy of Section <i>Petota</i> . <i>American Journal of Botany</i> , 2001, 88, 113-130.	0.8	15
79	A Morphometric Study of Species Boundaries of the Wild Potato <i>Solanum</i> Series <i>Piurana</i> (<i>Solanaceae</i>) and Putatively Related Species from Seven Other Series in <i>Solanum</i> Sect. <i>Petota</i> . <i>Systematic Botany</i> , 2008, 33, 566-578.	0.2	15
80	Asymmetric single-strand conformation polymorphism: An accurate and cost-effective method to amplify and sequence allelic variants. <i>American Journal of Botany</i> , 2011, 98, 1061-1067.	0.8	15
81	Fruit morphological descriptors as a tool for discrimination of <i>Daucus</i> L. germplasm. <i>Genetic Resources and Crop Evolution</i> , 2014, 61, 499-510.	0.8	15
82	Integrated Molecular and Morphological Studies of the <i>Daucus guttatus</i> Complex (<i>Apiaceae</i>). <i>Systematic Botany</i> , 2016, 41, 479-492.	0.2	15
83	The United States Potato Introduction Station Herbarium. <i>Taxon</i> , 1994, 43, 489-496.	0.4	15
84	Biogeographic Implications of the Striking Discovery of a 4,000 Kilometer Disjunct Population of the Wild Potato <i>Solanum morelliforme</i> in South America. <i>Systematic Botany</i> , 2011, 36, 1062-1067.	0.2	14
85	Levels of Intra-specific AFLP Diversity in Tuber-Bearing Potato Species with Different Breeding Systems and Ploidy Levels. <i>Frontiers in Genetics</i> , 2017, 8, 119.	1.1	14
86	The potato: Evolution, biodiversity and genetic resources. J.G. Hawkes. <i>American Potato Journal</i> , 1990, 67, 733-735.	0.4	13
87	Taxonomy and new collections of wild potato species in Central and Southern Peru in 1999. <i>American Journal of Potato Research</i> , 2001, 78, 197-207.	0.5	13
88	Phylogenetic Relationships of <i>Solanum</i> Series <i>Conicibaccata</i> and Related Species in <i>Solanum</i> Section <i>Petota</i> Inferred from Five Conserved Ortholog Sequences. <i>Systematic Botany</i> , 2011, 36, 163-170.	0.2	13
89	Relationships among wild relatives of the tomato, potato, and pepino. <i>Taxon</i> , 2016, 65, 262-276.	0.4	13
90	CHLOROPLAST DNA EVIDENCE FOR GENOME DIFFERENTIATION IN WILD POTATOES (<i>SOLANUM</i> SECT. <i>PETOTA</i> :) Tj ETQq0 0 0 rgBT /Ov	0.0	13

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91	Synonymy Within Wild Potatoes (<i>Solanum</i> sect. <i>Petota</i> : Solanaceae): The Case of <i>Solanum andreanum</i> . <i>Systematic Botany</i> , 1993, 18, 209.	0.2	12
92	Characterization of resistance to <i>Synchytrium endobioticum</i> in cultivated potato accessions from the collection of Vavilov Institute of Plant Industry. <i>Plant Breeding</i> , 2012, 131, 744-750.	1.0	12
93	Distributions and Conservation Status of Carrot Wild Relatives in Tunisia: A Case Study in the Western Mediterranean Basin. <i>Crop Science</i> , 2019, 59, 2317-2328.	0.8	12
94	What is truth: Consensus and discordance in next-generation phylogenetic analyses of <i>Daucus</i> . <i>Journal of Systematics and Evolution</i> , 2020, 58, 1059-1070.	1.6	11
95	ALLOZYME VARIATION WITHIN SOLANUM SECT. PETOTA, SER. ETUBEROSA (SOLANACEAE). , 1992, 79, 467.		11
96	<i>Solanum</i> sect. <i>petota</i> in Guatemala; Taxonomy and genetic resources. <i>American Journal of Potato Research</i> , 1998, 75, 3-17.	0.5	10
97	13. Origins, Evolution, and Group Classification of Cultivated Potatoes. , 2006, , 285-307.		10
98	Wild and Cultivated Potato (<i>Solanum</i> sect. <i>Petota</i>) Escaped and Persistent Outside of its Natural Range. <i>Invasive Plant Science and Management</i> , 2010, 3, 286-293.	0.5	10
99	Lectotype Designation for Seven Species Names in the <i>Daucus guttatus</i> Complex (Apiaceae) from the Central and Eastern Mediterranean Basin. <i>Systematic Botany</i> , 2016, 41, 464-478.	0.2	10
100	Potato germplasm collecting expedition to Mexico in 1997: Taxonomy and new germplasm resources. <i>American Journal of Potato Research</i> , 2000, 77, 261-270.	0.5	9
101	A Morphometric Study of Species Boundaries of the Wild Potato <i>Solanum</i> Series <i>Conicibaccata</i> : a Replicated Field Trial in Andean Peru. <i>Systematic Botany</i> , 2008, 33, 183-192.	0.2	8
102	Genotyping-by-sequencing reveals the origin of the Tunisian relatives of cultivated carrot (<i>Daucus</i>)	0.8	8
103	<i>Daucus</i> : Taxonomy, Phylogeny, Distribution. <i>Compendium of Plant Genomes</i> , 2019, , 9-26.	0.3	8
104	Colombia and Venezuela 1992 wild potato (<i>Solanum</i> sect. <i>Petota</i>) germplasm collecting expedition: taxonomy and new germplasm resources. <i>Euphytica</i> , 1995, 81, 45-56.	0.6	7
105	Revision of the <i>Solanum medians</i> Complex (<i>Solanum</i> section <i>Petota</i>). <i>Systematic Botany</i> , 2008, 33, 579-588.	0.2	7
106	Multivariate analysis of morphological diversity among closely related <i>Daucus</i> species and subspecies in Tunisia. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 2145-2159.	0.8	7
107	Genome diversity of the potato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6392-E6393.	3.3	7
108	Linking the potato genome to the conserved ortholog set (COS) markers. <i>BMC Genetics</i> , 2013, 14, 51.	2.7	6

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109	REPRODUCTIVE FEATURES OF DENTARIA LACINIATA AND D. DIPHYLLA (CRUCIFERAE), AND THE IMPLICATIONS IN THE TAXONOMY OF THE EASTERN NORTH AMERICAN DENTARIA COMPLEX. <i>American Journal of Botany</i> , 1984, 71, 999-1005.	0.8	5
110	Límites entre subespecies de las papas silvestres <i>Solanum bulbocastanum</i> y <i>S. cardiophyllum</i> definidos con base en datos morfológicos y nucleares de RFLP. <i>Acta Botanica Mexicana</i> , 2002, , 9-25.	0.1	5
111	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.		5
112	Subspecies Variation of <i>Daucus carota</i> Coastal (Gummifer) Morphotypes (Apiaceae) Using Genotyping-by-Sequencing. <i>Systematic Botany</i> , 2020, 45, 688-702.	0.2	4
113	<i>Solanum</i> Section <i>Petota</i> in Costa Rica: Taxonomy and genetic resources. <i>American Journal of Potato Research</i> , 2001, 78, 91-98.	0.5	3
114	<i>Solanum clarum</i> and <i>S. morelliforme</i> as Novel Model Species for Studies of Epiphytism. <i>Frontiers in Plant Science</i> , 2016, 7, 231.	1.7	3
115	Phylogenetic Prediction of <i>Alternaria</i> Leaf Blight Resistance in Wild and Cultivated Species of Carrots. <i>Crop Science</i> , 2017, 57, 2645-2653.	0.8	3
116	Extended studies of interspecific relationships in <i>Daucus</i> (Apiaceae) using DNA sequences from ten nuclear orthologues. <i>Botanical Journal of the Linnean Society</i> , 2019, 191, 164-187.	0.8	3
117	Mitochondrial DNA Sequence Phylogeny of <i>Daucus</i> . <i>Systematic Botany</i> , 2020, 45, 403-408.	0.2	3
118	Potato. <i>CSSA Special Publication - Crop Science Society of America</i> , 0, , 195-217.	0.1	1
119	Species and series boundaries of <i>Solanum</i> series <i>Longipedicellata</i> (Solanaceae) and phenetically similar species in ser. <i>Demissa</i> and ser. <i>Tuberosa</i> : implications for a practical taxonomy of Section <i>Petota</i> . <i>American Journal of Botany</i> , 2000, 88, 113-130.	0.8	1
120	Carrot Organelle Genomes: Organization, Diversity, and Inheritance. <i>Compendium of Plant Genomes</i> , 2019, , 205-223.	0.3	0
121	PTIS Potato Herbarium Transferred to WIS, the Wisconsin State Herbarium. <i>American Journal of Potato Research</i> , 2019, 96, 625-628.	0.5	0