Matthew Lavin

List of Publications by Year in descending order

95 papers	8,419 citations	71102 41 h-index	48315 88 g-index
97 all docs	97 docs citations	97 times ranked	7418 citing authors

#	Article	IF	Citations
1	Systematics of <i>Vigna</i> subgenus <i>Lasiospron</i> (Leguminosae: Papilionoideae: Phaseolinae). Systematic Botany, 2022, 47, 97-124.	0.5	0
2	Distinguishing among Pisum accessions using a hypervariable intron within Mendelâ€™s green/yellow cotyledon gene. Genetic Resources and Crop Evolution, 2021, 68, 2591-2609.	1.6	3
3	Is whitebark pine less sensitive to climate warming when climate tolerances of juveniles are considered?. Forest Ecology and Management, 2021, 493, 119221.	3.2	4
4	Indaziflam controls nonnative <i>Alyssum</i> spp. but negatively affects native forbs in sagebrush steppe. Invasive Plant Science and Management, 2021, 14, 253-261.	1.1	5
5	Biomes as evolutionary arenas: Convergence and conservatism in the transâ€continental succulent biome. Global Ecology and Biogeography, 2020, 29, 1100-1113.	5.8	34
6	An Economical Approach to Distinguish Genetically Needles of Limber from Whitebark Pine. Forests, 2019, 10, 1060.	2.1	2
7	Ancient speciation of the papilionoid legume <i>Luetzelburgia jacana</i>, a newly discovered species in an interâ€Andean seasonally dry valley of Colombia. Taxon, 2018, 67, 931-943.	0.7	9
8	Phylogenetic Systematics and Biogeography of the Pantropical Genus <i>Sesbania</i> (Leguminosae). Systematic Botany, 2018, 43, 414-429.	0.5	16
9	DNA Sequence Variation among Conspecific Accessions of the Legume Coursetia caribaea Reveals Geographically Localized Clades Here Ranked as Species. Systematic Botany, 2018, 43, 664-675.	0.5	20
10	A new subfamily classification of the Leguminosae based on a taxonomically comprehensive phylogeny: The Legume Phylogeny Working Group (LPWG). Taxon, 2017, 66, 44-77.	0.7	803
11	Dispersal assembly of rain forest tree communities across the Amazon basin. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2645-2650.	7.1	103
12	Dispersal, isolation and diversification with continued gene flow in an Andean tropical dry forest. Molecular Ecology, 2017, 26, 3327-3329.	3.9	3
13	The contrasting nature of woody plant species in different neotropical forest biomes reflects differences in ecological stability. New Phytologist, 2016, 210, 25-37.	7.3	108
14	Drivers of Bromus tectorum Abundance in the Western North American Sagebrush Steppe. Ecosystems, 2016, 19, 986-1000.	3.4	27
15	A dated phylogeny of the papilionoid legume genus Canavalia reveals recent diversification by a pantropical liana lineage. Molecular Phylogenetics and Evolution, 2016, 98, 133-146.	2.7	37
16	Honey Bee Infecting Lake Sinai Viruses. Viruses, 2015, 7, 3285-3309.	3.3	73
17	A Phylogenetic Analysis of Molecular and Morphological Data Reveals a Paraphyletic <I>Poecilanthe</I> (Leguminosae, Papilionoideae). Systematic Botany, 2014, 39, 1142-1149.	0.5	11
18	Fitting CRISPR-associated Cas3 into the Helicase Family Tree. Current Opinion in Structural Biology, 2014, 24, 106-114.	5.7	59

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19	Bromus tectorum Response to Fire Varies with Climate Conditions. Ecosystems, 2014, 17, 960-973.	3.4	33
20	Exploring evolutionarily meaningful vegetation definitions in the tropics: a community phylogenetic approach. , 2014, , 239-260.		3
21	Stability structures tropical woody plant diversity more than seasonality: Insights into the ecology of high legume-succulent-plant biodiversity. South African Journal of Botany, 2013, 89, 42-57.	2.5	47
22	Reconstructing the deep-branching relationships of the papilionoid legumes. South African Journal of Botany, 2013, 89, 58-75.	2.5	189
23	Towards a new classification system for legumes: Progress report from the 6th International Legume Conference. South African Journal of Botany, 2013, 89, 3-9.	2.5	51
24	Peltiera(Fabaceae), the coming and going of an â€œextinctâ€•genus in Madagascar. Adansonia, 2013, 35, 61-71.	0.2	4
25	A molecular phylogeny of the vataireoid legumes underscores floral evolvability that is general to many earlyâ€branching papilionoid lineages. American Journal of Botany, 2013, 100, 403-421.	1.7	39
26	Legume phylogeny and classification in the 21st century: Progress, prospects and lessons for other speciesâ€"rich clades. Taxon, 2013, 62, 217-248.	0.7	305
27	Physical disturbance shapes vascular plant diversity more profoundly than fire in the sagebrush steppe of southeastern Idaho, U.S.A. Ecology and Evolution, 2013, 3, 1626-1641.	1.9	13
28	Steinbachiella (Leguminosae: Papilionoideae: Dalbergieae), endemic to Bolivia, is reinstated as an accepted genus. Kew Bulletin, 2012, 67, 789-796.	0.9	11
29	Revisiting the phylogeny of papilionoid legumes: New insights from comprehensively sampled earlyâ€branching lineages. American Journal of Botany, 2012, 99, 1991-2013.	1.7	187
30	The Bowdichia clade of Genistoid legumes: Phylogenetic analysis of combined molecular and morphological data and a recircumscription of <i>Diplotropis</i>. Taxon, 2012, 61, 1074-1087.	0.7	31
31	The realignment of <i>Acosmium</i> sensu stricto with the Dalbergioid clade (Leguminosae:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf earlyÂbranching papilionoid legumes. Taxon, 2012, 61, 1057-1073.	0.7	37
32	Keeping it simple: flowering plants tend to retain, and revert to, simple leaves. New Phytologist, 2012, 193, 481-493.	7.3	34
33	Evolutionary islands in the Andes: persistence and isolation explain high endemism in Andean dry tropical forests. Journal of Biogeography, 2012, 39, 884-900.	3.0	178
34	<i>Coursetia</i> (Leguminosae) From Eastern Brazil: Nuclear Ribosomal and Chloroplast DNA Sequence Analysis reveal the Monophyly of Three Caatinga-inhabiting Species. Systematic Botany, 2011, 36, 69-79.	0.5	48
35	<i>Vigna</i> (Leguminosae) sensu lato: The names and identities of the American segregate genera. American Journal of Botany, 2011, 98, 1694-1715.	1.7	81
36	<i>Poissonia eriantha</i> (Leguminosae) From Cuzco, Peru: An Overlooked Species Underscores a Pattern of Narrow Endemism Common to Seasonally Dry Neotropical Vegetation. Systematic Botany, 2011, 36, 59-68.	0.5	20

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37	A late methanogen origin for molybdenumâ€dependent nitrogenase. Geobiology, 2011, 9, 221-232.	2.4	141
38	[FeFe]-hydrogenase in Yellowstone National Park: evidence for dispersal limitation and phylogenetic niche conservatism. ISME Journal, 2010, 4, 1485-1495.	9.8	63
39	Biogeographical, ecological and morphological structure in a phylogenetic analysis of Ateleia (Swartzieae, Fabaceae) derived from combined molecular, morphological and chemical data. Botanical Journal of the Linnean Society, 2010, 162, 39-53.	1.6	17
40	Use of Cellular CRISPR (Clusters of Regularly Interspaced Short Palindromic Repeats) Spacer-Based Microarrays for Detection of Viruses in Environmental Samples. Applied and Environmental Microbiology, 2010, 76, 7251-7258.	3.1	69
41	The Morphological and Phylogenetic Distinctions of <i>Coursetia greenmanii</i> (Leguminosae): Taxonomic and Ecological Implications. Systematic Botany, 2010, 35, 289-295.	0.5	19
42	Contrasting plant diversification histories within the Andean biodiversity hotspot. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13783-13787.	7.1	191
43	Woody Plant Diversity, Evolution, and Ecology in the Tropics: Perspectives from Seasonally Dry Tropical Forests. Annual Review of Ecology, Evolution, and Systematics, 2009, 40, 437-457.	8.3	573
44	Phylogeny of the tribe Indigofereae (Leguminosaeâ€“Papilionoideae): Geographically structured more in succulentâ€rich and temperate settings than in grassâ€rich environments. American Journal of Botany, 2009, 96, 816-852.	1.7	125
45	The Impact of Ecology and Biogeography on Legume Diversity, Endemism, and Phylogeny in the Caribbean Region: A New Direction in Historical Biogeography. Botanical Review, The, 2008, 74, 178-196.	3.9	23
46	Ectomycorrhizal fungi of whitebark pine (a tree in peril) revealed by sporocarps and molecular analysis of mycorrhizae from treeline forests in the Greater Yellowstone Ecosystem. Botany, 2008, 86, 14-25.	1.0	25
47	Phaseolus vulgaris: A Diploid Model for Soybean. , 2008, , 55-76.		28
48	Virus movement maintains local virus population diversity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19102-19107.	7.1	70
49	The Genus Machaerium (Leguminosae) is More Closely Related to Aeschynomene Sect. Ochopodium than to Dalbergia: Inferences From Combined Sequence Data. Systematic Botany, 2007, 32, 762-771.	0.5	33
50	Insights into the historical construction of speciesâ€rich biomes from dated plant phylogenies, neutral ecological theory and phylogenetic community structure. New Phytologist, 2006, 172, 605-616.	7.3	186
51	Phylogeny of the Genus <I>Phaseolus</I> (Leguminosae): A Recent Diversification in an Ancient Landscape. Systematic Botany, 2006, 31, 779-791.	0.5	168
52	Floristic and Geographical Stability of Discontinuous Seasonally Dry Tropical Forests Explains Patterns of Plant Phylogeny and Endemism. , 2006, , 433-447.		15
53	Evolutionary Rates Analysis of Leguminosae Implicates a Rapid Diversification of Lineages during the Tertiary. Systematic Biology, 2005, 54, 575-594.	5.6	813
54	Climate change and speciation in neotropical seasonally dry forest plants. , 2005, , 199-214.		3

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55	Phylogeny and Biogeography of Wajira (Leguminosae): A Monophyletic Segregate of Vigna Centered in the Horn of Africa Region. Systematic Botany, 2004, 29, 903-920.	0.5	44
56	Phylogenetic Systematics of Strophostyles (Fabaceae): A North American Temperate Genus Within a Neotropical Diversification. Systematic Botany, 2004, 29, 627-653.	0.5	16
57	Metacommunity process rather than continental tectonic history better explains geographically structured phylogenies in legumes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 1509-1522.	4.0	156
58	A phylogeny of legumes (Leguminosae) based on analysis of the plastid<i>mat</i><i>K</i>gene resolves many wellâ€supported subclades within the family. American Journal of Botany, 2004, 91, 1846-1862.	1.7	699
59	Historical climate change and speciation: neotropical seasonally dry forest plants show patterns of both Tertiary and Quaternary diversification. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 515-538.	4.0	385
60	(1639â€“1640) Proposals to change the conserved type of <i> Phaseolus helvolus</i>,<i> nom</i>. <i>cons</i>. and to conserve the name <i>Glycine umbellata</i> with a conserved type (<i>Fabaceae</i>). Taxon, 2004, 53, 839-841.	0.7	2
61	Heterogeneous Selection on LEGCYC Paralogs in Relation to Flower Morphology and the Phylogeny of Lupinus (Leguminosae). Molecular Biology and Evolution, 2003, 21, 321-331.	8.9	58
62	Identifying Tertiary Radiations of Fabaceae in the Greater Antilles: Alternatives to Cladistic Vicariance Analysis. International Journal of Plant Sciences, 2001, 162, S53-S76.	1.3	46
63	The dalbergioid legumes (Fabaceae): delimitation of a pantropical monophyletic clade. American Journal of Botany, 2001, 88, 503-533.	1.7	222
64	Africa, the Odd Man Out: Molecular Biogeography of Dalbergioid Legumes (Fabaceae) Suggests Otherwise. Systematic Botany, 2000, 25, 449.	0.5	94
65	Phylogenetic systematics of the tribe Millettieae (Leguminosae) based on chloroplast trn K / mat K sequences and its implications for evolutionary patterns in Papilionoideae. American Journal of Botany, 2000, 87, 418-430.	1.7	165
66	Phylogenetic Analysis of the Cultivated and Wild Species of Phaseolus (Fabaceae). Systematic Botany, 1999, 24, 438.	0.5	138
67	Monograph of Pictetia (Leguminosae-Papilionoideae) and Review of the Aeschynomeneae. Systematic Botany Monographs, 1999, 56, 1.	1.2	41
68	Phylogenetic reconstruction based on low copy DNA sequence data in an allopolyploid: The B genome of wheat. Genome, 1999, 42, 351-360.	2.0	89
69	Monophyletic subgroups of the tribe Millettieae (Leguminosae) as revealed by phytochrome nucleotide sequence data. American Journal of Botany, 1998, 85, 412-433.	1.7	58
70	A Biosystematic Study of Castilleja crista-galli (Scrophulariaceae): An Allopolyploid Origin Reexamined. Systematic Botany, 1998, 23, 213.	0.5	7
71	Astragalus molybdenus s.l. (Leguminosae): Higher Taxonomic Relationships and Identity of Constituent Species. Systematic Botany, 1997, 22, 199.	0.5	5
72	Silk Tree, Guanacaste, Monkey's Earring. A Generic System for the Synandrous Mimosaceae of the Americas. Part I. Abarema, Albizia, and Allies.. Systematic Botany, 1997, 22, 407.	0.5	17

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73	Evolution of the Phytochrome Gene Family and Its Utility for Phylogenetic Analyses of Angiosperms. Annals of the Missouri Botanical Garden, 1995, 82, 296.	1.3	98
74	Phylogenetic Systematics and Biogeography of the Tribe Robinieae (Leguminosae). Systematic Botany Monographs, 1995, 45, 1.	1.2	42
75	Genetic Diversity in Hard Red Spring Wheat Based on Sequenceâ€Taggedâ€Site PCR Markers. Crop Science, 1994, 34, 1628-1632.	1.8	68
76	Biogeography and Systematics of Poitea (Leguminosae): Inferences from Morphological and Molecular Data. Systematic Botany Monographs, 1993, 37, 1.	1.2	20
77	ORIGINS AND RELATIONSHIPS OF TROPICAL NORTH AMERICA IN THE CONTEXT OF THE BOREOTROPICS HYPOTHESIS. American Journal of Botany, 1993, 80, 1-14.	1.7	166
78	Origins and Relationships of Tropical North America in the Context of the Boreotropics Hypothesis. American Journal of Botany, 1993, 80, 1.	1.7	69
79	Sensitivae Censitae: A Description of the Genus Mimosa Linnaeus (Mimosaceae) in the New World.. Systematic Botany, 1992, 17, 694.	0.5	3
80	Contributions of Molecular Data to Papilionoid Legume Systematics. , 1992, , 223-251.		21
81	CHLOROPLAST DNA VARIATION IN GLIRICIDIA SEPIUM (LEGUMINOSAE): INTRASPECIFIC PHYLOGENY AND TOKOGENY. American Journal of Botany, 1991, 78, 1576-1585.	1.7	47
82	Tribal Relationships of Sphinctospermum (Leguminosae): Integration of Traditional and Chloroplast DNA Data. Systematic Botany, 1991, 16, 162.	0.5	23
83	Chloroplast DNA Variation in Gliricidia sepium (Leguminosae): Intraspecific Phylogeny and Tokogeny. American Journal of Botany, 1991, 78, 1576.	1.7	17
84	The Genus Sphinctospermum (Leguminosae): Taxonomy and Tribal Relationships as Inferred from a Cladistic Analysis of Traditional Data. Systematic Botany, 1990, 15, 544.	0.5	10
85	EVOLUTIONARY SIGNIFICANCE OF THE LOSS OF THE CHLOROPLASTâ€DNA INVERTED REPEAT IN THE LEGUMINOSAE SUBFAMILY PAPILIONOIDEAE. Evolution; International Journal of Organic Evolution, 1990, 44, 390-402.	2.3	180
86	POLLEN BRUSH OF PAPILIONOIDEAE (LEGUMINOSAE): MORPHOLOGICAL VARIATION AND SYSTEMATIC UTILITY. American Journal of Botany, 1990, 77, 1294-1312.	1.7	42
87	Evolutionary Significance of the Loss of the Chloroplast-DNA Inverted Repeat in the Leguminosae Subfamily Papilionoideae. Evolution; International Journal of Organic Evolution, 1990, 44, 390.	2.3	66
88	Pollen Brush of Papilionoideae (Leguminosae): Morphological Variation and Systematic Utility. American Journal of Botany, 1990, 77, 1294.	1.7	21
89	Distribution and Evolution of a Glucosephosphate Isomerase Duplication in the Leguminosae. Evolution; International Journal of Organic Evolution, 1989, 43, 1637.	2.3	7
90	DISTRIBUTION AND EVOLUTION OF A GLUCOSEPHOSPHATE ISOMERASE DUPLICATION IN THE LEGUMINOSAE. Evolution; International Journal of Organic Evolution, 1989, 43, 1637-1651.	2.3	15

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91	Systematics of Coursetia (Leguminosae-Papilionoideae). Systematic Botany Monographs, 1988, 21, 1.	1.2	31
92	The Madrensis Group of Coursetia (Leguminosae: Robinieae). Systematic Botany, 1987, 12, 106.	0.5	0
93	Balboa (Fabaceae: Millettieae) Reduced to Cracca (Robinieae). Brittonia, 1986, 38, 302.	0.2	1
94	The occurrence of canavanine in seeds of the tribe robinieae. Biochemical Systematics and Ecology, 1986, 14, 71-73.	1.3	6
95	New Records for the Moss Flora of Nevada. Bryologist, 1981, 84, 93.	0.6	3