Tia-Lynn Ashman

List of Publications by Year
in descending order

141 papers	12,454 citations	47006 47 h-index	29157 104 g-index
150 all docs	150 docs citations	150 times ranked	11696 citing authors

#	Article	IF	Citations
1	The genome of woodland strawberry (Fragaria vesca). Nature Genetics, 2011, 43, 109-116.	21.4	1,091
2	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
3	POLLEN LIMITATION OF PLANT REPRODUCTION: ECOLOGICAL AND EVOLUTIONARY CAUSES AND CONSEQUENCES. Ecology, 2004, 85, 2408-2421.	3.2	1,004
4	Sex Determination: Why So Many Ways of Doing It?. PLoS Biology, 2014, 12, e1001899.	5.6	916
5	Pollen Limitation of Plant Reproduction: Pattern and Process. Annual Review of Ecology, Evolution, and Systematics, 2005, 36, 467-497.	8.3	888
6	Polyploidy: an evolutionary and ecological force in stressful times. Plant Cell, 2021, 33, 11-26.	6.6	325
7	How long should flowers live?. Nature, 1994, 371, 788-791.	27.8	301
8	Pollination decays in biodiversity hotspots. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 956-961.	7.1	259
9	A quantitative synthesis of pollen supplementation experiments highlights the contribution of resource reallocation to estimates of pollen limitation. American Journal of Botany, 2006, 93, 271-277.	1.7	198
10	Evolutionary Origins and Dynamics of Octoploid Strawberry Subgenomes Revealed by Dense Targeted Capture Linkage Maps. Genome Biology and Evolution, 2014, 6, 3295-3313.	2.5	197
11	About PAR: The distinct evolutionary dynamics of the pseudoautosomal region. Trends in Genetics, 2011, 27, 358-367.	6.7	184
12	Toward a predictive understanding of the fitness costs of heterospecific pollen receipt and its importance in coâ€flowering communities. American Journal of Botany, 2013, 100, 1061-1070.	1.7	180
13	Explaining phenotypic selection on plant attractive characters: male function, gender balance or ecological context?. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 553-559.	2.6	172
14	<i>Fragaria</i>: A genus with deep historical roots and ripe for evolutionary and ecological insights. American Journal of Botany, 2014, 101, 1686-1699.	1.7	149
15	Seasonal Variation in Pollination Dynamics of Sexually Dimorphic Sidalcea Oregana SSP. Spicata (Malvaceae). Ecology, 1991, 72, 993-1003.	3.2	147
16	Insights into phylogeny, sex function and age of Fragaria based on whole chloroplast genome sequencing. Molecular Phylogenetics and Evolution, 2013, 66, 17-29.	2.7	144
17	A Dynamic Perspective on the Physiological Cost of Reproduction in Plants. American Naturalist, 1994, 144, 300-316.	2.1	139
18	THE ROLE OF HERBIVORES IN THE EVOLUTION OF SEPARATE SEXES FROM HERMAPHRODITISM. Ecology, 2002, 83, 1175-1184.	3.2	138

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19	Polyploidy: A Biological Force From Cells to Ecosystems. Trends in Cell Biology, 2020, 30, 688-694.	7.9	136
20	THE SCENT OF A MALE: THE ROLE OF FLORAL VOLATILES IN POLLINATION OF A GENDER DIMORPHIC PLANT. Ecology, 2005, 86, 2099-2105.	3.2	134
21	POLLINATOR SELECTIVITY AND ITS IMPLICATIONS FOR THE EVOLUTION OF DIOECY AND SEXUAL DIMORPHISM. Ecology, 2000, 81, 2577-2591.	3.2	129
22	The cost of floral longevity in Clarkia tembloriensis: An experimental investigation. Evolutionary Ecology, 1997, 11, 289-300.	1.2	116
23	Trait selection in flowering plants: how does sexual selection contribute?. Integrative and Comparative Biology, 2006, 46, 465-472.	2.0	110
24	Gynodioecy to dioecy: are we there yet?. Annals of Botany, 2012, 109, 531-543.	2.9	105
25	Dissecting the causes of variation in intraâ€inflorescence allocation in a sexually polymorphic species, Fragaria virginiana (Rosaceae). American Journal of Botany, 2000, 87, 197-204.	1.7	101
26	Floral pigmentation patterns provide an example of Gloger's rule in plants. Nature Plants, 2015, 1, 14007.	9.3	97
27	The sweet smell of success: floral scent affects pollinator attraction and seed fitness in <i>Hesperis matronalis</i>. Functional Ecology, 2009, 23, 480-487.	3.6	92
28	Widespread vulnerability of flowering plant seed production to pollinator declines. Science Advances, 2021, 7, eabd3524.	10.3	92
29	Variation in Floral Sex Allocation with Time of Season and Currency. Ecology, 1992, 73, 1237-1243.	3.2	88
30	Sniffing out patterns of sexual dimorphism in floral scent. Functional Ecology, 2009, 23, 852-862.	3.6	88
31	Heterospecific pollen deposition: does diversity alter the consequences?. New Phytologist, 2011, 192, 738-746.	7.3	87
32	Repeated translocation of a gene cassette drives sex-chromosome turnover in strawberries. PLoS Biology, 2018, 16, e2006062.	5.6	85
33	Functional trait divergence and trait plasticity confer polyploid advantage in heterogeneous environments. New Phytologist, 2019, 221, 2286-2297.	7.3	84
34	Land use and pollinator dependency drives global patterns of pollen limitation in the Anthropocene. Nature Communications, 2020, 11, 3999.	12.8	84
35	Dissecting pollinator responses to a ubiquitous ultraviolet floral pattern in the wild. Functional Ecology, 2014, 28, 868-877.	3.6	82
36	THE EVOLUTION OF FLORAL LONGEVITY: RESOURCE ALLOCATION TO MAINTENANCE VERSUS CONSTRUCTION OF REPEATED PARTS IN MODULAR ORGANISMS. Evolution; International Journal of Organic Evolution, 1995, 49, 131-139.	2.3	81

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37	Ovule number per flower in a world of unpredictable pollination. American Journal of Botany, 2009, 96, 1159-1167.	1.7	81
38	Reproductive allocation in hermaphrodite and female plants of <i>Sidalcea oregana</i> SSP. <i>spicata</i> (Malvaceae) using four currencies. American Journal of Botany, 1994, 81, 433-438.	1.7	78
39	The Impact of Biochemistry vs. Population Membership on Floral Scent Profiles in Colour Polymorphic Hesperis matronalis. Annals of Botany, 2008, 102, 911-922.	2.9	63
40	Herbivory alters the expression of a mixedâ€mating system. American Journal of Botany, 2004, 91, 1046-1051.	1.7	61
41	A phylogenetically controlled analysis of the roles of reproductive traits in plant invasions. Oecologia, 2011, 166, 1009-1017.	2.0	60
42	Patterns of amongâ€and withinâ€species variation in heterospecific pollen receipt: The importance of ecological generalization. American Journal of Botany, 2016, 103, 396-407.	1.7	60
43	SEX-DIFFERENTIAL RESISTANCE AND TOLERANCE TO HERBIVORY IN A GYNODIOECIOUS WILD STRAWBERRY. Ecology, 2004, 85, 2550-2559.	3.2	59
44	Revisiting the origin of octoploid strawberry. Nature Genetics, 2020, 52, 2-4.	21.4	58
45	Pollinators contribute to the maintenance of flowering plant diversity. Nature, 2021, 597, 688-692.	27.8	57
46	Sources of floral scent variation. Plant Signaling and Behavior, 2009, 4, 129-131.	2.4	56
47	The effects of host species and sexual dimorphism differ among root, leaf and flower microbiomes of wild strawberries in situ. Scientific Reports, 2018, 8, 5195.	3.3	56
48	Is reproduction of endemic plant species particularly pollen limited in biodiversity hotspots?. Oikos, 2010, 119, 1192-1200.	2.7	53
49	Understanding the basis of pollinator selectivity in sexually dimorphic Fragaria virginiana. Oikos, 2000, 90, 347-356.	2.7	52
50	Comparison of nuclear, plastid, and mitochondrial phylogenies and the origin of wild octoploid strawberry species. American Journal of Botany, 2015, 102, 544-554.	1.7	52
51	The case for the continued use of the genus name <i>Mimulus</i> for all monkeyflowers. Taxon, 2019, 68, 617-623.	0.7	51
52	Gazing into the anthosphere: considering how microbes influence floral evolution. New Phytologist, 2019, 224, 1012-1020.	7.3	50
53	Flower colorâ€“flower scent associations in polymorphic Hesperis matronalis (Brassicaceae). Phytochemistry, 2007, 68, 865-874.	2.9	49
54	Comparative Genetic Mapping Points to Different Sex Chromosomes in Sibling Species of Wild Strawberry (Fragaria). Genetics, 2010, 186, 1425-1433.	2.9	49

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55	Macroevolutionary patterns of ultraviolet floral pigmentation explained by geography and associated bioclimatic factors. New Phytologist, 2016, 211, 708-718.	7.3	49
56	A piece of the puzzle: a method for comparing pollination quality and quantity across multiple species and reproductive events. New Phytologist, 2012, 193, 532-542.	7.3	47
57	Among-species differences in pollen quality and quantity limitation: implications for endemics in biodiverse hotspots. Annals of Botany, 2013, 112, 1461-1469.	2.9	47
58	Invasion status and phylogenetic relatedness predict cost of heterospecific pollen receipt: implications for native biodiversity decline. Journal of Ecology, 2016, 104, 1003-1008.	4.0	47
59	Plantâ€“flower visitor networks in a serpentine metacommunity: assessing traits associated with keystone plant species. Arthropod-Plant Interactions, 2015, 9, 9-21.	1.1	46
60	Are flowerâ€visiting ants mutualists or antagonists? A study in a gynodioecious wild strawberry. American Journal of Botany, 2005, 92, 891-895.	1.7	45
61	CONSEQUENCES OF VEGETATIVE HERBIVORY FOR MAINTENANCE OF INTERMEDIATE OUTCROSSING IN AN ANNUAL PLANT. Ecology, 2006, 87, 2717-2727.	3.2	45
62	Consequences of invasion for pollen transfer and pollination revealed in a tropical island ecosystem. New Phytologist, 2019, 221, 142-154.	7.3	44
63	The Limits on Sexual Dimorphism in Vegetative Traits in a Gynodioecious Plant. American Naturalist, 2005, 166, S5-S16.	2.1	43
64	Bioclimatic evaluation of geographical range in<i>Fragaria</i>(Rosaceae): consequences of variation in breeding system, ploidy and species age. Botanical Journal of the Linnean Society, 2014, 176, 99-114.	1.6	42
65	Floral Pigmentation Has Responded Rapidly to Global Change in Ozone and Temperature. Current Biology, 2020, 30, 4425-4431.e3.	3.9	41
66	Apparent vs. effective mating in an experimental population of Raphanus sativus. Oecologia, 1993, 96, 102-107.	2.0	40
67	Polyploidy and sexual system in angiosperms: Is there an association?. American Journal of Botany, 2016, 103, 1223-1235.	1.7	39
68	Plastid genomes reveal recurrent formation of allopolyploid <i>Fragaria</i>. American Journal of Botany, 2018, 105, 862-874.	1.7	39
69	Predominance of self-compatibility in hummingbird-pollinated plants in the Neotropics. Die Naturwissenschaften, 2013, 100, 69-79.	1.6	38
70	Associative learning of flowers by generalist bumble bees can be mediated by microbes on the petals. Behavioral Ecology, 2019, 30, 746-755.	2.2	38
71	Genome duplication effects on functional traits and fitness are genetic context and species dependent: studies of synthetic polyploid <i>Fragaria</i>. American Journal of Botany, 2020, 107, 262-272.	1.7	38
72	Homomorphic <scp>ZW</scp> chromosomes in a wild strawberry showÂdistinctive recombination heterogeneity but a small sexâ€determining region. New Phytologist, 2016, 211, 1412-1423.	7.3	37

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73	Dioecy does not consistently accelerate or slow lineage diversification across multiple genera of angiosperms. New Phytologist, 2016, 209, 1290-1300.	7.3	37
74	Movers and shakers: Bumble bee foraging behavior shapes the dispersal of microbes among and within flowers. Ecosphere, 2019, 10, e02714.	2.2	37
75	Interactive effects between donor and recipient species mediate fitness costs of heterospecific pollen receipt in a co-flowering community. Oecologia, 2019, 189, 1041-1047.	2.0	37
76	Edaphic factors and plantâ€“insect interactions: direct and indirect effects of serpentine soil on florivores and pollinators. Oecologia, 2013, 173, 1355-1366.	2.0	36
77	Bioclimatic, ecological, and phenotypic intermediacy and high genetic admixture in a natural hybrid of octoploid strawberries. American Journal of Botany, 2013, 100, 939-950.	1.7	36
78	Coflowering Community Context Influences Female Fitness and Alters the Adaptive Value of Flower Longevity in<i>Mimulus guttatus</i>. American Naturalist, 2014, 183, E50-E63.	2.1	36
79	Community-wide assessment of pollen limitation in hummingbird-pollinated plants of a tropical montane rain forest. Annals of Botany, 2013, 112, 903-910.	2.9	35
80	Meta-Analysis of Pollen Limitation Reveals the Relevance of Pollination Generalization in the Atlantic Forest of Brazil. PLoS ONE, 2014, 9, e89498.	2.5	35
81	An altitudinal cline in UV floral pattern corresponds with a behavioral change of a generalist pollinator assemblage. Ecology, 2015, 96, 3343-3353.	3.2	34
82	Pollen on stigmas as proxies of pollinator competition and facilitation: complexities, caveats and future directions. Annals of Botany, 2020, 125, 1003-1012.	2.9	34
83	Is relative pollen production or removal a good predictor of relative male fitness? an experimental exploration with a wild strawberry (Fragaria virginiana , Rosaceae). American Journal of Botany, 1998, 85, 1166-1171.	1.7	33
84	Sex ratio and subdioecy in<i>Fragaria virginiana</i>: the roles of plasticity and gene flow examined. New Phytologist, 2011, 190, 1058-1068.	7.3	32
85	Floral organs act as environmental filters and interact with pollinators to structure the yellow monkeyflower (<i>Mimulus guttatus</i>) floral microbiome. Molecular Ecology, 2019, 28, 5155-5171.	3.9	32
86	Integrating microbes into pollination. Current Opinion in Insect Science, 2021, 44, 48-54.	4.4	31
87	Flower morphology and pollinator dynamics in <i>Solanum carolinense</i> (Solanaceae): implications for the evolution of andromonoecy. American Journal of Botany, 2008, 95, 974-984.	1.7	30
88	Heterospecific pollen receipt affects self pollen more than outcross pollen: implications for mixedâ€mating plants. Ecology, 2014, 95, 2946-2952.	3.2	30
89	Global geographic patterns of heterospecific pollen receipt help uncover potential ecological and evolutionary impacts across plant communities worldwide. Scientific Reports, 2019, 9, 8086.	3.3	28
90	Quantitative Variation, Heritability, and Trait Correlations for Ultraviolet Floral Traits in<i>Argentina anserina</i>(Rosaceae): Implications for Floral Evolution. International Journal of Plant Sciences, 2013, 174, 1109-1120.	1.3	27

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91	Nickel Accumulation by Streptanthus polygaloides (Brassicaceae) Reduces Floral Visitation Rate. Journal of Chemical Ecology, 2014, 40, 128-135.	1.8	27
92	Patterns of pollen quantity and quality limitation of preâ€zygotic reproduction in <i>Mimulus guttatus</i> vary with coâ€flowering community context. Oikos, 2014, 123, 1261-1269.	2.7	26
93	Effect of heterospecific pollen deposition on pollen tube growth depends on the phylogenetic relatedness between donor and recipient. AoB PLANTS, 2020, 12, plaa016.	2.3	26
94	Functional characterization of gynodioecy in Fragaria vesca ssp. bracteata (Rosaceae). Annals of Botany, 2012, 109, 545-552.	2.9	25
95	Drivers of pollen limitation: macroecological interactions between breeding system, rarity, and diversity. Plant Ecology and Diversity, 2013, 6, 171-180.	2.4	25
96	Higher ploidy is associated with reduced range breadth in the Potentilleae tribe. American Journal of Botany, 2018, 105, 700-710.	1.7	25
97	Diversity and composition of pollen loads carried by pollinators are primarily driven by insect traits, not floral community characteristics. Oecologia, 2021, 196, 131-143.	2.0	25
98	Pollen transfer networks reveal alien species as main heterospecific pollen donors with fitness consequences for natives. Journal of Ecology, 2021, 109, 939-951.	4.0	24
99	Sex-allocation plasticity in hermaphrodites of sexually dimorphic Fragaria virginiana (Rosaceae). Botany, 2010, 88, 231-240.	1.0	23
100	The direct effects of plant polyploidy on the legumeâ€“rhizobia mutualism. Annals of Botany, 2018, 121, 209-220.	2.9	23
101	Pollinators mediate floral microbial diversity and microbial network under agrochemical disturbance. Molecular Ecology, 2021, 30, 2235-2247.	3.9	23
102	Nickel accumulation in leaves, floral organs and rewards varies by serpentine soil affinity. AoB PLANTS, 2014, 6, .	2.3	22
103	The role of alien species on plant-floral visitor network structure in invaded communities. PLoS ONE, 2019, 14, e0218227.	2.5	22
104	Polyploid plants obtain greater fitness benefits from a nutrient acquisition mutualism. New Phytologist, 2020, 227, 944-954.	7.3	22
105	The pollen virome of wild plants and its association with variation in floral traits and land use. Nature Communications, 2022, 13, 523.	12.8	22
106	Resources and pollinators contribute to population sexâ€ratio bias and pollen limitation in<i>Fragaria virginiana</i>(Rosaceae). Oikos, 2009, 118, 1250-1260.	2.7	21
107	Variation in nickel accumulation in leaves, reproductive organs and floral rewards in two hyperaccumulating Brassicaceae species. Plant and Soil, 2014, 383, 349-356.	3.7	21
108	Considering the unintentional consequences of pollinator gardens for urban native plants: is the road to extinction paved with good intentions?. New Phytologist, 2017, 215, 1298-1305.	7.3	21

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109	A Network Approach to Understanding Patterns of Coflowering in Diverse Communities. International Journal of Plant Sciences, 2018, 179, 569-582.	1.3	21
110	Plant traits moderate pollen limitation of introduced and native plants: a phylogenetic metaâ€analysis of global scale. New Phytologist, 2019, 223, 2063-2075.	7.3	20
111	Effects of floral metal accumulation on floral visitor communities: Introducing the elemental filter hypothesis. American Journal of Botany, 2015, 102, 379-389.	1.7	19
112	Variation in sampling effort affects the observed richness of plantâ€“plant interactions via heterospecific pollen transfer: implications for interpretation of pollen transfer networks. American Journal of Botany, 2018, 105, 1601-1608.	1.7	18
113	Is heterospecific pollen receipt the missing link in understanding pollen limitation of plant reproduction?. American Journal of Botany, 2020, 107, 845-847.	1.7	18
114	Sexes show differential tolerance to spittlebug damage and consequences of damage for multiâ€species interactions. American Journal of Botany, 2005, 92, 1708-1713.	1.7	16
115	Autopolyploidy alters noduleâ€level interactions in the legume<i>â€“</i>rhizobium mutualism. American Journal of Botany, 2020, 107, 179-185.	1.7	16
116	Spatially explicit depiction of a floral epiphytic bacterial community reveals role for environmental filtering within petals. MicrobiologyOpen, 2021, 10, e1158.	3.0	16
117	Pollen on Stigmas of Herbarium Specimens: A Window into the Impacts of a Century of Environmental Disturbance on Pollen Transfer. American Naturalist, 2019, 194, 405-413.	2.1	15
118	Genetic Mapping and Phylogenetic Analysis Reveal Intraspecific Variation in Sex Chromosomes of the Virginian Strawberry. Journal of Heredity, 2017, 108, 731-739.	2.4	14
119	Herbicides as anthropogenic drivers of ecoâ€evo feedbacks in plant communities at the agroâ€ecological interface. Molecular Ecology, 2021, 30, 5406-5421.	3.9	14
120	Quantitative Character Evolution under Complicated Sexual Systems, Illustrated in GynodioeciousFragaria virginiana. American Naturalist, 2003, 162, 257-264.	2.1	13
121	Presentâ€day sympatry belies the evolutionary origin of a highâ€order polyploid. New Phytologist, 2017, 216, 279-290.	7.3	13
122	Pollinator effectiveness is affected by intraindividual behavioral variation. Oecologia, 2021, 197, 189-200.	2.0	13
123	Genotypic variation in floral volatiles influences floral microbiome more strongly than interactions with herbivores and mycorrhizae in strawberries. Horticulture Research, 2022, 9, .	6.3	13
124	A first test of elemental allelopathy via heterospecific pollen receipt. American Journal of Botany, 2016, 103, 514-521.	1.7	12
125	ABA-regulated ploidy-related genes and non-structural carbon accumulation may underlie cold tolerance in tetraploid Fragaria moupinensis. Environmental and Experimental Botany, 2020, 179, 104232.	4.2	12
126	Chromosome-scale assembly with a phased sex-determining region resolves features of early Z and W chromosome differentiation in a wild octoploid strawberry. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	11

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127	Effects of heterospecific pollen from a windâ€pollinated and pesticideâ€treated plant on reproductive success of an insectâ€pollinated species. American Journal of Botany, 2018, 105, 836-841.	1.7	9
128	Pollinator Selectivity and Its Implications for the Evolution of Dioecy and Sexual Dimorphism. Ecology, 2000, 81, 2577.	3.2	9
129	Nitrogen fertilization differentially enhances nodulation and host growth of two invasive legume species in an urban environment. Journal of Urban Ecology, 2018, 4, .	1.5	8
130	Recipient and donor characteristics govern the hierarchical structure of heterospecific pollen competition networks. Journal of Ecology, 2021, 109, 2329-2341.	4.0	8
131	Elemental composition of serpentine plants depends on habitat affinity and organ type. Journal of Plant Nutrition and Soil Science, 2014, 177, 851-859.	1.9	7
132	Effects of soil metals on pollen germination, fruit production, and seeds per fruit differ between a Ni hyperaccumulator and a congeneric nonaccumulator. Plant and Soil, 2017, 420, 493-503.	3.7	7
133	Floral Color Properties of Serpentine Seep Assemblages Depend on Community Size and Species Richness. Frontiers in Plant Science, 2020, 11, 602951.	3.6	5
134	Flower lifespan and disease risk. Nature, 1996, 379, 780-780.	27.8	4
135	Damage and recovery from drift of synthetic-auxin herbicide dicamba depends on concentration and varies among floral, vegetative, and lifetime traits in rapid cycling Brassica rapa. Science of the Total Environment, 2021, 801, 149732.	8.0	4
136	Geographic patterns of genetic variation in three genomes of North American diploid strawberries with special reference to Fragaria vesca subsp. bracteata. Botany, 2015, 93, 573-588.	1.0	3
137	â€œThe Strawberry Caperâ€. American Biology Teacher, 2015, 77, 50-54.	0.2	3
138	Herbicides and their potential to disrupt plantâ€insect chemical communication. Journal of Systematics and Evolution, 0, , .	3.1	3
139	Coding-Complete Genome Sequence of a Pollen-Associated Virus Belonging to the Secoviridae Family Recovered from a Japanese Apricot (Prunus mume) Metagenome Data Set. Microbiology Resource Announcements, 2019, 8, .	0.6	2
140	POLLINATOR SELECTIVITY AND ITS IMPLICATIONS FOR THE EVOLUTION OF DIOECY AND SEXUAL DIMORPHISM. , 2000, 81, 2577.		1
141	Reply to Robson et al.. Current Biology, 2021, 31, R887-R888.	3.9	0