

Lawrence D Harder

List of Publications by Year in descending order

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123
papers

11,838
citations

31949

53
h-index

29127

104
g-index

125
all docs

125
docs citations

125
times ranked

7690
citing authors

#	ARTICLE	IF	CITATIONS
1	Wild Pollinators Enhance Fruit Set of Crops Regardless of Honey Bee Abundance. <i>Science</i> , 2013, 339, 1608-1611.	6.0	1,767
2	The Global Stock of Domesticated Honey Bees Is Growing Slower Than Agricultural Demand for Pollination. <i>Current Biology</i> , 2009, 19, 915-918.	1.8	794
3	Mating cost of large floral displays in hermaphrodite plants. <i>Nature</i> , 1995, 373, 512-515.	13.7	497
4	Evolutionary Options for Maximizing Pollen Dispersal of Animal-Pollinated Plants. <i>American Naturalist</i> , 1989, 133, 323-344.	1.0	444
5	EXPANDING THE LIMITS OF THE POLLEN-LIMITATION CONCEPT: EFFECTS OF POLLEN QUANTITY AND QUALITY. <i>Ecology</i> , 2007, 88, 271-281.	1.5	409
6	Darwin's beautiful contrivances: evolutionary and functional evidence for floral adaptation. <i>New Phytologist</i> , 2009, 183, 530-545.	3.5	340
7	Evolution and Development of Inflorescence Architectures. <i>Science</i> , 2007, 316, 1452-1456.	6.0	333
8	Global growth and stability of agricultural yield decrease with pollinator dependence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5909-5914.	3.3	310
9	Ecology and evolution of plant mating. <i>Trends in Ecology and Evolution</i> , 1996, 11, 73-79.	4.2	288
10	The comparative biology of pollination and mating in flowering plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1996, 351, 1271-1280.	1.8	269
11	Pollen Dispersal and Mating Patterns in Animal-Pollinated Plants. , 1996, , 140-190.		223
12	Pollen Removal by Bumble Bees and Its Implications for Pollen Dispersal. <i>Ecology</i> , 1990, 71, 1110-1125.	1.5	180
13	Consumptive emasculation: the ecological and evolutionary consequences of pollen theft. <i>Biological Reviews</i> , 2009, 84, 259-276.	4.7	178
14	Morphology as a Predictor of Flower Choice by Bumble Bees. <i>Ecology</i> , 1985, 66, 198-210.	1.5	171
15	Effects of nectar concentration and flower depth on flower handling efficiency of bumble bees. <i>Oecologia</i> , 1986, 69, 309-315.	0.9	159
16	Flower handling efficiency of bumble bees: morphological aspects of probing time. <i>Oecologia</i> , 1983, 57, 274-280.	0.9	151
17	Function and Evolution of Aggregated Pollen in Angiosperms. <i>International Journal of Plant Sciences</i> , 2008, 169, 59-78.	0.6	148
18	Behavioral responses by bumble bees to variation in pollen availability. <i>Oecologia</i> , 1990, 85, 41-47.	0.9	146

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19	A Clarification of Pollen Discounting and Its Joint Effects with Inbreeding Depression on Mating System Evolution. <i>American Naturalist</i> , 1998, 152, 684-695.	1.0	139
20	Floral adaptation and diversification under pollen limitation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 529-543.	1.8	138
21	The Ecology of Mating and Its Evolutionary Consequences in Seed Plants. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2017, 48, 135-157.	3.8	137
22	The Functional Significance of Poricidal Anthers and Buzz Pollination: Controlled Pollen Removal From Dodecatheon. <i>Functional Ecology</i> , 1994, 8, 509.	1.7	133
23	Floral evolution and male reproductive success: Optimal dispensing schedules for pollen dispersal by animal-pollinated plants. <i>Evolutionary Ecology</i> , 1994, 8, 542-559.	0.5	129
24	The mating consequences of sexual segregation within inflorescences of flowering plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 315-320.	1.2	124
25	The evolution of staminodes in angiosperms: patterns of stamen reduction, loss, and functional re-invention. <i>American Journal of Botany</i> , 2000, 87, 1367-1384.	0.8	122
26	Adaptive plasticity of floral display size in animal-pollinated plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2651-2657.	1.2	121
27	Floral and inflorescence effects on variation in pollen removal and seed production among six legume species. <i>Functional Ecology</i> , 2005, 19, 245-254.	1.7	119
28	Beyond floricentrism: The pollination function of inflorescences. <i>Plant Species Biology</i> , 2004, 19, 137-148.	0.6	117
29	Pollen Removal From Tristyloous <i>Pontederia Cordata</i> : Effects of Anther Position and Pollinator Specialization. <i>Ecology</i> , 1993, 74, 1059-1072.	1.5	107
30	The interplay between inflorescence development and function as the crucible of architectural diversity. <i>Annals of Botany</i> , 2013, 112, 1477-1493.	1.4	107
31	Coordinated species importation policies are needed to reduce serious invasions globally: The case of alien bumblebees in South America. <i>Journal of Applied Ecology</i> , 2019, 56, 100-106.	1.9	99
32	Why are Bumble Bees Risk Averse?. <i>Ecology</i> , 1987, 68, 1104-1108.	1.5	98
33	Effects of Flower Number and Position on Self-Fertilization in Experimental Populations of <i>Eichhornia paniculata</i> (Pontederiaceae). <i>Functional Ecology</i> , 1994, 8, 526.	1.7	96
34	When mutualism goes bad: density-dependent impacts of introduced bees on plant reproduction. <i>New Phytologist</i> , 2014, 204, 322-328.	3.5	95
35	Size-Dependent Resource Allocation and Costs of Reproduction in <i>Pinguicula Vulgaris</i> (Lentibulariaceae). <i>Journal of Ecology</i> , 1996, 84, 195.	1.9	90
36	Response of traplining bumble bees to competition experiments: shifts in feeding location and efficiency. <i>Oecologia</i> , 1987, 71, 295-300.	0.9	87

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37	The Energy Cost of Bee Pollination for <i>Pontederia cordata</i> (Pontederiaceae). <i>Functional Ecology</i> , 1992, 6, 226.	1.7	85
38	Pollen fates and the limits on male reproductive success in an orchid population. <i>Biological Journal of the Linnean Society</i> , 2005, 86, 175-190.	0.7	85
39	Measurement and estimation of functional proboscis length in bumblebees (Hymenoptera: Apidae). <i>Canadian Journal of Zoology</i> , 1982, 60, 1073-1079.	0.4	84
40	Sexual reproduction and variation in floral morphology in an ephemeral vernal lily, <i>Erythronium americanum</i> . <i>Oecologia</i> , 1985, 67, 286-291.	0.9	80
41	An Evaluation of the Physiological and Evolutionary Influences of Inflorescence Size and Flower Depth on Nectar Production. <i>Functional Ecology</i> , 1990, 4, 559.	1.7	79
42	Non-equilibrium dynamics and floral trait interactions shape extant angiosperm diversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152304.	1.2	79
43	GENDER VARIATION IN <i>SAGITTARIA LATIFOLIA</i> (ALISMATACEAE): IS SIZE ALL THAT MATTERS?. <i>Ecology</i> , 2001, 82, 360-373.	1.5	75
44	Reproductive Uncertainty and the Relative Competitiveness of Simultaneous Hermaphroditism versus Dioecy. <i>American Naturalist</i> , 2003, 162, 220-241.	1.0	74
45	Development of aquatic insect eggs in relation to temperature and strategies for dealing with different thermal environments. <i>Biological Journal of the Linnean Society</i> , 1996, 58, 221-244.	0.7	73
46	THEORETICAL CONSEQUENCES OF HETEROGENEOUS TRANSPORT CONDITIONS FOR POLLEN DISPERSAL BY ANIMALS. <i>Ecology</i> , 1998, 79, 2789-2807.	1.5	73
47	Direct and indirect responses to selection on pollen size in <i>Brassica rapa</i> L.. <i>Journal of Evolutionary Biology</i> , 2001, 14, 456-468.	0.8	71
48	Heteromorphic Incompatibility and Efficiency of Pollination in Two Distylous <i>Pentstemon</i> Species (Rubiaceae). <i>Annals of Botany</i> , 2004, 95, 389-399.	1.4	70
49	Unilateral incompatibility and the effects of interspecific pollination for <i>Erythronium americanum</i> and <i>Erythronium albidum</i> (Liliaceae). <i>Canadian Journal of Botany</i> , 1993, 71, 353-358.	1.2	63
50	THE BUMBLE BEES OF EASTERN CANADA. <i>Canadian Entomologist</i> , 1988, 120, 965-987.	0.4	62
51	Mammal pollinators lured by the scent of a parasitic plant. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2303-2310.	1.2	61
52	Pollen load, capsule weight, and seed production in three orchid species. <i>Canadian Journal of Botany</i> , 1994, 72, 249-255.	1.2	60
53	Inflorescence architecture and wind pollination in six grass species. <i>Functional Ecology</i> , 2004, 18, 851-860.	1.7	58
54	CORRELATED EVOLUTION OF FLORAL MORPHOLOGY AND MATING-TYPE FREQUENCIES IN A SEXUALLY POLYMORPHIC PLANT. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 964-975.	1.1	56

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55	EFFECTS OF REPRODUCTIVE COMPENSATION, GAMETE DISCOUNTING AND REPRODUCTIVE ASSURANCE ON MATING-SYSTEM DIVERSITY IN HERMAPHRODITES. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 157-172.	1.1	56
56	Pollen-size comparisons among animal-pollinated angiosperms with different pollination characteristics. <i>Biological Journal of the Linnean Society</i> , 1998, 64, 513-525.	0.7	54
57	Variation in Pollination: Causes and Consequences for Plant Reproduction. <i>American Naturalist</i> , 2009, 174, 382-398.	1.0	54
58	Size-number tradeoffs and pollen production by Papilionaceous legumes. <i>American Journal of Botany</i> , 1995, 82, 230-238.	0.8	53
59	Native pollen thieves reduce the reproductive success of a hermaphroditic plant, <i>Aloe maculata</i> . <i>Ecology</i> , 2010, 91, 1693-1703.	1.5	53
60	What do foraging hummingbirds maximize?. <i>Oecologia</i> , 1984, 63, 357-363.	0.9	50
61	The evolution of polymorphic sexual systems in daffodils (<i>Narcissus</i>). <i>New Phytologist</i> , 2005, 165, 45-53.	3.5	49
62	The effects of floral design and display on pollinator economics and pollen dispersal. , 2001, , 297-317.		48
63	Floral traits mediate the vulnerability of aloes to pollen theft and inefficient pollination by bees. <i>Annals of Botany</i> , 2012, 109, 761-772.	1.4	45
64	Economic motivation for plant species preferences of pollen-collecting bumble bees. <i>Ecological Entomology</i> , 1997, 22, 209-219.	1.1	44
65	Manipulation of Bee Behavior by Inflorescence Architecture and Its Consequences for Plant Mating. <i>American Naturalist</i> , 2006, 167, 496-509.	1.0	43
66	Invasive bees and their impact on agriculture. <i>Advances in Ecological Research</i> , 2020, 63, 49-92.	1.4	42
67	Effect of Pollination Success on Floral Longevity in the Orchid <i>Calypso bulbosa</i> (Orchidaceae). <i>American Journal of Botany</i> , 1995, 82, 1131.	0.8	38
68	Foraging currencies for non-energetic resources: pollen collection by bumblebees. <i>Animal Behaviour</i> , 1997, 54, 911-926.	0.8	37
69	VESTIGIAL ORGANS AS OPPORTUNITIES FOR FUNCTIONAL INNOVATION: THE EXAMPLE OF THE PENSTEMON STAMINODE. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 477.	1.1	37
70	Functional associations of floret and inflorescence traits among grass species. <i>American Journal of Botany</i> , 2005, 92, 1862-1870.	0.8	37
71	The size of individual <i>Delphinium</i> flowers and the opportunity for geitonogamous pollination. <i>Functional Ecology</i> , 2006, 20, 1115-1123.	1.7	37
72	Phenological associations of within- and among-plant variation in gender with floral morphology and integration in protandrous <i>Delphinium glaucum</i> . <i>Journal of Ecology</i> , 2012, 100, 1029-1038.	1.9	37

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73	The population ecology of male gametophytes: the link between pollination and seed production. <i>Ecology Letters</i> , 2016, 19, 497-509.	3.0	36
74	Functional differences of the proboscides of short- and long-tongued bees (Hymenoptera, Apoidea). <i>Canadian Journal of Zoology</i> , 1983, 61, 1580-1586.	0.4	34
75	Choice of Individual Flowers By Bumble Bees: Interaction of Morphology, Time and Energy. <i>Behaviour</i> , 1988, 104, 60-76.	0.4	34
76	Variation in ovule and seed size and associated sizeâ€“number tradeâ€“offs in angiosperms. <i>American Journal of Botany</i> , 2007, 94, 840-846.	0.8	34
77	<i>Aloe inconspicua</i> : The first record of an exclusively insect-pollinated aloe. <i>South African Journal of Botany</i> , 2008, 74, 606-612.	1.2	32
78	Lunar Phase Modulates Circadian Gene Expression Cycles in the Broadcast Spawning Coral <i>Acropora millepora</i> . <i>Biological Bulletin</i> , 2016, 230, 130-142.	0.7	32
79	Short-Term Energy Maximization and Risk-Aversion in Bumble Bees: A Reply to Possingham Et Al.. <i>Ecology</i> , 1990, 71, 1625-1628.	1.5	30
80	Consequences of preformation for dynamic resource allocation by a carnivorous herb, <i>Pinguicula vulgaris</i> (Lentibulariaceae). <i>American Journal of Botany</i> , 1999, 86, 1136-1145.	0.8	30
81	Consequences of Multiple Inflorescences and Clonality for Pollinator Behavior and Plant Mating. <i>American Naturalist</i> , 2014, 184, 580-592.	1.0	30
82	Floral variation in <i>Eichhornia paniculata</i> (Spreng.) Solms (Pontederiaceae) II. Effects of development and environment on the formation of selfing flowers. <i>Journal of Evolutionary Biology</i> , 1992, 5, 83-107.	0.8	29
83	Gender Variation in <i>Sagittaria latifolia</i> (Alismataceae): Is Size All That Matters?. <i>Ecology</i> , 2001, 82, 360.	1.5	29
84	New strategies for increasing heterozygosity in crops: <i>Vicia faba</i> mating system as a study case. <i>Euphytica</i> , 2005, 143, 51-65.	0.6	28
85	Bumble-bee learning selects for both early and long flowering in food-deceptive plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1538-1543.	1.2	26
86	Size-number trade-offs and pollen production by Papilionaceous legumes. , 1995, 82, 230.		25
87	The dynamic mosaic phenotypes of flowering plants. <i>New Phytologist</i> , 2019, 224, 1021-1034.	3.5	24
88	Geographic variation in the growth of domesticated honey-bee stocks. <i>Communicative and Integrative Biology</i> , 2009, 2, 464-466.	0.6	23
89	Diverse ecological relations of male gametophyte populations in stylar environments. <i>American Journal of Botany</i> , 2016, 103, 484-497.	0.8	23
90	Evolutionary and Ecological Consequences of Multiscale Variation in Pollen Receipt for Seed Production. <i>American Naturalist</i> , 2015, 185, E14-E29.	1.0	21

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91	Sterile flowers increase pollinator attraction and promote female success in the Mediterranean herb <i>Leopoldia comosa</i> . <i>Annals of Botany</i> , 2013, 111, 103-111.	1.4	20
92	Flies (Diptera) as pollinators of two dioecious plants: behaviour and implications for plant mating. <i>Canadian Entomologist</i> , 2007, 139, 235-246.	0.4	18
93	Inflorescence characteristics as function-valued traits: Analysis of heritability and selection on architectural effects. <i>Journal of Systematics and Evolution</i> , 2017, 55, 559-565.	1.6	18
94	Heritable allometric variation in bumble bees: opportunities for colony-level selection of foraging ability. <i>Journal of Evolutionary Biology</i> , 1995, 8, 725-738.	0.8	17
95	Questions about floral (dis)integration. <i>New Phytologist</i> , 2009, 183, 247-248.	3.5	17
96	Winter use of montane forests by porcupines in southwestern Alberta: preferences, density effects, and temporal changes. <i>Canadian Journal of Zoology</i> , 1980, 58, 13-19.	0.4	16
97	The evolution of floral nectaries in <i>Disa</i> (Orchidaceae: Disinae): recapitulation or diversifying innovation?. <i>Annals of Botany</i> , 2013, 112, 1303-1319.	1.4	16
98	Mating consequences of contrasting hermaphroditic plant sexual systems. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 2114-2128.	1.1	16
99	The nature of interspecific interactions and diversification patterns, as illustrated by the fig microcosm. <i>New Phytologist</i> , 2019, 224, 1304-1315.	3.5	16
100	The functional significance of synchronous protandry in <i>Alstroemeria aurea</i> . <i>Functional Ecology</i> , 2004, 18, 467-474.	1.7	15
101	Influences on the density and dispersion of bumble bee nests (Hymenoptera: Apidae). <i>Ecography</i> , 1986, 9, 99-103.	2.1	14
102	Demand-driven resource investment in annual seed production by a perennial angiosperm precludes resource limitation. <i>Ecology</i> , 2013, 94, 51-61.	1.5	14
103	Effects of defoliation and shading on the physiological cost of reproduction in silky locoweed <i>Oxytropis sericea</i> . <i>Annals of Botany</i> , 2012, 109, 237-246.	1.4	13
104	Using a "time machine" to test for local adaptation of aquatic microbes to temporal and spatial environmental variation. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 136-145.	1.1	13
105	THE RESPONSE OF LARVAL GROWTH RATE TO TEMPERATURE IN THREE SPECIES OF COENAGRIONID DRAGONFLIES WITH SOME COMMENTS ON <i>LESTES DISJUNCTUS</i> (ODONATA: COENAGRIONIDAE.) <i>Tj ETQq1 d. 0.7843 14 rgBT / Dv</i>	1.4	14
106	The mating consequences of rewarding vs. deceptive pollination systems: Is there a quantity-quality trade-off?. <i>Ecological Monographs</i> , 2017, 87, 91-104.	2.4	11
107	The costs and benefits of pollinator dependence: empirically based simulations predict raspberry fruit quality. <i>Ecological Applications</i> , 2018, 28, 1215-1222.	1.8	11
108	HOW DEPRESSED? ESTIMATES OF INBREEDING EFFECTS DURING SEED DEVELOPMENT DEPEND ON REPRODUCTIVE CONDITIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1375-1386.	1.1	10

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109	The consequences of demand-driven seed provisioning for sexual differences in reproductive investment in <i>Thalictrum occidentale</i> (Ranunculaceae). <i>Journal of Ecology</i> , 2015, 103, 269-280.	1.9	10
110	The influences of progenitor filtering, domestication selection and the boundaries of nature on the domestication of grain crops. <i>Functional Ecology</i> , 2021, 35, 1998-2011.	1.7	9
111	Age composition of some vespertilionid bats as determined by dental annuli. <i>Canadian Journal of Zoology</i> , 1978, 56, 355-358.	0.4	8
112	Pollen-size comparisons among animal-pollinated angiosperms with different pollination characteristics. <i>Biological Journal of the Linnean Society</i> , 1998, 64, 513-525.	0.7	7
113	VESTIGIAL ORGANS AS OPPORTUNITIES FOR FUNCTIONAL INNOVATION: THE EXAMPLE OF THE PENSTEMON STAMINODE. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 477-487.	1.1	6
114	Flower orientation influences the consistency of bumblebee movement within inflorescences. <i>Annals of Botany</i> , 2016, 118, 523-527.	1.4	6
115	Behavioural responses by a bumble bee to competition with a niche-constructing congener. <i>Journal of Animal Ecology</i> , 2022, 91, 580-592.	1.3	6
116	Physical tidepool characteristics affect age- and size-class distributions and site fidelity in tidepool sculpin (<i>Oligocottus maculosus</i>). <i>Canadian Journal of Zoology</i> , 2018, 96, 1326-1335.	0.4	5
117	Does acoustic priming "sweeten the pot" of floral nectar?. <i>Ecology Letters</i> , 2020, 23, 1550-1552.	3.0	4
118	Mechanisms of Male-Male Interference during Dispersal of Orchid Pollen. <i>American Naturalist</i> , 2021, 197, 250-265.	1.0	4
119	Habitat effects on reproductive phenotype, pollinator behavior, fecundity, and mating outcomes of a bumble bee-pollinated herb. <i>American Journal of Botany</i> , 2022, 109, 470-485.	0.8	4
120	The truth about honeybees. <i>New Scientist</i> , 2009, 204, 26-27.	0.0	3
121	Tracking Pollen Fates in Orchid Populations. <i>Springer Protocols</i> , 2018, , 227-239.	0.1	3
122	No statistical evidence that honey bees competitively reduced wild bee abundance in the Munich Botanic Garden—a comment on Renner et al. (2021). <i>Oecologia</i> , 2022, 198, 337.	0.9	1
123	VARIATIONS ON A THEME-THE ECOLOGY AND EVOLUTION OF WITHIN-PLANT DIVERSITY. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2184.	1.1	0