Arthur E Weis

List of Publications by Year
in descending order

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87 papers	4,686 citations	101543 36 h-index	106344 65 g-index
91 all docs	91 docs citations	91 times ranked	4096 citing authors

#	Article	IF	Citations
1	Rapid evolution of flowering time by an annual plant in response to a climate fluctuation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1278-1282.	7.1	920
2	Time after time: flowering phenology and biotic interactions. Trends in Ecology and Evolution, 2007, 22, 432-439.	8.7	556
3	THE CONSEQUENCES OF FLORAL HERBIVORY FOR POLLINATOR SERVICE TOISOMERIS ARBOREA. Ecology, 1999, 80, 125-134.	3.2	153
4	Evolution of Host-Plant Manipulation by Gall Makers: Ecological and Genetic Factors in the Solidago-eurosta System. American Naturalist, 1986, 127, 681-695.	2.1	143
5	Potential Selective Pressures by Parasitoids on a Plant-Herbivore Interaction. Ecology, 1985, 66, 1261-1269.	3.2	122
6	THE EFFECT OF FLORAL HERBIVORY ON MALE AND FEMALE REPRODUCTIVE SUCCESS INISOMERIS ARBOREA. Ecology, 1999, 80, 135-149.	3.2	113
7	MEASURING SELECTION ON REACTION NORMS: AN EXPLORATION OF THE EUROSTAâ€SOLIDAGO SYSTEM. Evolution; International Journal of Organic Evolution, 1990, 44, 820-831.	2.3	107
8	Genetic variation in flowering time induces phenological assortative mating: quantitative genetic methods applied to Brassica rapa. American Journal of Botany, 2004, 91, 825-836.	1.7	101
9	Goldenrod Ball Gall Effects on Solidago altissima: 14C Translocation and Growth. Ecology, 1985, 66, 1902-1907.	3.2	99
10	Host gall size and oviposition success by the parasitoid Eurytoma gigantea. Ecological Entomology, 1985, 10, 341-348.	2.2	92
11	Using the resurrection approach to understand contemporary evolution in changing environments. Evolutionary Applications, 2018, 11, 17-28.	3.1	91
12	VARIABLE SELECTION ON EUROSTA 'S GALL SIZE, I: THE EXTENT AND NATURE OF VARIATION IN PHENOTYPIC SELECTION. Evolution; International Journal of Organic Evolution, 1992, 46, 1674-1697.	2.3	87
13	The Resurrection Initiative: Storing Ancestral Genotypes to Capture Evolution in Action. BioScience, 2008, 58, 870-873.	4.9	86
14	Phenological responses to multiple environmental drivers under climate change: insights from a longâ€term observational study and a manipulative field experiment. New Phytologist, 2018, 218, 517-529.	7.3	82
15	Variation in selection pressures on the goldenrod gall fly and the competitive interactions of its natural enemies. Oecologia, 1989, 79, 15-22.	2.0	79
16	The Consequences of Floral Herbivory for Pollinator Service to Isomeris arborea. Ecology, 1999, 80, 125.	3.2	75
17	Impact of ecological factors on the initial invasion of Bt transgenes into wild populations of birdseed rape (Brassica rapa). Theoretical and Applied Genetics, 2004, 109, 806-814.	3.6	68
18	Manipulation of host plant development by the gall-midge Rhabdophaga strobiloides. Ecological Entomology, 1984, 9, 457-465.	2.2	67

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19	EVOLUTIONARY RADIATION OF "STONE PLANTS" IN THE GENUS ARGYRODERMA (AIZOACEAE): UNRAVELING THE EFFECTS OF LANDSCAPE, HABITAT, AND FLOWERING TIME. Evolution; International Journal of Organic Evolution, 2006, 60, 39-55.	2.3	65
20	Pollen packing affects the function of pollen on corbiculate bees but not non-corbiculate bees. Arthropod-Plant Interactions, 2015, 9, 197-203.	1.1	61
21	Evolutionary radiation of "stone plants" in the genus Argyroderma (Aizoaceae): unraveling the effects of landscape, habitat, and flowering time. Evolution; International Journal of Organic Evolution, 2006, 60, 39-55.	2.3	61
22	Selective Pressures on Clutch Size in the Gall Maker Asteromyia Carbonifera. Ecology, 1983, 64, 688-695.	3.2	60
23	Coexistence and differentiation of 'flowering stones': the role of local adaptation to soil microenvironment. Journal of Ecology, 2006, 94, 322-335.	4.0	60
24	Project Baseline: An unprecedented resource to study plant evolution across space and time. American Journal of Botany, 2016, 103, 164-173.	1.7	58
25	Differential abortion in the yucca. Nature, 1995, 376, 557-558.	27.8	51
26	Measuring Selection on Reaction Norms: An Exploration of the Eurosta-solidago System. Evolution; International Journal of Organic Evolution, 1990, 44, 820.	2.3	47
27	Climate change alters reproductive isolation and potential gene flow in an annual plant. Evolutionary Applications, 2009, 2, 481-488.	3.1	46
28	The Diverse Effects of Intraspecific Competition on the Selective Advantage to Resistance: A Model and Its Predictions. American Naturalist, 2000, 156, 276-292.	2.1	44
29	Title is missing!. Plant Ecology, 1998, 134, 151-162.	1.6	43
30	Detecting the â€œinvisible fractionâ€•bias in resurrection experiments. Evolutionary Applications, 2018, 11, 88-95.	3.1	43
31	Two decades of evolutionary changes in Brassica rapa in response to fluctuations in precipitation and severe drought. Evolution; International Journal of Organic Evolution, 2018, 72, 2682-2696.	2.3	42
32	Use of Symbiotic Fungus by The Gall Maker Asteromyia Carbonifera to Inhibit Attack by the Parasitoid Torymus Capite. Ecology, 1982, 63, 1602-1605.	3.2	41
33	Patterns of Parasitism by Torymus capite on Hosts Distributed in Small Patches. Journal of Animal Ecology, 1983, 52, 867.	2.8	40
34	Resource Utilization Patterns in a Community of Gall-Attacking Parasitoids. Environmental Entomology, 1982, 11, 809-815.	1.4	39
35	Variable Selection on Eurosta's Gall Size, I: The Extent and Nature of Variation in Phenotypic Selection. Evolution; International Journal of Organic Evolution, 1992, 46, 1674.	2.3	38
36	Will plant vigor and tolerance be genetically correlated? Effects of intrinsic growth rate and self-limitation on regrowth. Evolutionary Ecology, 2000, 14, 331-352.	1.2	38

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37	GENETIC AND MATERNAL EFFECTS ON SEEDLING CHARACTERS OF SOLIDAGO ALTISSIMA (COMPOSITAE). American Journal of Botany, 1987, 74, 1476-1486.	1.7	37
38	The success of assisted colonization and assisted gene flow depends on phenology. Global Change Biology, 2015, 21, 3786-3799.	9.5	37
39	Direct and indirect assortative mating: a multivariate approach to plant flowering schedules. Journal of Evolutionary Biology, 2005, 18, 536-546.	1.7	36
40	The shape of selection: using alternative fitness functions to test predictions for selection on flowering time. Evolutionary Ecology, 2014, 28, 885-904.	1.2	35
41	Direct and Indirect Effects of Prior Grazing of Goldenrod upon the Performance of a Leaf Beetle. Ecology, 1995, 76, 426-436.	3.2	33
42	VARIABLE SELECTION ON EUROSTA' S GALL SIZE. II. A PATH ANALYSIS OF THE ECOLOGICAL FACTORS BEHIND SELECTION. Evolution; International Journal of Organic Evolution, 1994, 48, 734-745.	2.3	32
43	The strength of assortative mating for flowering date and its basis in individual variation in flowering schedule. Journal of Evolutionary Biology, 2014, 27, 2138-2151.	1.7	27
44	The Effect of Floral Herbivory on Male and Female Reproductive Success in Isomeris arborea. Ecology, 1999, 80, 135.	3.2	26
45	What drives selection on flowering time? An experimental manipulation of the inherent correlation between genotype and environment. Evolution; International Journal of Organic Evolution, 2015, 69, 2018-2033.	2.3	24
46	Oviposition Behavior and Response to Plant Height by Eurosta solidaginis Fitch (Diptera: Tephritidae). Annals of the Entomological Society of America, 1990, 83, 509-514.	2.5	23
47	Withinâ€plant variation in reproductive investment: consequences for selection on flowering time. Journal of Evolutionary Biology, 2015, 28, 65-79.	1.7	23
48	Hard and soft selection on phenology through seasonal shifts in the general and social environments: A study on plant emergence time. Evolution; International Journal of Organic Evolution, 2015, 69, 1361-1374.	2.3	22
49	Phenological mismatch and the effectiveness of assisted gene flow. Conservation Biology, 2017, 31, 547-558.	4.7	21
50	Variation in pollinator-mediated plant reproduction across an urbanization gradient. Oecologia, 2020, 192, 1073-1083.	2.0	21
51	Plant Genotype: A Variable Factor in Insectâ€“Plant Interactions. , 1992, , 75-111.		18
52	Can there be an escalating arms race without coevolution? Implications from a host-parasitoid simulation. Evolutionary Ecology, 1989, 3, 361-370.	1.2	17
53	Selection for pollen competitive ability in mixed-mating systems. Evolution; International Journal of Organic Evolution, 2018, 72, 2513-2536.	2.3	17
54	Stress-induced assortative mating and the evolution of stress resistance. Ecology Letters, 2004, 7, 785-793.	6.4	15

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55	Spatial scale of local adaptation and population genetic structure in a miniature succulent, Argyroderma pearsonii. New Phytologist, 2007, 174, 904-914.	7.3	15
56	The causes of selection on flowering time through male fitness in a hermaphroditic annual plant. Evolution; International Journal of Organic Evolution, 2016, 70, 111-125.	2.3	15
57	Artificial seed aging reveals the invisible fraction: Implications for evolution experiments using the resurrection approach. Evolutionary Ecology, 2019, 33, 811-824.	1.2	14
58	Variable Selection on Eurosta's Gall Size. II. A Path Analysis of the Ecological Factors Behind Selection. Evolution; International Journal of Organic Evolution, 1994, 48, 734.	2.3	13
59	On the potential strength and consequences for nonrandom gene flow caused by local adaptation in flowering time. Journal of Evolutionary Biology, 2015, 28, 699-714.	1.7	12
60	Genetic and Maternal Effects on Seedling Characters of Solidago altissima (Compositae). American Journal of Botany, 1987, 74, 1476.	1.7	12
61	GENOTYPIC VARIATION AND INTEGRATION IN HISTOLOGICAL FEATURES OF THE GOLDENROD BALL GALL. American Journal of Botany, 1989, 76, 1541-1550.	1.7	11
62	Adaptation of Coyote Brush to the Abiotic Environment and Its Effects on Susceptibility to a Gall-Making Midge. Oikos, 1999, 84, 199.	2.7	11
63	The impact of snow accumulation on a heath spider community in a sub-Arctic landscape. Polar Biology, 2013, 36, 885-894.	1.2	11
64	Comparing methods for controlled capture and quantification of pollen in Cannabis sativa. Applications in Plant Sciences, 2020, 8, e11389.	2.1	11
65	Inbreeding and outcrossing in Yucca whipplei: consequences for the reproductive success of plant and pollinator. Ecology Letters, 1998, 1, 21-24.	6.4	10
66	Herbivory tolerance and coevolution: an alternative to the arms race?. New Phytologist, 2006, 170, 423-425.	7.3	10
67	Estimating selection through male fitness: three complementary methods illuminate the nature and causes of selection on flowering time. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152635.	2.6	10
68	Host gall size predicts host quality for the parasitoidEurytoma gigantea (Hymenoptera: eurytomidae), but can the parasitoid tell?. Journal of Insect Behavior, 1993, 6, 591-602.	0.7	9
69	Temporal variation in phenotypic gender and expected functional gender within and among individuals in an annual plant. Annals of Botany, 2014, 114, 167-177.	2.9	9
70	Isolation by phenology synergizes isolation by distance across a continuous landscape. New Phytologist, 2019, 224, 1215-1228.	7.3	8
71	Genotypic Variation and Integration in Histological Features of the Goldenrod Ball Gall. American Journal of Botany, 1989, 76, 1541.	1.7	8
72	APICAL DOMINANCE ASSERTED OVER LATERAL BUDS BY THE GALL OFRHABDOPHAGA STROBILOIDES(DIPTERA: CECIDOMYIIDAE). Canadian Entomologist, 1984, 116, 1277-1279.	0.8	7

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73	Describing Flowering Schedule Shape through Multivariate Ordination. International Journal of Plant Sciences, 2014, 175, 70-79.	1.3	7
74	Simultaneous pulsed flowering in a temperate legume: causes and consequences of multimodality in the shape of floral display schedules. Journal of Ecology, 2015, 103, 316-327.	4.0	7
75	Depth Associations and Utilization Patterns in the Parasitoid Guild of Asphondylia rudbeckiaeconspicua (Diptera: Cecidomyiidae). Environmental Entomology, 1994, 23, 115-121.	1.4	6
76	Inheritance of Rapid Cycling inBrassica rapaFast Plants: Dominance That Increases with Photoperiod. International Journal of Plant Sciences, 2015, 176, 859-868.	1.3	6
77	Temporal population genetic structure in the pollen pool for flowering time: A field experiment withBrassica rapa(Brassicaceae). American Journal of Botany, 2017, 104, 1569-1580.	1.7	6
78	Parasitoids and Competition. American Naturalist, 1980, 116, 876-881.	2.1	6
79	Estimating the impact of divergent mating phenology between residents and migrants on the potential for gene flow. Ecology and Evolution, 2019, 9, 3770-3783.	1.9	4
80	Ecological and Evolutionary Stochasticity Shape Natural Selection. American Naturalist, 2020, 195, 705-716.	2.1	4
81	Bagging the lag. Nature, 2001, 409, 992-993.	27.8	2
82	EVOLUTIONARY RADIATION OF â€œSTONE PLANTSâ€•IN THE GENUS ARGYRODERMA (AIZOACEAE): UNRAVELING THE EFFECTS OF LANDSCAPE, HABITAT, AND FLOWERING TIME. Evolution; International Journal of Organic Evolution, 2006, 60, 39.	2.3	2
83	Gall insects and selection on plant vigor: can susceptibility compromise success in competition?. Arthropod-Plant Interactions, 2014, 8, 205-212.	1.1	1
84	Size, Function and Life History William A. Calder, III. Auk, 1985, 102, 434-435.	1.4	0
85	Stressed Plants and What Bugs them. Ecology, 1989, 70, 1958-1958.	3.2	0
86	Galls from the Inside Out. Ecology, 1993, 74, 1910-1911.	3.2	0
87	Ecology: Plant Parasites Victimized by a Parasitic Plant. Current Biology, 2018, 28, R877-R879.	3.9	0