Ian S Pearse

List of Publications by Year
in descending order

83 papers	3,338 citations	172457 29 h-index	168389 53 g-index
83 all docs	83 docs citations	83 times ranked	4382 citing authors

#	Article	IF	Citations
1	Mechanisms of mast seeding: resources, weather, cues, and selection. New Phytologist, 2016, 212, 546-562.	7.3	245
2	The ecological forecast horizon, and examples of its uses and determinants. Ecology Letters, 2015, 18, 597-611.	6.4	242
3	Phylogenetic and trait similarity to a native species predict herbivory on non-native oaks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18097-18102.	7.1	205
4	Development and Delivery of Species Distribution Models to Inform Decision-Making. BioScience, 2019, 69, 544-557.	4.9	170
5	Increasing phenological asynchrony between spring green-up and arrival of migratory birds. Scientific Reports, 2017, 7, 1902.	3.3	143
6	What drives masting? The phenological synchrony hypothesis. Ecology, 2015, 96, 184-192.	3.2	124
7	Predicting novel trophic interactions in a nonâ€native world. Ecology Letters, 2013, 16, 1088-1094.	6.4	123
8	GLOBAL PATTERNS OF LEAF DEFENSES IN OAK SPECIES. Evolution; International Journal of Organic Evolution, 2012, 66, 2272-2286.	2.3	116
9	Cues versus proximate drivers: testing the mechanism behind masting behavior. Oikos, 2014, 123, 179-184.	2.7	86
10	Predicting novel herbivoreâ€“plant interactions. Oikos, 2013, 122, 1554-1564.	2.7	81
11	The relationship between invader abundance and impact. Ecosphere, 2018, 9, e02415.	2.2	75
12	Similarity and Specialization of the Larval versus Adult Diet of European Butterflies and Moths. American Naturalist, 2011, 178, 372-382.	2.1	65
13	Inter-annual variation in seed production has increased over time (1900â€“2014). Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171666.	2.6	65
14	From theory to experiments for testing the proximate mechanisms of mast seeding: an agenda for an experimental ecology. Ecology Letters, 2020, 23, 210-220.	6.4	64
15	Individual resource limitation combined with populationâ€wide pollen availability drives masting in the valley oak (Quercus lobata). Journal of Ecology, 2016, 104, 637-645.	4.0	58
16	Long-Term Trends in Midwestern Milkweed Abundances and Their Relevance to Monarch Butterfly Declines. BioScience, 2017, 67, 343-356.	4.9	56
17	Generalising indirect defence and resistance of plants. Ecology Letters, 2020, 23, 1137-1152.	6.4	53
18	The role of leaf defensive traits in oaks on the preference and performance of a polyphagous herbivore, Orgyia vetusta. Ecological Entomology, 2011, 36, 635-642.	2.2	52

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19	Interplant volatile signaling in willows: revisiting the original talking trees. Oecologia, 2013, 172, 869-875.	2.0	52
20	Insect herbivores selectively suppress the <scp>HPL</scp> branch of the oxylipin pathway in host plants. Plant Journal, 2013, 73, 653-662.	5.7	52
21	Is the relationship between mastâ€seeding and weather in oaks related to their lifeâ€history or phylogeny?. Ecology, 2016, 97, 2603-2615.	3.2	47
22	Mast seeding patterns are asynchronous at a continental scale. Nature Plants, 2020, 6, 460-465.	9.3	43
23	Pollen limitation and flower abortion in a windâ€pollinated, masting tree. Ecology, 2015, 96, 587-593.	3.2	42
24	Is there tree senescence? The fecundity evidence. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	42
25	Diet mixing enhances the performance of a generalist caterpillar, Platyprepia virginalis. Ecological Entomology, 2010, 35, 92-99.	2.2	41
26	Biogeography and phylogeny of masting: do global patterns fit functional hypotheses?. New Phytologist, 2020, 227, 1557-1567.	7.3	41
27	The Importance of Forests in Bumble Bee Biology and Conservation. BioScience, 2021, 71, 1234-1248.	4.9	39
28	The ecology and evolution of synchronized reproduction in long-lived plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200369.	4.0	36
29	Variation in Plant Defense Suppresses Herbivore Performance. Current Biology, 2018, 28, 1981-1986.e2.	3.9	35
30	Climate teleconnections synchronize Picea glauca masting and fire disturbance: Evidence for a fireâ€related form of environmental prediction. Journal of Ecology, 2020, 108, 1186-1198.	4.0	35
31	Aridity drives spatiotemporal patterns of masting across the latitudinal range of a dryland conifer. Ecography, 2020, 43, 569-580.	4.5	33
32	Longâ€term surveys support declines in early season forest plants used by bumblebees. Journal of Applied Ecology, 2021, 58, 1431-1441.	4.0	32
33	Innovation in anti-herbivore defense systems during neopolypoloidy - the functional consequences of instantaneous speciation. Plant Journal, 2006, 47, 196-210.	5.7	30
34	Headspace Volatiles from 52 oak Species Advertise Induction, Species Identity, and Evolution, but not Defense. Journal of Chemical Ecology, 2013, 39, 90-100.	1.8	30
35	Drivers of specialist herbivore diversity across 10 cities. Landscape and Urban Planning, 2012, 108, 123-130.	7.5	29
36	Extinction cascades partially estimate herbivore losses in a complete Lepidopteraâ€“plant food web. Ecology, 2013, 94, 1785-1794.	3.2	29

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37	Nonâ€native plants have greater impacts because of differing perâ€capita effects and nonlinear abundanceâ€“impact curves. Ecology Letters, 2019, 22, 1214-1220.	6.4	28
38	The parasitoid community of Andricus quercuscalifornicus and its association with gall size, phenology, and location. Biodiversity and Conservation, 2011, 20, 203-216.	2.6	27
39	North American tree migration paced by climate in the West, lagging in the East. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	27
40	Structural changes within trophic levels are constrained by withinâ€family assembly rules at lower trophic levels. Ecology Letters, 2018, 21, 1221-1228.	6.4	26
41	Biochemical and ecological characterization of two peroxidase isoenzymes from the mangrove, Rhizophora mangle. Plant, Cell and Environment, 2005, 28, 612-622.	5.7	23
42	Communicative interactions involving plants: information, evolution, and ecology. Current Opinion in Plant Biology, 2016, 32, 69-76.	7.1	22
43	Complex Consequences of Herbivory and Interplant Cues in Three Annual Plants. PLoS ONE, 2012, 7, e38105.	2.5	22
44	Understanding mast seeding for conservation and land management. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200383.	4.0	21
45	Leaf drop affects herbivory in oaks. Oecologia, 2013, 173, 925-932.	2.0	20
46	Defensive Traits in Young Pine Trees Cluster into Two Divergent Syndromes Related to Early Growth Rate. PLoS ONE, 2016, 11, e0152537.	2.5	20
47	Native plant diversity increases herbivory to non-natives. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141841.	2.6	19
48	Lagged effects of early-season herbivores on valley oak fecundity. Oecologia, 2015, 178, 361-368.	2.0	19
49	MASTREE+: Timeâ€series of plant reproductive effort from six continents. Global Change Biology, 2022, 28, 3066-3082.	9.5	19
50	Tolerance and phenological avoidance of herbivory in tarweed species. Ecology, 2016, 97, 1357-1363.	3.2	18
51	Negative effects of an allelopathic invader on AM fungal plant species drive communityâ€level responses. Ecology, 2021, 102, e03201.	3.2	17
52	The phenologyâ€“substrateâ€match hypothesis explains decomposition rates of evergreen and deciduous oak leaves. Journal of Ecology, 2014, 102, 28-35.	4.0	16
53	Leaf phenology mediates provenance differences in herbivore populations on valley oaks in a common garden. Ecological Entomology, 2015, 40, 525-531.	2.2	15
54	Macroevolutionary constraints to tolerance: tradeâ€offs with drought tolerance and phenology, but not resistance. Ecology, 2017, 98, 2758-2772.	3.2	15

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55	A modeling workflow that balances automation and human intervention to inform invasive plant management decisions at multiple spatial scales. PLoS ONE, 2020, 15, e0229253.	2.5	15
56	The Evolutionary Legacy of Diversification Predicts Ecosystem Function. American Naturalist, 2016, 188, 398-410.	2.1	14
57	Entrapped carrion increases indirect plant resistance and intraâ€guild predation on a sticky tarweed. Oikos, 2018, 127, 1033-1044.	2.7	14
58	Life-History Plasticity and Water-Use Trade-Offs Associated with Drought Resistance in a Clade of California Jewelflowers. American Naturalist, 2020, 195, 691-704.	2.1	14
59	The effects of ENSO and the North American monsoon on mast seeding in two Rocky Mountain conifer species. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200378.	4.0	14
60	Modes of climate variability bridge proximate and evolutionary mechanisms of masting. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200380.	4.0	14
61	Generalist and sticky plant specialist predators suppress herbivores on a sticky plant. Arthropod-Plant Interactions, 2014, 8, 403-410.	1.1	13
62	Direct and indirect effects of a keystone engineer on a shrublandâ€prairie food web. Ecology, 2021, 102, e03195.	3.2	13
63	Alien plants versus alien herbivores: does it matter who is non-native in a novel trophic interaction?. Current Opinion in Insect Science, 2014, 2, 20-25.	4.4	11
64	Tree community shifts and Acorn Woodpecker population increases over three decades in a Californian oak woodland. Canadian Journal of Forest Research, 2015, 45, 1113-1120.	1.7	11
65	Globally, tree fecundity exceeds productivity gradients. Ecology Letters, 2022, 25, 1471-1482.	6.4	11
66	The predictability of traits and ecological interactions on 17 different crosses of hybrid oaks. Oecologia, 2012, 169, 489-497.	2.0	10
67	Radish introduction affects soil biota and has a positive impact on the growth of a native plant. Oecologia, 2014, 174, 471-478.	2.0	10
68	INHABIT: A web-based decision support tool for invasive plant species habitat visualization and assessment across the contiguous United States. PLoS ONE, 2022, 17, e0263056.	2.5	10
69	Do plantâ€“plant signals mediate herbivory consistently in multiple taxa and ecological contexts?. Journal of Plant Interactions, 2013, 8, 203-206.	2.1	9
70	Stage and Size Structure of Three Species of Oaks In Central Coastal California. MadroÃ±o, 2014, 61, 1-8.	0.4	8
71	Outâ€ofâ€sample predictions from plantâ€“insect food webs: robustness to missing and erroneous trophic interaction records. Ecological Applications, 2015, 25, 1953-1961.	3.8	8
72	Phylogenetic escape from pests reduces pesticides on some crop plants. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26849-26853.	7.1	8

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73	Associational effects of plant ontogeny on damage by a specialist insect herbivore. Oecologia, 2020, 193, 593-602.	2.0	7
74	Serotiny in California Oaks. MadroÃ±o, 2014, 61, 151-158.	0.4	6
75	Bird rookeries have different effects on different feeding guilds of herbivores and alter the feeding behavior of a common caterpillar. Arthropod-Plant Interactions, 2010, 4, 189-195.	1.1	5
76	Plants trap pollen to feed predatory arthropods as an indirect resistance against herbivory. Ecology, 2019, 100, e02867.	3.2	5
77	Population ecology and spatial synchrony in the abundance of leaf gall wasps within and among populations of valley oak (Quercus lobata). Population Ecology, 2020, 62, 220-232.	1.2	5
78	Fineâ€scale plant defence variability increases topâ€down control of an herbivore. Functional Ecology, 2021, 35, 1437-1447.	3.6	5
79	Individualâ€level differences in generalist caterpillar responses to a plantâ€“plant cue. Ecological Entomology, 2015, 40, 612-619.	2.2	4
80	Loss of branches due to winter storms could favor deciduousness in oaks. American Journal of Botany, 2021, 108, 2309-2314.	1.7	4
81	Seasonal assembly of arthropod communities on milkweeds experiencing simulated herbivory. Arthropod-Plant Interactions, 2019, 13, 99-108.	1.1	3
82	Pollen Limitation and Flower Abortion in a Wind-Pollinated, Masting Tree. Bulletin of the Ecological Society of America, 2014, 95, 462-464.	0.2	1
83	Herbivory changes biomass allocation but does not induce resistance among ramets of an invasive plant. Arthropod-Plant Interactions, 2022, 16, 297-307.	1.1	1