

AdrienneÂ Nicotra

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

9,580
citations

61857

43
h-index

40881

93
g-index

108
all docs

108
docs citations

108
times ranked

12536
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant phenotypic plasticity in a changing climate. <i>Trends in Plant Science</i> , 2010, 15, 684-692.	4.3	1,571
2	Do invasive species show higher phenotypic plasticity than native species and, if so, is it adaptive? A meta-analysis. <i>Ecology Letters</i> , 2011, 14, 419-431.	3.0	929
3	The effects of phenotypic plasticity and local adaptation on forecasts of species range shifts under climate change. <i>Ecology Letters</i> , 2014, 17, 1351-1364.	3.0	802
4	The evolution and functional significance of leaf shape in the angiosperms. <i>Functional Plant Biology</i> , 2011, 38, 535.	1.1	421
5	Biological responses to the press and pulse of climate trends and extreme events. <i>Nature Climate Change</i> , 2018, 8, 579-587.	8.1	330
6	SPATIAL HETEROGENEITY OF LIGHT AND WOODY SEEDLING REGENERATION IN TROPICAL WET FORESTS. <i>Ecology</i> , 1999, 80, 1908-1926.	1.5	306
7	How plant life-history and ecological traits relate to species rarity and commonness at varying spatial scales. <i>Austral Ecology</i> , 2002, 27, 291-310.	0.7	266
8	Trees tolerate an extreme heatwave via sustained transpirational cooling and increased leaf thermal tolerance. <i>Global Change Biology</i> , 2018, 24, 2390-2402.	4.2	242
9	A research agenda for seed trait functional ecology. <i>New Phytologist</i> , 2019, 221, 1764-1775.	3.5	218
10	The influence of leaf size and shape on leaf thermal dynamics: does theory hold up under natural conditions?. <i>Plant, Cell and Environment</i> , 2017, 40, 237-248.	2.8	189
11	Will among-population variation in seed traits improve the chance of species persistence under climate change?. <i>Global Ecology and Biogeography</i> , 2015, 24, 12-24.	2.7	183
12	The Impact of Beneficial Plant-Associated Microbes on Plant Phenotypic Plasticity. <i>Journal of Chemical Ecology</i> , 2013, 39, 826-839.	0.9	180
13	How to analyse plant phenotypic plasticity in response to a changing climate. <i>New Phytologist</i> , 2019, 222, 1235-1241.	3.5	179
14	Adaptive phenotypic plasticity and plant water use. <i>Functional Plant Biology</i> , 2010, 37, 117.	1.1	143
15	Compensation for herbivory by <i>Cucumis sativus</i> through increased photosynthetic capacity and efficiency. <i>Oecologia</i> , 2003, 134, 167-175.	0.9	139
16	EGRINs (Environmental Gene Regulatory Influence Networks) in Rice That Function in the Response to Water Deficit, High Temperature, and Agricultural Environments. <i>Plant Cell</i> , 2016, 28, 2365-2384.	3.1	139
17	Do thick leaves avoid thermal damage in critically low wind speeds?. <i>New Phytologist</i> , 2012, 194, 477-487.	3.5	132
18	Improving Conservation Outcomes with a New Paradigm for Understanding Species' Fundamental and Realized Adaptive Capacity. <i>Conservation Letters</i> , 2016, 9, 131-137.	2.8	125

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19	Aboveground interactions and productivity in mixed-species plantations of <i>Acacia mearnsii</i> and <i>Eucalyptus globulus</i> . <i>Canadian Journal of Forest Research</i> , 2004, 34, 686-694.	0.8	120
20	Assessing the components of adaptive capacity to improve conservation and management efforts under global change. <i>Conservation Biology</i> , 2015, 29, 1268-1278.	2.4	114
21	Seedling root anatomy and morphology: an examination of ecological differentiation with rainfall using phylogenetically independent contrasts. <i>Oecologia</i> , 2002, 130, 136-145.	0.9	105
22	Adaptive plasticity and epigenetic variation in response to warming in an Alpine plant. <i>Ecology and Evolution</i> , 2015, 5, 634-647.	0.8	100
23	High temperature acclimation of C ₄ photosynthesis is linked to changes in photosynthetic biochemistry. <i>Plant, Cell and Environment</i> , 2007, 30, 53-66.	2.8	97
24	Nitrogen in cell walls of sclerophyllous leaves accounts for little of the variation in photosynthetic nitrogen-use efficiency. <i>Plant, Cell and Environment</i> , 2009, 32, 259-270.	2.8	97
25	Leaf shape linked to photosynthetic rates and temperature optima in South African <i>Pelargonium</i> species. <i>Oecologia</i> , 2008, 154, 625-635.	0.9	91
26	Soil warming increases plant species richness but decreases germination from the alpine soil seed bank. <i>Global Change Biology</i> , 2013, 19, 1549-1561.	4.2	91
27	Reproductive allocation and the long-term costs of reproduction in <i>Siparuna grandiflora</i> , a dioecious neotropical shrub. <i>Journal of Ecology</i> , 1999, 87, 138-149.	1.9	90
28	Sparse evidence for selection on phenotypic plasticity in response to temperature. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180185.	1.8	88
29	Space and time dependence of temperature and freezing in evergreen leaves. <i>Functional Plant Biology</i> , 2002, 29, 1259.	1.1	78
30	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	2.4	73
31	Geographic range size, seedling ecophysiology and phenotypic plasticity in Australian <i>Acacia</i> species. <i>Journal of Biogeography</i> , 2005, 32, 341-351.	1.4	66
32	The seed germination spectrum of alpine plants: a global meta-analysis. <i>New Phytologist</i> , 2021, 229, 3573-3586.	3.5	66
33	Plant isolation reduces outcross pollen receipt in a partially self-compatible herb. <i>Journal of Ecology</i> , 2004, 92, 977-985.	1.9	65
34	The thermal tolerance of photosynthetic tissues: a global systematic review and agenda for future research. <i>New Phytologist</i> , 2021, 229, 2497-2513.	3.5	64
35	Sex ratio variation and spatial distribution of <i>Siparuna grandiflora</i> , a tropical dioecious shrub. <i>Oecologia</i> , 1998, 115, 102-113.	0.9	57
36	Effects of initial planting density on branch development in 4-year-old plantation grown <i>Eucalyptus pilularis</i> and <i>Eucalyptus cloeziana</i> trees. <i>Forest Ecology and Management</i> , 2007, 252, 41-51.	1.4	57

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37	Patterns of genotypic variation and phenotypic plasticity of light response in two tropical Piper (Piperaceae) species. American Journal of Botany, 1997, 84, 1542-1552.	0.8	56
38	Landscape genomic prediction for restoration of a Eucalyptus foundation species under climate change. ELife, 2018, 7, .	2.8	54
39	Predicting the impact of increasing temperatures on seed germination among populations of Western Australian <i>Banksia</i> (Proteaceae). Seed Science Research, 2014, 24, 195-205.	0.8	52
40	Seed germination strategies: an evolutionary trajectory independent of vegetative functional traits. Frontiers in Plant Science, 2015, 6, 731.	1.7	52
41	LEAF SHAPE EVOLUTION IN THE SOUTH AFRICAN GENUS <i>PELARGONIUM</i> (GERANIACEAE). Evolution; International Journal of Organic Evolution, 2009, 63, 479-497.	1.1	51
42	Climate warming delays and decreases seedling emergence in a Mediterranean ecosystem. Oikos, 2015, 124, 150-160.	1.2	50
43	Reproductive allocation in a gender dimorphic shrub: anomalous female investment in <i>Gynatrix pulchella</i> ?. Journal of Ecology, 2006, 94, 1261-1271.	1.9	49
44	Sexual dimorphism in reproductive allocation and water use efficiency in <i>Maireana pyramidata</i> (Chenopodiaceae), a dioecious, semi-arid shrub. Australian Journal of Botany, 2003, 51, 509.	0.3	46
45	Sexes show contrasting patterns of leaf and crown carbon gain in a dioecious rainforest shrub. American Journal of Botany, 2003, 90, 347-355.	0.8	43
46	Structural and hydraulic correlates of heterophylly in <i>Ginkgo biloba</i> . New Phytologist, 2011, 189, 459-470.	3.5	43
47	Dynamics of stomatal water relations following leaf excision. Plant, Cell and Environment, 2006, 29, 981-992.	2.8	40
48	Geographic variation and plasticity to water and nutrients in <i>Pelargonium australe</i> . New Phytologist, 2007, 176, 136-149.	3.5	39
49	Growth response following green crown pruning in plantation-grown <i>Eucalyptus pilularis</i> and <i>Eucalyptus cloeziana</i> . Canadian Journal of Forest Research, 2008, 38, 770-781.	0.8	39
50	Seeds at risk: How will a changing alpine climate affect regeneration from seeds in alpine areas?. Alpine Botany, 2015, 125, 59-68.	1.1	38
51	Spatial patterning of pigmentation in evergreen leaves in response to freezing stress. Plant, Cell and Environment, 2003, 26, 1893-1904.	2.8	36
52	Population structure and diversity in sexual and asexual populations of the pathogenic fungus <i>Melampsora lini</i> . Molecular Ecology, 2008, 17, 3401-3415.	2.0	36
53	Variation in snow cover drives differences in frost resistance in seedlings of the alpine herb <i>Aciphylla glacialis</i> . Environmental and Experimental Botany, 2014, 106, 174-181.	2.0	36
54	Sexually dimorphic growth in the dioecious tropical shrub, <i>Siparuna grandiflora</i> . Functional Ecology, 1999, 13, 322-331.	1.7	34

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55	The presence of nodules on legume root systems can alter phenotypic plasticity in response to internal nitrogen independent of nitrogen fixation. <i>Plant, Cell and Environment</i> , 2016, 39, 883-896.	2.8	33
56	Himalayan-Tibetan Plateau Uplift Drives Divergence of Polyploid Poppies: <i>Meconopsis</i> Viguier (Papaveraceae). <i>PLoS ONE</i> , 2014, 9, e99177.	1.1	32
57	One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice. , 2021, 9, coab009.		29
58	Photosynthetic response to green crown pruning in young plantation-grown <i>Eucalyptus pilularis</i> and <i>E. cloeziana</i> . <i>Forest Ecology and Management</i> , 2008, 255, 3827-3838.	1.4	25
59	Evidence of population variation in drought tolerance during seed germination in four <i>Banksia</i> (Proteaceae) species from Western Australia. <i>Australian Journal of Botany</i> , 2014, 62, 481.	0.3	25
60	Population and phylogenomic decomposition via genotyping-by-sequencing in Australian <i>Pelargonium</i> . <i>Molecular Ecology</i> , 2016, 25, 2000-2014.	2.0	25
61	Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon scan. , 2020, 8, coaa016.		25
62	High self-pollen transfer and low fruit set in buzz-pollinated <i>Dianella revoluta</i> (Phormiaceae). <i>Australian Journal of Botany</i> , 2004, 52, 185.	0.3	24
63	Phylogenetic influences on leaf trait integration in <i>Pelargonium</i> (Geraniaceae): Convergence, divergence, and historical adaptation to a rapidly changing climate. <i>American Journal of Botany</i> , 2013, 100, 1306-1321.	0.8	24
64	Effects of reduced winter duration on seed dormancy and germination in six populations of the alpine herb <i>Aciphyllia glacialis</i> (Apiaceae). , 2014, 2, cou015-cou015.		24
65	Understanding the importance of intrapopulation functional variability and phenotypic plasticity in <i>Quercus suber</i> . <i>Tree Genetics and Genomes</i> , 2015, 11, 1.	0.6	24
66	Herbivory Differentially Affects Male and Female Reproductive Traits of <i>Cucumis sativus</i> . <i>Plant Biology</i> , 2004, 6, 621-628.	1.8	23
67	Rooting Volume, Nutrient Availability, and CO ₂ -Induced Growth Enhancements in Temperate Forest Tree Seedlings. , 1996, 6, 619-627.		22
68	Intraspecific trait variation in alpine plants relates to their elevational distribution. <i>Journal of Ecology</i> , 2022, 110, 860-875.	1.9	21
69	A unique web resource for physiology, ecology and the environmental sciences: PrometheusWiki. <i>Functional Plant Biology</i> , 2010, 37, 687.	1.1	20
70	Significant phorophyte (substrate) bias is not explained by fitness benefits in three epiphytic orchid species. <i>American Journal of Botany</i> , 2011, 98, 197-206.	0.8	20
71	The host bias of three epiphytic <i>Aeridinae</i> orchid species is reflected, but not explained, by mycorrhizal fungal associations. <i>American Journal of Botany</i> , 2013, 100, 764-777.	0.8	20
72	Variation in plant functional traits across and within four species of Western Australian <i>Banksia</i> (Proteaceae) along a natural climate gradient. <i>Austral Ecology</i> , 2016, 41, 886-896.	0.7	20

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73	Temperature variability drives within-species variation in germination strategy and establishment characteristics of an alpine herb. <i>Oecologia</i> , 2019, 189, 407-419.	0.9	19
74	Genes controlling legume nodule numbers affect phenotypic plasticity responses to nitrogen in the presence and absence of rhizobia. <i>Plant, Cell and Environment</i> , 2019, 42, 1747-1757.	2.8	19
75	Repeated extreme heatwaves result in higher leaf thermal tolerances and greater safety margins. <i>New Phytologist</i> , 2021, 232, 1212-1225.	3.5	19
76	Research note: Leaf cooling curves: measuring leaf temperature in sunlight. <i>Functional Plant Biology</i> , 2006, 33, 515.	1.1	19
77	Influence of previous frost damage on tree growth and insect herbivory of <i>Eucalyptus globulus globulus</i> . <i>Austral Ecology</i> , 2001, 26, 489-499.	0.7	17
78	Changes in Whole-Tree Water Use Following Live-Crown Pruning in Young Plantation-Grown <i>Eucalyptus pilularis</i> and <i>Eucalyptus cloeziana</i> . <i>Forests</i> , 2013, 4, 106-121.	0.9	17
79	Foundations for the future: A long-term plan for Australian ecosystem science. <i>Austral Ecology</i> , 2014, 39, 739-748.	0.7	17
80	Seed mass and elevation explain variation in seed longevity of Australian alpine species. <i>Seed Science Research</i> , 2018, 28, 319-331.	0.8	16
81	Predicting species and community responses to global change using structured expert judgement: An Australian mountain ecosystems case study. <i>Global Change Biology</i> , 2021, 27, 4420-4434.	4.2	16
82	Intraspecific Competition in <i>Chenopodium album</i> Varies with Resource Availability. <i>American Midland Naturalist</i> , 1995, 134, 90.	0.2	15
83	Crown structure and vertical foliage distribution in 4-year-old plantation-grown <i>Eucalyptus pilularis</i> and <i>Eucalyptus cloeziana</i> . <i>Trees - Structure and Function</i> , 2013, 27, 555-566.	0.9	15
84	A high-throughput method for measuring critical thermal limits of leaves by chlorophyll imaging fluorescence. <i>Functional Plant Biology</i> , 2021, 48, 634.	1.1	14
85	Supporting the adaptive capacity of species through more effective knowledge exchange with conservation practitioners. <i>Evolutionary Applications</i> , 2021, 14, 1969-1979.	1.5	14
86	Phenotypic plasticity and water availability: responses of alpine herb species along an elevation gradient. <i>Climate Change Responses</i> , 2017, 4, .	2.6	13
87	The influence of site quality on timing of pruning in <i>Eucalyptus pilularis</i> and <i>Eucalyptus cloeziana</i> plantations. <i>Australian Forestry</i> , 2013, 76, 25-36.	0.3	12
88	The phenotypic response of co-occurring <i>Banksia</i> species to warming and drying. <i>Plant Ecology</i> , 2015, 216, 27-39.	0.7	11
89	Tolerance of Warmer Temperatures Does Not Confer Resilience to Heatwaves in an Alpine Herb. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	11
90	Patterns of phenotypic plasticity along a thermal gradient differ by trait type in an alpine plant. <i>Functional Ecology</i> , 2022, 36, 2412-2428.	1.7	11

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91	Effect of soil biota on growth and allocation by <i>Eucalyptus microcarpa</i> . <i>Plant and Soil</i> , 2008, 305, 145-156.	1.8	7
92	Habitat-specific responses of leaf traits to soil water conditions in species from a novel alpine swamp meadow community. , 2015, 3, cov046.		7
93	Germination at Extreme Temperatures: Implications for Alpine Shrub Encroachment. <i>Plants</i> , 2021, 10, 327.	1.6	6
94	Smoke and heat accelerate and increase germination in fire-prone temperate grassy ecosystems. <i>Ecosphere</i> , 2021, 12, .	1.0	6
95	Beware: alien invasion. Where to next for an understanding of weed ecology?. <i>New Phytologist</i> , 2012, 194, 602-605.	3.5	5
96	<i>Aciphylla glacialis</i> mortality, growth and frost resistance: a field warming experiment. <i>Australian Journal of Botany</i> , 2019, 67, 599.	0.3	5
97	Inherent conflicts between reaction norm slope and plasticity indices when comparing plasticity: a conceptual framework and empirical test. <i>Oecologia</i> , 2022, 198, 593-603.	0.9	5
98	The plant detectives: innovative undergraduate teaching to inspire the next generation of plant biologists. <i>Frontiers in Plant Science</i> , 2015, 6, 729.	1.7	4
99	Extent of Solar Tracking Differs between Two Co-occurring Congeneric Geophytes That Differ in Leaf Shape. <i>International Journal of Plant Sciences</i> , 2018, 179, 162-173.	0.6	4
100	Differences in seedling water-stress response of two co-occurring <i>Banksia</i> species. <i>Australian Journal of Botany</i> , 2015, 63, 647.	0.3	2
101	Predicting effects of warming requires a whole-of-life cycle perspective: a case study in the alpine herb <i>Oreomyrrhis eriopoda</i> . , 2021, 9, coab023.		2
102	Decoupling the effects of parental and offspring warming on seed and seedling traits. <i>Alpine Botany</i> , 2021, 131, 105-115.	1.1	2
103	PrometheusWiki: online protocols gaining momentum. <i>Functional Plant Biology</i> , 2011, 38, iii.	1.1	2
104	Research-based learning: Designing the course behind the research. , 2017, , .		2