

Sally A Power

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

5,381
citations

101496

36
h-index

98753

67
g-index

129
all docs

129
docs citations

129
times ranked

8446
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
2	Impacts of atmospheric nitrogen deposition: responses of multiple plant and soil parameters across contrasting ecosystems in long-term field experiments. <i>Global Change Biology</i> , 2012, 18, 1197-1215.	4.2	340
3	Drought consistently alters the composition of soil fungal and bacterial communities in grasslands from two continents. <i>Global Change Biology</i> , 2018, 24, 2818-2827.	4.2	221
4	The fate of carbon in a mature forest under carbon dioxide enrichment. <i>Nature</i> , 2020, 580, 227-231.	13.7	218
5	Responses of herbaceous plants to urban air pollution: Effects on growth, phenology and leaf surface characteristics. <i>Environmental Pollution</i> , 2009, 157, 1279-1286.	3.7	163
6	Plant diversity drives soil microbial biomass carbon in grasslands irrespective of global environmental change factors. <i>Global Change Biology</i> , 2015, 21, 4076-4085.	4.2	134
7	A global comparison of grassland biomass responses to CO ₂ and nitrogen enrichment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2047-2056.	1.8	125
8	Nitrogen Deposition Reduces Plant Diversity and Alters Ecosystem Functioning: Field-Scale Evidence from a Nationwide Survey of UK Heathlands. <i>PLoS ONE</i> , 2013, 8, e59031.	1.1	93
9	Stomatal and non-stomatal limitations of photosynthesis for four tree species under drought: A comparison of model formulations. <i>Agricultural and Forest Meteorology</i> , 2017, 247, 454-466.	1.9	91
10	The Role of Nitrogen Deposition in Widespread Plant Community Change Across Semi-natural Habitats. <i>Ecosystems</i> , 2014, 17, 864-877.	1.6	86
11	Using models to guide field experiments: <i>a priori</i> predictions for the CO ₂ response of a nutrient- and water-limited native Eucalypt woodland. <i>Global Change Biology</i> , 2016, 22, 2834-2851.	4.2	77
12	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	5.8	75
13	Effects of nitrogen addition on the stress sensitivity of <i>Calluna vulgaris</i> . <i>New Phytologist</i> , 1998, 138, 663-673.	3.5	73
14	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	2.4	73
15	Impacts and fate of experimentally enhanced nitrogen deposition on a British lowland heath. <i>Environmental Pollution</i> , 1998, 102, 27-34.	3.7	71
16	Ecosystem recovery: heathland response to a reduction in nitrogen deposition. <i>Global Change Biology</i> , 2006, 12, 1241-1252.	4.2	69
17	Effects of herbicide spray drift and fertilizer overspread on selected species of woodland ground flora: comparison between short-term and long-term impact assessments and field surveys. <i>Journal of Applied Ecology</i> , 2007, 44, 374-384.	1.9	66
18	N:P Ratio and the Nature of Nutrient Limitation in <i>Calluna</i> -Dominated Heathlands. <i>Ecosystems</i> , 2010, 13, 317-327.	1.6	66

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19	Effects of fertilizer, fungal endophytes and plant cultivar on the performance of insect herbivores and their natural enemies. <i>Functional Ecology</i> , 2007, 21, 107.	1.7	62
20	Plant Functional Group Composition Modifies the Effects of Precipitation Change on Grassland Ecosystem Function. <i>PLoS ONE</i> , 2013, 8, e57027.	1.1	62
21	Effects of within-tree flowering asynchrony on the dynamics of seed and wasp production in an Australian fig species. <i>Journal of Biogeography</i> , 1996, 23, 487-493.	1.4	60
22	Effects of vehicle exhaust emissions on urban wild plant species. <i>Environmental Pollution</i> , 2011, 159, 1984-1990.	3.7	59
23	Experimentally altered rainfall regimes and host root traits affect grassland arbuscular mycorrhizal fungal communities. <i>Molecular Ecology</i> , 2018, 27, 2152-2163.	2.0	58
24	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	5.8	57
25	Effects of habitat management on heathland response to atmospheric nitrogen deposition. <i>Biological Conservation</i> , 2004, 120, 41-52.	1.9	55
26	Elevated carbon dioxide increases soil nitrogen and phosphorus availability in a phosphorus-limited <i>Eucalyptus</i> woodland. <i>Global Change Biology</i> , 2016, 22, 1628-1643.	4.2	55
27	Modelling the impacts of atmospheric nitrogen deposition on <i>Calluna</i> -dominated ecosystems in the UK. <i>Journal of Applied Ecology</i> , 2004, 41, 897-909.	1.9	54
28	Open Air Laboratories (OPAL): A community-driven research programme. <i>Environmental Pollution</i> , 2011, 159, 2203-2210.	3.7	52
29	Ecosystem type and resource quality are more important than global change drivers in regulating early stages of litter decomposition. <i>Soil Biology and Biochemistry</i> , 2019, 129, 144-152.	4.2	52
30	Trait-based classification and manipulation of plant functional groups for biodiversity-ecosystem function experiments. <i>Journal of Vegetation Science</i> , 2014, 25, 248-261.	1.1	48
31	The effects of air pollution on urban ecosystems and agriculture. <i>International Journal of Sustainable Development and World Ecology</i> , 2011, 18, 226-235.	3.2	47
32	Altered Precipitation Impacts on Above- and Below-Ground Grassland Invertebrates: Summer Drought Leads to Outbreaks in Spring. <i>Frontiers in Plant Science</i> , 2016, 7, 1468.	1.7	41
33	Environmental myopia: a diagnosis and a remedy. <i>Trends in Ecology and Evolution</i> , 2010, 25, 556-561.	4.2	40
34	Effects of roads on adjacent plant community composition and ecosystem function: An example from three calcareous ecosystems. <i>Environmental Pollution</i> , 2012, 163, 273-280.	3.7	40
35	Rhizosphere-driven increase in nitrogen and phosphorus availability under elevated atmospheric CO ₂ in a mature <i>Eucalyptus</i> woodland. <i>Plant and Soil</i> , 2017, 416, 283-295.	1.8	40
36	Functional adaptations and trait plasticity of urban trees along a climatic gradient. <i>Urban Forestry and Urban Greening</i> , 2020, 54, 126771.	2.3	39

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37	Assessing community and ecosystem sensitivity to climate change “ toward a more comparative approach. <i>Journal of Vegetation Science</i> , 2017, 28, 235-237.	1.1	38
38	Effects of soil cadmium on <i>Pinus sylvestris</i> L. seedlings. <i>Plant and Soil</i> , 2003, 257, 443-449.	1.8	37
39	Temporal Trends in Twig Growth of <i>Fagus sylvatica</i> L. and their Relationships with Environmental Factors. <i>Forestry</i> , 1994, 67, 13-30.	1.2	36
40	DRI-Grass: A New Experimental Platform for Addressing Grassland Ecosystem Responses to Future Precipitation Scenarios in South-East Australia. <i>Frontiers in Plant Science</i> , 2016, 7, 1373.	1.7	36
41	Modelling relationships between lichen bioindicators, air quality and climate on a national scale: Results from the UK OPAL air survey. <i>Environmental Pollution</i> , 2013, 182, 437-447.	3.7	35
42	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	5.8	35
43	Responses of fen and fen meadow communities to ozone. <i>New Phytologist</i> , 2002, 156, 399-408.	3.5	34
44	Long-term nitrogen additions increase likelihood of climate stress and affect recovery from wildfire in a lowland heath. <i>Global Change Biology</i> , 2012, 18, 2824-2837.	4.2	34
45	Shifts in microbial communities do not explain the response of grassland ecosystem function to plant functional composition and rainfall change. <i>Soil Biology and Biochemistry</i> , 2016, 92, 199-210.	4.2	34
46	Temporal dynamics of mycorrhizal fungal communities and co-associations with grassland plant communities following experimental manipulation of rainfall. <i>Journal of Ecology</i> , 2020, 108, 515-527.	1.9	32
47	Long term effects of enhanced nitrogen deposition on a lowland dry heath in southern Britain. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 1701-1706.	1.1	31
48	Long-Term Effects of Ammonium Sulphate on <i>Calluna vulgaris</i> . <i>Journal of Applied Ecology</i> , 1997, 34, 208.	1.9	29
49	Evolution of a complex coevolved trait: active pollination in a genus of fig wasps. <i>Journal of Evolutionary Biology</i> , 2004, 17, 238-246.	0.8	29
50	Relationships between lichen community composition and concentrations of NO ₂ and NH ₃ . <i>Environmental Pollution</i> , 2010, 158, 2553-2560.	3.7	29
51	Habitat Management: A Tool to Modify Ecosystem Impacts of Nitrogen Deposition?. <i>Scientific World Journal</i> , The, 2001, 1, 714-721.	0.8	28
52	Soil organic carbon and nitrogen pools are increased by mixed grass and legume cover crops in vineyard agroecosystems: Detecting short-term management effects using infrared spectroscopy. <i>Geoderma</i> , 2020, 379, 114619.	2.3	28
53	Use of <i>Calluna vulgaris</i> to detect signals of nitrogen deposition across an “urban” rural gradient. <i>Atmospheric Environment</i> , 2010, 44, 1772-1780.	1.9	27
54	Field-scale evaluation of effects of nitrogen deposition on the functioning of heathland ecosystems. <i>Journal of Ecology</i> , 2012, 100, 331-342.	1.9	27

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55	Microbial processing of plant remains is coâ€limited by multiple nutrients in global grasslands. <i>Global Change Biology</i> , 2020, 26, 4572-4582.	4.2	27
56	Parasites and mutualism function: measuring enemyâ€free space in a figâ€pollinator symbiosis. <i>Oikos</i> , 2012, 121, 1833-1839.	1.2	26
57	Links between soil microbial communities, functioning, and plant nutrition under altered rainfall in Australian grassland. <i>Ecological Monographs</i> , 2020, 90, e01424.	2.4	26
58	Elevated CO_2 concentrations reduce C₄ cover and decrease diversity of understorey plant community in a <i>Eucalyptus</i> woodland. <i>Journal of Ecology</i> , 2018, 106, 1483-1494.	1.9	25
59	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	4.2	25
60	Effects of ozone on calcareous grassland communities. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 1527-1532.	1.1	24
61	Quantifying local traffic contributions to NO2 and NH3 concentrations in natural habitats. <i>Environmental Pollution</i> , 2009, 157, 2845-2852.	3.7	24
62	Plant and arthropod community sensitivity to rainfall manipulation but not nitrogen enrichment in a successional grassland ecosystem. <i>Oecologia</i> , 2014, 176, 1173-1185.	0.9	24
63	Biogeography of arbuscular mycorrhizal fungal spore traits along an aridity gradient, and responses to experimental rainfall manipulation. <i>Fungal Ecology</i> , 2020, 46, 100899.	0.7	23
64	A Survey of the Health of <i>Fagus sylvatica</i> in Southern Britain. <i>Journal of Applied Ecology</i> , 1993, 30, 295.	1.9	20
65	Nutrient relations and root mycorrhizal status of healthy and declining beech (<i>Fagus sylvatica</i> L.) in Southern Britain. <i>Water, Air, and Soil Pollution</i> , 1996, 86, 317-333.	1.1	20
66	Fatal fighting in fig wasps â€ GBH in time and space. <i>Trends in Ecology and Evolution</i> , 1999, 14, 257-259.	4.2	18
67	Species origin affects the rate of response to interâ€annual growing season precipitation and nutrient addition in four Australian native grasslands. <i>Journal of Vegetation Science</i> , 2016, 27, 1164-1176.	1.1	18
68	Nutrients and herbivores impact grassland stability across spatial scales through different pathways. <i>Global Change Biology</i> , 2022, 28, 2678-2688.	4.2	18
69	Assessing the vulnerability of Australiaâ€™s urban forests to climate extremes. <i>Plants People Planet</i> , 2019, 1, 387-397.	1.6	17
70	Allometric Estimates of Aboveground Biomass Using Cover and Height Are Improved by Increasing Specificity of Plant Functional Groups in Eastern Australian Rangelands. <i>Rangeland Ecology and Management</i> , 2020, 73, 375-383.	1.1	17
71	Direct and indirect effects of roads and road vehicles on the plant community composition of calcareous grasslands. <i>Environmental Pollution</i> , 2013, 176, 106-113.	3.7	16
72	Reducing rainfall amount has a greater negative effect on the productivity of grassland plant species than reducing rainfall frequency. <i>Functional Plant Biology</i> , 2016, 43, 380.	1.1	16

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73	Effects of elevated CO ₂ on fine root biomass are reduced by aridity but enhanced by soil nitrogen: A global assessment. <i>Scientific Reports</i> , 2017, 7, 15355.	1.6	16
74	Ecosystem functions are resistant to extreme changes to rainfall regimes in a mesotrophic grassland. <i>Plant and Soil</i> , 2014, 381, 351-365.	1.8	15
75	Effects of competition and herbivory over woody seedling growth in a temperate woodland trump the effects of elevated CO ₂ . <i>Oecologia</i> , 2018, 187, 811-823.	0.9	15
76	Climate warming negates arbuscular mycorrhizal fungal reductions in soil phosphorus leaching with tall fescue but not lucerne. <i>Soil Biology and Biochemistry</i> , 2021, 152, 108075.	4.2	15
77	Effects of ozone on crops in north-west Pakistan. <i>Environmental Pollution</i> , 2013, 174, 244-249.	3.7	14
78	Temporal rarity is a better predictor of local extinction risk than spatial rarity. <i>Ecology</i> , 2021, 102, e03504.	1.5	14
79	Contrasting heat tolerance of urban trees to extreme temperatures during heatwaves. <i>Urban Forestry and Urban Greening</i> , 2021, 66, 127387.	2.3	14
80	Recent trends in beech tree health in southern Britain and the influence of soil type. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 1293-1298.	1.1	13
81	Effects of host plant exposure to cadmium on mycorrhizal infection and soluble carbohydrate levels of <i>Pinus sylvestris</i> seedlings. <i>Environmental Pollution</i> , 2004, 131, 287-294.	3.7	13
82	Nutrient addition shifts plant community composition towards earlier flowering species in some prairie ecoregions in the U.S. Central Plains. <i>PLoS ONE</i> , 2017, 12, e0178440.	1.1	13
83	Assessing climate risk to support urban forests in a changing climate. <i>Plants People Planet</i> , 2022, 4, 201-213.	1.6	13
84	Why lichens are bad biomonitors of ozone pollution?. <i>Ecological Indicators</i> , 2013, 34, 391-397.	2.6	12
85	Drought and phosphorus affect productivity of a mesic grassland via shifts in root traits of dominant species. <i>Plant and Soil</i> , 2019, 444, 457-473.	1.8	12
86	Decoupling of nutrient cycles in a <i>Eucalyptus</i> woodland under elevated CO ₂ . <i>Journal of Ecology</i> , 2019, 107, 2532-2540.	1.9	12
87	Drought and warming alter gross primary production allocation and reduce productivity in a widespread pasture grass. <i>Plant, Cell and Environment</i> , 2022, 45, 2271-2291.	2.8	12
88	Linking Field Experiments to Long-Term Simulation of Impacts of Nitrogen Deposition on Heathlands and Moorlands. <i>Water, Air and Soil Pollution</i> , 2004, 4, 259-267.	0.8	11
89	Effects of cadmium on growth and glucose utilisation of ectomycorrhizal fungi in vitro. <i>Mycorrhiza</i> , 2003, 13, 223-226.	1.3	9
90	The impact of tropospheric ozone pollution on trial plot winter wheat yields in Great Britain – An econometric approach. <i>Environmental Pollution</i> , 2010, 158, 1948-1954.	3.7	9

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91	How does N deposition affect belowground heathland recovery following wildfire?. <i>Soil Biology and Biochemistry</i> , 2013, 57, 775-783.	4.2	9
92	Variability of arbuscular mycorrhizal fungal communities within the root systems of individual plants is high and influenced by host species and root phosphorus. <i>Pedobiologia</i> , 2021, 84, 150691.	0.5	9
93	Seasonal effects of altered precipitation regimes on ecosystem-level CO ₂ fluxes and their drivers in a grassland from Eastern Australia. <i>Plant and Soil</i> , 2021, 460, 435-451.	1.8	9
94	Co-flowering plants support diverse pollinator populations and facilitate pollinator visitation to sweet cherry crops. <i>Basic and Applied Ecology</i> , 2022, 63, 36-48.	1.2	9
95	Response of <i>Pinus Sylvestris</i> Seedlings to Cadmium and Mycorrhizal Colonisation. <i>Water, Air, and Soil Pollution</i> , 2004, 155, 189-203.	1.1	8
96	Warming Reduces Net Carbon Gain and Productivity in <i>Medicago sativa</i> L. and <i>Festuca arundinacea</i> . <i>Agronomy</i> , 2020, 10, 1601.	1.3	8
97	High-throughput, image-based phenotyping reveals nutrient-dependent growth facilitation in a grass-legume mixture. <i>PLoS ONE</i> , 2020, 15, e0239673.	1.1	8
98	Opposing community assembly patterns for dominant and nondominant plant species in herbaceous ecosystems globally. <i>Ecology and Evolution</i> , 2021, 11, 17744-17761.	0.8	8
99	Pastures and Climate Extremes: Impacts of Cool Season Warming and Drought on the Productivity of Key Pasture Species in a Field Experiment. <i>Frontiers in Plant Science</i> , 2022, 13, 836968.	1.7	8
100	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2003, 145, 253-266.	1.1	7
101	Inter- and Intra-specific Differences in the Response of Chinese Leafy Vegetables to Ozone. <i>Water, Air, and Soil Pollution</i> , 2011, 216, 451-462.	1.1	7
102	Functional Relationships with N Deposition Differ According to Stand Maturity in <i>Calluna</i> -Dominated Heathland. <i>Ambio</i> , 2015, 44, 131-141.	2.8	7
103	Twoâ€™s company, threeâ€™s a crowd: co-occurring pollinators and parasite species in <i>Breynia oblongifolia</i> (Phyllanthaceae). <i>BMC Evolutionary Biology</i> , 2018, 18, 193.	3.2	7
104	Water availability drives fine root dynamics in a <i>Eucalyptus</i> woodland under elevated atmospheric CO ₂ concentration. <i>Functional Ecology</i> , 2020, 34, 2389-2402.	1.7	7
105	Changes in plant species abundance alter the multifunctionality and functional space of heathland ecosystems. <i>New Phytologist</i> , 2021, 232, 1238-1249.	3.5	7
106	Root trait shifts towards an avoidance strategy promote productivity and recovery in C ₃ and C ₄ pasture grasses under drought. <i>Functional Ecology</i> , 2022, 36, 1754-1771.	1.7	7
107	What shapes plant and animal diversity on urban golf courses?. <i>Urban Ecosystems</i> , 2018, 21, 565-576.	1.1	5
108	A non-pollinating moth inflicts higher seed predation than two co-pollinators in an obligate pollination mutualism. <i>Ecological Entomology</i> , 2019, 44, 780-791.	1.1	5

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109	Spatial distribution of fine root biomass in a remnant <i>Eucalyptus tereticornis</i> woodland in Eastern Australia. <i>Plant Ecology</i> , 2020, 221, 55-62.	0.7	5
110	Short-term drought is a stronger driver of plant morphology and nutritional composition than warming in two common pasture species. <i>Journal of Agronomy and Crop Science</i> , 2022, 208, 841-852.	1.7	5
111	Ecological stoichiometry and fungal community turnover reveal variation among mycorrhizal partners in their responses to warming and drought. <i>Molecular Ecology</i> , 2023, 32, 229-243.	2.0	4
112	Plant functional traits affect competitive vigor of pasture grasses during drought and following recovery. <i>Ecosphere</i> , 2022, 13, .	1.0	4
113	Drought negates growth stimulation due to root herbivory in pasture grasses. <i>Oecologia</i> , 2018, 188, 777-789.	0.9	3
114	No CO ₂ fertilization effect on plant growth despite enhanced rhizosphere enzyme activity in a low phosphorus soil. <i>Plant and Soil</i> , 2022, 471, 359-374.	1.8	3
115	Spatial homogenization of understorey plant communities under eCO ₂ in a mature <i>Eucalyptus</i> woodland. <i>Journal of Ecology</i> , 2021, 109, 1386-1395.	1.9	2
116	Understorey plant community assemblage of Australian <i>Eucalyptus</i> woodlands under elevated CO ₂ is modulated by water and phosphorus availability. <i>Journal of Plant Ecology</i> , 2021, 14, 478-490.	1.2	2
117	Staying in touch: how highly specialised moth pollinators track host plant phenology in unpredictable climates. <i>Bmc Ecology and Evolution</i> , 2021, 21, 161.	0.7	2
118	Near infrared spectroscopy calibration strategies to predict multiple nutritional parameters of pasture species from different functional groups. <i>Journal of Near Infrared Spectroscopy</i> , 2022, 30, 254-263.	0.8	2
119	Arbuscular mycorrhizal fungal-mediated reductions in N ₂ O emissions were not impacted by experimental warming for two common pasture species. <i>Pedobiologia</i> , 2021, 87-88, 150744.	0.5	1
120	Altered precipitation and root herbivory affect the productivity and composition of a mesic grassland. <i>Bmc Ecology and Evolution</i> , 2021, 21, 145.	0.7	0