

Sharon A Robinson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

7,006
citations

42
h-index

82
g-index

129
ext. papers

8,507
ext. citations

6.3
avg, IF

5.79
L-index

#	Paper	IF	Citations
120	Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being. <i>Science</i> , 2017 , 355,	33.3	1215
119	Antarctic climate change and the environment: an update. <i>Polar Record</i> , 2014 , 50, 237-259	0.5	306
118	Effects of solar ultraviolet radiation on terrestrial ecosystems. Patterns, mechanisms, and interactions with climate change. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 226-41	4.2	277
117	The role of glutamate dehydrogenase in plant nitrogen metabolism. <i>Plant Physiology</i> , 1991 , 95, 509-16	6.6	257
116	Genome of the long-living sacred lotus (<i>Nelumbo nucifera</i> Gaertn.). <i>Genome Biology</i> , 2013 , 14, R41	18.3	241
115	Solar ultraviolet radiation in a changing climate. <i>Nature Climate Change</i> , 2014 , 4, 434-441	21.4	221
114	The spatial structure of Antarctic biodiversity. <i>Ecological Monographs</i> , 2014 , 84, 203-244	9	203
113	Living on the edge of plants and global change in continental and maritime Antarctica. <i>Global Change Biology</i> , 2003 , 9, 1681-1717	11.4	166
112	Using an Unmanned Aerial Vehicle (UAV) to capture micro-topography of Antarctic moss beds. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014 , 27, 53-62	7.3	163
111	Antarctic climate change and the environment. <i>Antarctic Science</i> , 2009 , 21, 541-563	1.7	148
110	Concepts of plant biotic stress. Some insights into the stress physiology of virus-infected plants, from the perspective of photosynthesis. <i>Physiologia Plantarum</i> , 1997 , 100, 203-213	4.6	134
109	Electron Partitioning between the Cytochrome and Alternative Pathways in Plant Mitochondria. <i>Plant Physiology</i> , 1995 , 109, 829-837	6.6	131
108	Spatial Co-Registration of Ultra-High Resolution Visible, Multispectral and Thermal Images Acquired with a Micro-UAV over Antarctic Moss Beds. <i>Remote Sensing</i> , 2014 , 6, 4003-4024	5	126
107	Photosystem II Regulation and Dynamics of the Chloroplast D1 Protein in Arabidopsis Leaves during Photosynthesis and Photoinhibition. <i>Plant Physiology</i> , 1995 , 107, 943-952	6.6	125
106	Solar ultraviolet radiation and ozone depletion-driven climate change: effects on terrestrial ecosystems. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 88-107	4.2	123
105	Responses of plants in polar regions to UVB exposure: a meta-analysis. <i>Global Change Biology</i> , 2009 , 15, 2574-2589	11.4	123
104	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 127-179	4.2	105

103	Regulation of glutamate dehydrogenase activity in relation to carbon limitation and protein catabolism in carrot cell suspension cultures. <i>Plant Physiology</i> , 1992 , 98, 1190-5	6.6	104
102	Measurements of the Engagement of Cyanide-Resistant Respiration in the Crassulacean Acid Metabolism Plant <i>Kalanchoe daigremontiana</i> with the Use of On-Line Oxygen Isotope Discrimination. <i>Plant Physiology</i> , 1992 , 100, 1087-91	6.6	94
101	The Regulation of Electron Partitioning between the Cytochrome and Alternative Pathways in Soybean Cotyledon and Root Mitochondria. <i>Plant Physiology</i> , 1997 , 113, 903-911	6.6	81
100	Cell wall-bound ultraviolet-screening compounds explain the high ultraviolet tolerance of the Antarctic moss, <i>Ceratodon purpureus</i> . <i>New Phytologist</i> , 2008 , 179, 776-783	9.8	81
99	Linkages between stratospheric ozone, UV radiation and climate change and their implications for terrestrial ecosystems. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 681-716	4.2	77
98	Effects of light on respiration and oxygen isotope fractionation in soybean cotyledons. <i>Plant, Cell and Environment</i> , 2000 , 23, 983-989	8.4	73
97	Extending Fluspect to simulate xanthophyll driven leaf reflectance dynamics. <i>Remote Sensing of Environment</i> , 2018 , 211, 345-356	13.2	71
96	Surface reflectance properties of Antarctic moss and their relationship to plant species, pigment composition and photosynthetic function. <i>Plant, Cell and Environment</i> , 2002 , 25, 1239-1250	8.4	71
95	Impact of changes in natural ultraviolet radiation on pigment composition, physiological and morphological characteristics of the Antarctic moss, <i>Grimmia antarctici</i> . <i>Global Change Biology</i> , 2005 , 11, 476-489	11.4	68
94	Wax as a Mechanism for Protection against Photoinhibition [A Study of <i>Cotyledon orbiculata</i> . <i>Botanica Acta</i> , 1993 , 106, 307-312		68
93	The interactive effects of stratospheric ozone depletion, UV radiation, and climate change on aquatic ecosystems. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 717-746	4.2	66
92	Internal and external photoprotection in developing leaves of the CAM plant <i>Cotyledon orbiculata</i> . <i>Plant, Cell and Environment</i> , 1997 , 20, 617-624	8.4	65
91	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , 2019 , 2, 569-579	22.1	61
90	Some like it wet - biological characteristics underpinning tolerance of extreme water stress events in Antarctic bryophytes. <i>Functional Plant Biology</i> , 2006 , 33, 443-455	2.7	60
89	Contribution of the alternative pathway to respiration during thermogenesis in flowers of the sacred lotus. <i>Plant Physiology</i> , 2006 , 140, 1367-73	6.6	60
88	Not just about sunburn--the ozone hole's profound effect on climate has significant implications for Southern Hemisphere ecosystems. <i>Global Change Biology</i> , 2015 , 21, 515-27	11.4	55
87	Phylloxera-infested grapevines have reduced chlorophyll and increased photoprotective pigment content - can leaf pigment composition aid pest detection?. <i>Functional Plant Biology</i> , 2006 , 33, 507-514	2.7	55
86	Climate change manipulations show Antarctic flora is more strongly affected by elevated nutrients than water. <i>Global Change Biology</i> , 2006 , 12, 1800-1812	11.4	55

85	The Enzymology and Metabolism of Glutamine, Glutamate, and Asparagine 1990 , 121-159		55
84	Rapid change in East Antarctic terrestrial vegetation in response to regional drying. <i>Nature Climate Change</i> , 2018 , 8, 879-884	21.4	53
83	Unmanned aircraft system advances health mapping of fragile polar vegetation. <i>Methods in Ecology and Evolution</i> , 2017 , 8, 1842-1857	7.7	47
82	Ultraviolet B screening potential is higher in two cosmopolitan moss species than in a co-occurring Antarctic endemic moss: implications of continuing ozone depletion. <i>Global Change Biology</i> , 2006 , 12, 2282-2296	11.4	46
81	Radiocarbon bomb spike reveals biological effects of Antarctic climate change. <i>Global Change Biology</i> , 2012 , 18, 301-310	11.4	44
80	Phytoremediation of hydrocarbon contaminants in subantarctic soils: an effective management option. <i>Journal of Environmental Management</i> , 2014 , 142, 60-9	7.9	43
79	Combating ecosystem collapse from the tropics to the Antarctic. <i>Global Change Biology</i> , 2021 , 27, 1692-1703	17.0	43
78	Antarctic Moss Biflavonoids Show High Antioxidant and Ultraviolet-Screening Activity. <i>Journal of Natural Products</i> , 2017 , 80, 2224-2231	4.9	40
77	Evidence for deamination by glutamate dehydrogenase in higher plants: Commentary. <i>Canadian Journal of Botany</i> , 1995 , 73, 1112-1115		40
76	Synchronicity of thermogenic activity, alternative pathway respiratory flux, AOX protein content, and carbohydrates in receptacle tissues of sacred lotus during floral development. <i>Journal of Experimental Botany</i> , 2008 , 59, 705-14	7	39
75	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2015. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 141-74	4.2	37
74	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 13-27	4.2	37
73	Two cys or not two cys? That is the question; alternative oxidase in the thermogenic plant sacred Lotus. <i>Plant Physiology</i> , 2009 , 150, 987-95	6.6	37
72	Accumulation of DNA damage in Antarctic mosses: correlations with ultraviolet-B radiation, temperature and turf water content vary among species. <i>Global Change Biology</i> , 2009 , 15, 319-329	11.4	37
71	Evidence That Glutamate Dehydrogenase Plays a Role in the Oxidative Deamination of Glutamate in Seedlings of <i>Zea mays</i> . <i>Functional Plant Biology</i> , 1995 , 22, 805	2.7	37
70	Antarctic moss stress assessment based on chlorophyll content and leaf density retrieved from imaging spectroscopy data. <i>New Phytologist</i> , 2015 , 208, 608-24	9.8	36
69	Responses of Rainforest Understorey Plants to Excess Light during Sunflecks. <i>Functional Plant Biology</i> , 1997 , 24, 17	2.7	36
68	Beyond Sham and Cyanide: Opportunities for Studying the Alternative Oxidase in Plant Respiration Using Oxygen Isotope Discrimination.. <i>Functional Plant Biology</i> , 1995 , 22, 487	2.7	36

67	Canopy conundrums: building on the Biosphere 2 experience to scale measurements of inner and outer canopy photoprotection from the leaf to the landscape. <i>Functional Plant Biology</i> , 2012 , 39, 1-24	2.7	35
66	The Application of the Oxygen-Isotope Technique to Assess Respiratory Pathway Partitioning 2005 , 31-42		35
65	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 1-67	4.2	34
64	Desiccation protects two Antarctic mosses from ultraviolet-B induced DNA damage. <i>Functional Plant Biology</i> , 2009 , 36, 214-221	2.7	33
63	Comparison of solvent regimes for the extraction of photosynthetic pigments from leaves of higher plants. <i>Functional Plant Biology</i> , 2004 , 31, 195-202	2.7	32
62	Relative functional and optical absorption cross-sections of PSII and other photosynthetic parameters monitored in situ, at a distance with a time resolution of a few seconds, using a prototype light induced fluorescence transient (LIFT) device. <i>Functional Plant Biology</i> , 2017 , 44, 985-1006	2.7	30
61	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2016. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 107-145	4.2	29
60	From ecophysiology to phenomics: some implications of photoprotection and shade-sun acclimation in situ for dynamics of thylakoids in vitro. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 3503-14	5.8	28
59	Regulation of Respiration In Vivo 2005 , 1-15		26
58	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. <i>Photochemical and Photobiological Sciences</i> , 2020 , 19, 542-584	4.2	24
57	In the heat of the night--alternative pathway respiration drives thermogenesis in <i>Philodendron bipinnatifidum</i> . <i>New Phytologist</i> , 2011 , 189, 1013-1026	9.8	24
56	The 2019/2020 summer of Antarctic heatwaves. <i>Global Change Biology</i> , 2020 , 26, 3178-3180	11.4	24
55	Assessment of Antarctic moss health from multi-sensor UAS imagery with Random Forest Modelling. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018 , 68, 168-179	7.3	23
54	Bryophyte species composition over moisture gradients in the Windmill Islands, East Antarctica: development of a baseline for monitoring climate change impacts. <i>Biodiversity</i> , 2012 , 13, 257-264	0.7	22
53	Response of <i>Tradescantia albiflora</i> to growth irradiance: Change versus changeability. <i>Photosynthesis Research</i> , 2001 , 67, 103-12	3.7	22
52	Dominating the Antarctic Environment: Bryophytes in a Time of Change. <i>Advances in Photosynthesis and Respiration</i> , 2014 , 309-324	1.7	22
51	Sun-safe Bryophytes: Photoprotection from Excess and Damaging Solar Radiation. <i>Advances in Photosynthesis and Respiration</i> , 2014 , 113-130	1.7	22
50	Moving beyond presence and absence when examining changes in species distributions. <i>Global Change Biology</i> , 2017 , 23, 2929-2940	11.4	21

49	Moss $\delta^{13}C$: an accurate proxy for past water environments in polar regions. <i>Global Change Biology</i> , 2015 , 21, 2454-64	11.4	20
48	Do Daily and Seasonal Trends in Leaf Solar Induced Fluorescence Reflect Changes in Photosynthesis, Growth or Light Exposure?. <i>Remote Sensing</i> , 2017 , 9, 604	5	19
47	Desiccation tolerance of three moss species from continental Antarctica. <i>Functional Plant Biology</i> , 2000 , 27, 379	2.7	19
46	Genetic structure of East Antarctic populations of the moss <i>Ceratodon purpureus</i> . <i>Antarctic Science</i> , 2009 , 21, 51-58	1.7	18
45	Mechanisms of thermoregulation in plants. <i>Plant Signaling and Behavior</i> , 2008 , 3, 595-7	2.5	18
44	Impact of hydrocarbons from a diesel fuel on the germination and early growth of subantarctic plants. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 1238-48	4.3	17
43	Internal Gradients of Chlorophyll and Carotenoid Pigments in Relation to Photoprotection in Thick Leaves of Plants With Crassulacean Acid Metabolism. <i>Functional Plant Biology</i> , 1994 , 21, 497	2.7	16
42	It Is Hot in the Sun: Antarctic Mosses Have High Temperature Optima for Photosynthesis Despite Cold Climate. <i>Frontiers in Plant Science</i> , 2020 , 11, 1178	6.2	16
41	Photoprotection enhanced by red cell wall pigments in three East Antarctic mosses. <i>Biological Research</i> , 2018 , 51, 49	7.6	16
40	How Much Does Weather Matter? Effects of Rain and Wind on PM Accumulation by Four Species of Australian Native Trees. <i>Atmosphere</i> , 2019 , 10, 633	2.7	14
39	Toxicity of fuel-contaminated soil to Antarctic moss and terrestrial algae. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2004-12	3.8	14
38	Concepts of plant biotic stress. Some insights into the stress physiology of virus-infected plants, from the perspective of photosynthesis. <i>Physiologia Plantarum</i> , 1997 , 100, 203-213	4.6	14
37	Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon scan 2020 , 8, coaa016		13
36	Somatic mutation and the Antarctic ozone hole. <i>Journal of Ecology</i> , 2008 , 96, 378-385	6	13
35	Interpretations of gradients in $\delta^{13}C$ value in thick photosynthetic tissues of plants with Crassulacean acid metabolism. <i>Planta</i> , 1993 , 190, 271	4.7	12
34	Optimizing Spectral and Spatial Resolutions of Unmanned Aerial System Imaging Sensors for Monitoring Antarctic Vegetation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 3813-3825	4.7	11
33	Functional transition in the floral receptacle of the sacred lotus (<i>Nelumbo nucifera</i>): from thermogenesis to photosynthesis. <i>Functional Plant Biology</i> , 2009 , 36, 471-480	2.7	11
32	Probing functional and optical cross-sections of PSII in leaves during state transitions using fast repetition rate light induced fluorescence transients. <i>Functional Plant Biology</i> , 2019 , 46, 567-583	2.7	9

31	One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice 2021 , 9, coab009		9
30	Remote monitoring of dynamic canopy photosynthesis with high time resolution light-induced fluorescence transients. <i>Tree Physiology</i> , 2018 , 38, 1302-1318	4.2	8
29	Introduction: Climate change biology at the ends of the Earth-International Polar year special issue. <i>Global Change Biology</i> , 2009 , 15, 1615-1617	11.4	8
28	Stoichiometric Nightmares: Studies of Photosynthetic O ₂ and CO ₂ Exchanges in CAM Plants. <i>Ecological Studies</i> , 1996 , 19-30	1.1	8
27	Xanthophyll cycle, light energy dissipation and electron transport in transgenic tobacco with reduced carbon assimilation capacity. <i>Functional Plant Biology</i> , 2000 , 27, 289	2.7	8
26	Roadside Moss Turfs in South East Australia Capture More Particulate Matter Along an Urban Gradient than a Common Native Tree Species. <i>Atmosphere</i> , 2019 , 10, 224	2.7	7
25	Thermotolerance capacities of native and exotic coastal plants will lead to changes in species composition under increased heat waves 2017 , 5, cox029		7
24	Friends with benefits: The effects of vegetative shading on plant survival in a green roof environment. <i>PLoS ONE</i> , 2019 , 14, e0225078	3.7	7
23	Native hemiparasite and light effects on photoprotection and photodamage in a native host. <i>Functional Plant Biology</i> , 2015 , 42, 1168-1178	2.7	7
22	The composition and oxidative stability of vegetarian omega-3 algal oil nanoemulsions suitable for functional food enrichment. <i>Journal of the Science of Food and Agriculture</i> , 2020 , 100, 695-704	4.3	7
21	Bayesian methods for comparing species physiological and ecological response curves. <i>Ecological Informatics</i> , 2016 , 34, 35-43	4.2	7
20	High tolerance of repeated heatwaves in Australian native plants. <i>Austral Ecology</i> , 2019 , 44, 597-608	1.5	6
19	Semi-Automated Analysis of Digital Photographs for Monitoring East Antarctic Vegetation. <i>Frontiers in Plant Science</i> , 2020 , 11, 766	6.2	6
18	Distribution of thermogenic activity in floral tissues of <i>Nelumbo nucifera</i> . <i>Functional Plant Biology</i> , 2010 , 37, 1085	2.7	6
17	Photosynthesis In Silico. Overcoming the Challenges of Photosynthesis Education Using a Multimedia CD-ROM. <i>Bioscience Education</i> , 2004 , 3, 1-14		6
16	Latitudinal Biogeographic Structuring in the Globally Distributed Moss. <i>Frontiers in Plant Science</i> , 2020 , 11, 502359	6.2	6
15	Alien grass disrupts reproduction and post-settlement recruitment of co-occurring native vegetation: a mechanism for diversity decline in invaded forest?. <i>Plant Ecology</i> , 2014 , 215, 567-580	1.7	5
14	Stress in native grasses under ecologically relevant heat waves. <i>PLoS ONE</i> , 2018 , 13, e0204906	3.7	5

13	Facilitation, competition and parasitic facilitation amongst invasive and native liana seedlings and a native tree seedling. <i>NeoBiota</i> , 36, 17-38	4.2	4
12	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021.. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 275	4.2	4
11	Introduction: Future fire activity and climate change. <i>Global Change Biology</i> , 2009, 15, 533-544	11.4	3
10	Inhibition of non-photochemical quenching increases functional absorption cross-section of photosystem II as excitation from closed reaction centres is transferred to open centres, facilitating earlier light saturation of photosynthetic electron transport. <i>Functional Plant Biology</i> , 2021,	2.7	3
9	Integrating transient heterogeneity of non-photochemical quenching in shade-grown heterobaric leaves of avocado (<i>Persea americana</i> L.): responses to CO ₂ concentration, stomatal occlusion, dehydration and relative humidity. <i>Plant and Cell Physiology</i> , 2013, 54, 1852-66	4.9	2
8	PRELIMINARY INVESTIGATIONS OF PIGMENT RESPONSES TO PHYLLOXERA INFESTATION. <i>Acta Horticulturae</i> , 2007, 123-133	0.3	2
7	UV-B and Drought Stress Influenced Growth and Cellular Compounds of Two Cultivars of <i>Phaseolus vulgaris</i> L. (Fabaceae). <i>Photochemistry and Photobiology</i> , 2021, 97, 166-179	3.6	2
6	Invasive alien lianas have similar allometry to native lianas in temperate forests. <i>Biological Invasions</i> , 2017, 19, 1029-1037	2.7	1
5	Diatom communities differ among Antarctic moss and lichen vegetation types. <i>Antarctic Science</i> , 2021, 33, 118-132	1.7	1
4	Moss δ ¹³ C: Implications for subantarctic palaeohydrological reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 453, 20-29	2.9	1
3	The success of the Montreal Protocol in mitigating interactive effects of stratospheric ozone depletion and climate change on the environment. <i>Global Change Biology</i> , 2021, 27, 5681-5683	11.4	1
2	A Validated and Accurate Method for Quantifying and Extrapolating Mangrove Above-Ground Biomass Using LiDAR Data. <i>Remote Sensing</i> , 2021, 13, 2763	5	0
1	Development of the Photosynthetic Apparatus in Australian Rainforest Leaves 1998, 3991-3994		