

# Sharon A Robinson

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5808400/sharon-a-robinson-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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> , <b>2022</b> , 21, 275	4.2	4
119	Diatom communities differ among Antarctic moss and lichen vegetation types. <i>Antarctic Science</i> , <b>2021</b> , 33, 118-132	1.7	1
118	A Validated and Accurate Method for Quantifying and Extrapolating Mangrove Above-Ground Biomass Using LiDAR Data. <i>Remote Sensing</i> , <b>2021</b> , 13, 2763	5	0
117	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> , <b>2021</b> , 97, 166-179	3.6	2
116	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> , <b>2021</b> , 20, 1-67	4.2	34
115	One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice <b>2021</b> , 9, coab009		9
114	Combating ecosystem collapse from the tropics to the Antarctic. <i>Global Change Biology</i> , <b>2021</b> , 27, 1692-1703	11.4	43
113	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> , <b>2021</b> , 27, 5681-5683	11.4	1
112	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> , <b>2021</b> ,	2.7	3
111	Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon scan <b>2020</b> , 8, coaa016		13
110	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> , <b>2020</b> , 19, 542-584	4.2	24
109	Semi-Automated Analysis of Digital Photographs for Monitoring East Antarctic Vegetation. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 766	6.2	6
108	The 2019/2020 summer of Antarctic heatwaves. <i>Global Change Biology</i> , <b>2020</b> , 26, 3178-3180	11.4	24
107	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> , <b>2020</b> , 100, 695-704	4.3	7
106	It Is Hot in the Sun: Antarctic Mosses Have High Temperature Optima for Photosynthesis Despite Cold Climate. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 1178	6.2	16
105	Latitudinal Biogeographic Structuring in the Globally Distributed Moss. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 502359	6.2	6
104	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> , <b>2019</b> , 12, 3813-3825	4.7	11

103	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , <b>2019</b> , 2, 569-579	22.1	61
102	Roadside Moss Turfs in South East Australia Capture More Particulate Matter Along an Urban Gradient than a Common Native Tree Species. <i>Atmosphere</i> , <b>2019</b> , 10, 224	2.7	7
101	High tolerance of repeated heatwaves in Australian native plants. <i>Austral Ecology</i> , <b>2019</b> , 44, 597-608	1.5	6
100	Friends with benefits: The effects of vegetative shading on plant survival in a green roof environment. <i>PLoS ONE</i> , <b>2019</b> , 14, e0225078	3.7	7
99	How Much Does Weather Matter? Effects of Rain and Wind on PM Accumulation by Four Species of Australian Native Trees. <i>Atmosphere</i> , <b>2019</b> , 10, 633	2.7	14
98	The interactive effects of stratospheric ozone depletion, UV radiation, and climate change on aquatic ecosystems. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 717-746	4.2	66
97	Linkages between stratospheric ozone, UV radiation and climate change and their implications for terrestrial ecosystems. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 681-716	4.2	77
96	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> , <b>2019</b> , 46, 567-583	2.7	9
95	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> , <b>2018</b> , 17, 127-179	4.2	105
94	Remote monitoring of dynamic canopy photosynthesis with high time resolution light-induced fluorescence transients. <i>Tree Physiology</i> , <b>2018</b> , 38, 1302-1318	4.2	8
93	Extending Fluspect to simulate xanthophyll driven leaf reflectance dynamics. <i>Remote Sensing of Environment</i> , <b>2018</b> , 211, 345-356	13.2	71
92	Assessment of Antarctic moss health from multi-sensor UAS imagery with Random Forest Modelling. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2018</b> , 68, 168-179	7.3	23
91	Photoprotection enhanced by red cell wall pigments in three East Antarctic mosses. <i>Biological Research</i> , <b>2018</b> , 51, 49	7.6	16
90	Rapid change in East Antarctic terrestrial vegetation in response to regional drying. <i>Nature Climate Change</i> , <b>2018</b> , 8, 879-884	21.4	53
89	Stress in native grasses under ecologically relevant heat waves. <i>PLoS ONE</i> , <b>2018</b> , 13, e0204906	3.7	5
88	Moving beyond presence and absence when examining changes in species distributions. <i>Global Change Biology</i> , <b>2017</b> , 23, 2929-2940	11.4	21
87	Invasive alien lianas have similar allometry to native lianas in temperate forests. <i>Biological Invasions</i> , <b>2017</b> , 19, 1029-1037	2.7	1
86	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2016. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 107-145	4.2	29

85	Unmanned aircraft system advances health mapping of fragile polar vegetation. <i>Methods in Ecology and Evolution</i> , <b>2017</b> , 8, 1842-1857	7.7	47
84	Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being. <i>Science</i> , <b>2017</b> , 355,	33.3	1215
83	Thermotolerance capacities of native and exotic coastal plants will lead to changes in species composition under increased heat waves <b>2017</b> , 5, cox029		7
82	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> , <b>2017</b> , 44, 985-1006	2.7	30
81	Antarctic Moss Biflavonoids Show High Antioxidant and Ultraviolet-Screening Activity. <i>Journal of Natural Products</i> , <b>2017</b> , 80, 2224-2231	4.9	40
80	Do Daily and Seasonal Trends in Leaf Solar Induced Fluorescence Reflect Changes in Photosynthesis, Growth or Light Exposure?. <i>Remote Sensing</i> , <b>2017</b> , 9, 604	5	19
79	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2015. <i>Photochemical and Photobiological Sciences</i> , <b>2016</b> , 15, 141-74	4.2	37
78	Bayesian methods for comparing species physiological and ecological response curves. <i>Ecological Informatics</i> , <b>2016</b> , 34, 35-43	4.2	7
77	Moss $\delta^{13}C$ : Implications for subantarctic palaeohydrological reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2016</b> , 453, 20-29	2.9	1
76	Impact of hydrocarbons from a diesel fuel on the germination and early growth of subantarctic plants. <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 1238-48	4.3	17
75	Solar ultraviolet radiation and ozone depletion-driven climate change: effects on terrestrial ecosystems. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 88-107	4.2	123
74	Not just about sunburn--the ozone hole's profound effect on climate has significant implications for Southern Hemisphere ecosystems. <i>Global Change Biology</i> , <b>2015</b> , 21, 515-27	11.4	55
73	Native hemiparasite and light effects on photoprotection and photodamage in a native host. <i>Functional Plant Biology</i> , <b>2015</b> , 42, 1168-1178	2.7	7
72	Toxicity of fuel-contaminated soil to Antarctic moss and terrestrial algae. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 2004-12	3.8	14
71	Antarctic moss stress assessment based on chlorophyll content and leaf density retrieved from imaging spectroscopy data. <i>New Phytologist</i> , <b>2015</b> , 208, 608-24	9.8	36
70	Moss $\delta^{13}C$ : an accurate proxy for past water environments in polar regions. <i>Global Change Biology</i> , <b>2015</b> , 21, 2454-64	11.4	20
69	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> , <b>2014</b> , 215, 567-580	1.7	5
68	The spatial structure of Antarctic biodiversity. <i>Ecological Monographs</i> , <b>2014</b> , 84, 203-244	9	203

67	Solar ultraviolet radiation in a changing climate. <i>Nature Climate Change</i> , <b>2014</b> , 4, 434-441	21.4	221
66	Phytoremediation of hydrocarbon contaminants in subantarctic soils: an effective management option. <i>Journal of Environmental Management</i> , <b>2014</b> , 142, 60-9	7.9	43
65	Antarctic climate change and the environment: an update. <i>Polar Record</i> , <b>2014</b> , 50, 237-259	0.5	306
64	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> , <b>2014</b> , 6, 4003-4024	5	126
63	Using an Unmanned Aerial Vehicle (UAV) to capture micro-topography of Antarctic moss beds. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2014</b> , 27, 53-62	7.3	163
62	Dominating the Antarctic Environment: Bryophytes in a Time of Change. <i>Advances in Photosynthesis and Respiration</i> , <b>2014</b> , 309-324	1.7	22
61	Sun-safe Bryophytes: Photoprotection from Excess and Damaging Solar Radiation. <i>Advances in Photosynthesis and Respiration</i> , <b>2014</b> , 113-130	1.7	22
60	Integrating transient heterogeneity of non-photochemical quenching in shade-grown heterobaric leaves of avocado ( <i>Persea americana</i> L.): responses to CO <sub>2</sub> concentration, stomatal occlusion, dehydration and relative humidity. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 1852-66	4.9	2
59	Genome of the long-living sacred lotus ( <i>Nelumbo nucifera</i> Gaertn.). <i>Genome Biology</i> , <b>2013</b> , 14, R41	18.3	241
58	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> , <b>2012</b> , 367, 3503-14	5.8	28
57	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> , <b>2012</b> , 39, 1-24	2.7	35
56	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. <i>Photochemical and Photobiological Sciences</i> , <b>2012</b> , 11, 13-27	4.2	37
55	Bryophyte species composition over moisture gradients in the Windmill Islands, East Antarctica: development of a baseline for monitoring climate change impacts. <i>Biodiversity</i> , <b>2012</b> , 13, 257-264	0.7	22
54	Radiocarbon bomb spike reveals biological effects of Antarctic climate change. <i>Global Change Biology</i> , <b>2012</b> , 18, 301-310	11.4	44
53	Effects of solar ultraviolet radiation on terrestrial ecosystems. Patterns, mechanisms, and interactions with climate change. <i>Photochemical and Photobiological Sciences</i> , <b>2011</b> , 10, 226-41	4.2	277
52	In the heat of the night--alternative pathway respiration drives thermogenesis in <i>Philodendron bipinnatifidum</i> . <i>New Phytologist</i> , <b>2011</b> , 189, 1013-1026	9.8	24
51	Distribution of thermogenic activity in floral tissues of <i>Nelumbo nucifera</i> . <i>Functional Plant Biology</i> , <b>2010</b> , 37, 1085	2.7	6
50	Two cys or not two cys? That is the question; alternative oxidase in the thermogenic plant sacred Lotus. <i>Plant Physiology</i> , <b>2009</b> , 150, 987-95	6.6	37

49	Antarctic climate change and the environment. <i>Antarctic Science</i> , <b>2009</b> , 21, 541-563	1.7	148
48	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> , <b>2009</b> , 15, 319-329	11.4	37
47	Introduction: Future fire activity and climate change. <i>Global Change Biology</i> , <b>2009</b> , 15, 533-544	11.4	3
46	Responses of plants in polar regions to UVB exposure: a meta-analysis. <i>Global Change Biology</i> , <b>2009</b> , 15, 2574-2589	11.4	123
45	Introduction: Climate change biology at the ends of the Earth-International Polar year special issue. <i>Global Change Biology</i> , <b>2009</b> , 15, 1615-1617	11.4	8
44	Functional transition in the floral receptacle of the sacred lotus ( <i>Nelumbo nucifera</i> ): from thermogenesis to photosynthesis. <i>Functional Plant Biology</i> , <b>2009</b> , 36, 471-480	2.7	11
43	Desiccation protects two Antarctic mosses from ultraviolet-B induced DNA damage. <i>Functional Plant Biology</i> , <b>2009</b> , 36, 214-221	2.7	33
42	Genetic structure of East Antarctic populations of the moss <i>Ceratodon purpureus</i> . <i>Antarctic Science</i> , <b>2009</b> , 21, 51-58	1.7	18
41	Cell wall-bound ultraviolet-screening compounds explain the high ultraviolet tolerance of the Antarctic moss, <i>Ceratodon purpureus</i> . <i>New Phytologist</i> , <b>2008</b> , 179, 776-783	9.8	81
40	Somatic mutation and the Antarctic ozone hole. <i>Journal of Ecology</i> , <b>2008</b> , 96, 378-385	6	13
39	Mechanisms of thermoregulation in plants. <i>Plant Signaling and Behavior</i> , <b>2008</b> , 3, 595-7	2.5	18
38	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> , <b>2008</b> , 59, 705-14	7	39
37	PRELIMINARY INVESTIGATIONS OF PIGMENT RESPONSES TO PHYLLOXERA INFESTATION. <i>Acta Horticulturae</i> , <b>2007</b> , 123-133	0.3	2
36	Phylloxera-infested grapevines have reduced chlorophyll and increased photoprotective pigment content - can leaf pigment composition aid pest detection?. <i>Functional Plant Biology</i> , <b>2006</b> , 33, 507-514	2.7	55
35	Some like it wet - biological characteristics underpinning tolerance of extreme water stress events in Antarctic bryophytes. <i>Functional Plant Biology</i> , <b>2006</b> , 33, 443-455	2.7	60
34	Contribution of the alternative pathway to respiration during thermogenesis in flowers of the sacred lotus. <i>Plant Physiology</i> , <b>2006</b> , 140, 1367-73	6.6	60
33	Climate change manipulations show Antarctic flora is more strongly affected by elevated nutrients than water. <i>Global Change Biology</i> , <b>2006</b> , 12, 1800-1812	11.4	55
32	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> , <b>2006</b> , 12, 2282-2296	11.4	46

31	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> , <b>2005</b> , 11, 476-489	11.4	68
30	Regulation of Respiration In Vivo <b>2005</b> , 1-15		26
29	The Application of the Oxygen-Isotope Technique to Assess Respiratory Pathway Partitioning <b>2005</b> , 31-42		35
28	Photosynthesis In Silico. Overcoming the Challenges of Photosynthesis Education Using a Multimedia CD-ROM. <i>Bioscience Education</i> , <b>2004</b> , 3, 1-14		6
27	Comparison of solvent regimes for the extraction of photosynthetic pigments from leaves of higher plants. <i>Functional Plant Biology</i> , <b>2004</b> , 31, 195-202	2.7	32
26	Living on the edge [plants and global change in continental and maritime Antarctica. <i>Global Change Biology</i> , <b>2003</b> , 9, 1681-1717	11.4	166
25	Surface reflectance properties of Antarctic moss and their relationship to plant species, pigment composition and photosynthetic function. <i>Plant, Cell and Environment</i> , <b>2002</b> , 25, 1239-1250	8.4	71
24	Response of <i>Tradescantia albiflora</i> to growth irradiance: Change versus changeability. <i>Photosynthesis Research</i> , <b>2001</b> , 67, 103-12	3.7	22
23	Effects of light on respiration and oxygen isotope fractionation in soybean cotyledons. <i>Plant, Cell and Environment</i> , <b>2000</b> , 23, 983-989	8.4	73
22	Desiccation tolerance of three moss species from continental Antarctica. <i>Functional Plant Biology</i> , <b>2000</b> , 27, 379	2.7	19
21	Xanthophyll cycle, light energy dissipation and electron transport in transgenic tobacco with reduced carbon assimilation capacity. <i>Functional Plant Biology</i> , <b>2000</b> , 27, 289	2.7	8
20	Development of the Photosynthetic Apparatus in Australian Rainforest Leaves <b>1998</b> , 3991-3994		
19	Concepts of plant biotic stress. Some insights into the stress physiology of virus-infected plants, from the perspective of photosynthesis. <i>Physiologia Plantarum</i> , <b>1997</b> , 100, 203-213	4.6	14
18	The Regulation of Electron Partitioning between the Cytochrome and Alternative Pathways in Soybean Cotyledon and Root Mitochondria. <i>Plant Physiology</i> , <b>1997</b> , 113, 903-911	6.6	81
17	Concepts of plant biotic stress. Some insights into the stress physiology of virus-infected plants, from the perspective of photosynthesis. <i>Physiologia Plantarum</i> , <b>1997</b> , 100, 203-213	4.6	134
16	Internal and external photoprotection in developing leaves of the CAM plant <i>Cotyledon orbiculata</i> . <i>Plant, Cell and Environment</i> , <b>1997</b> , 20, 617-624	8.4	65
15	Responses of Rainforest Understorey Plants to Excess Light during Sunflecks. <i>Functional Plant Biology</i> , <b>1997</b> , 24, 17	2.7	36
14	Stoichiometric Nightmares: Studies of Photosynthetic O <sub>2</sub> and CO <sub>2</sub> Exchanges in CAM Plants. <i>Ecological Studies</i> , <b>1996</b> , 19-30	1.1	8

13	Electron Partitioning between the Cytochrome and Alternative Pathways in Plant Mitochondria. <i>Plant Physiology</i> , <b>1995</b> , 109, 829-837	6.6	131
12	Evidence for deamination by glutamate dehydrogenase in higher plants: Commentary. <i>Canadian Journal of Botany</i> , <b>1995</b> , 73, 1112-1115		40
11	Photosystem II Regulation and Dynamics of the Chloroplast D1 Protein in Arabidopsis Leaves during Photosynthesis and Photoinhibition. <i>Plant Physiology</i> , <b>1995</b> , 107, 943-952	6.6	125
10	Beyond Sham and Cyanide: Opportunities for Studying the Alternative Oxidase in Plant Respiration Using Oxygen Isotope Discrimination.. <i>Functional Plant Biology</i> , <b>1995</b> , 22, 487	2.7	36
9	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> , <b>1995</b> , 22, 805	2.7	37
8	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> , <b>1994</b> , 21, 497	2.7	16
7	Wax as a Mechanism for Protection against Photoinhibition I A Study of <i>Cotyledon orbiculata</i> . <i>Botanica Acta</i> , <b>1993</b> , 106, 307-312		68
6	Interpretations of gradients in $\delta^{13}C$ value in thick photosynthetic tissues of plants with Crassulacean acid metabolism. <i>Planta</i> , <b>1993</b> , 190, 271	4.7	12
5	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> , <b>1992</b> , 100, 1087-91	6.6	94
4	Regulation of glutamate dehydrogenase activity in relation to carbon limitation and protein catabolism in carrot cell suspension cultures. <i>Plant Physiology</i> , <b>1992</b> , 98, 1190-5	6.6	104
3	The role of glutamate dehydrogenase in plant nitrogen metabolism. <i>Plant Physiology</i> , <b>1991</b> , 95, 509-16	6.6	257
2	The Enzymology and Metabolism of Glutamine, Glutamate, and Asparagine <b>1990</b> , 121-159		55
1	Facilitation, competition and parasitic facilitation amongst invasive and native liana seedlings and a native tree seedling. <i>NeoBiota</i> , <b>36</b> , 17-38	4.2	4