

Richard P Beckett

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94
papers

2,876
citations

31
h-index

51
g-index

101
ext. papers

3,175
ext. citations

3.7
avg, IF

5.07
L-index

#	Paper	IF	Citations
94	What is stress? Concepts, definitions and applications in seed science. <i>New Phytologist</i> , 2010 , 188, 655-73	3.8	287
93	Desiccation-Tolerance in Lichens: A Review. <i>Bryologist</i> , 2008 , 111, 576-593	0.7	227
92	Revival of a resurrection plant correlates with its antioxidant status. <i>Plant Journal</i> , 2002 , 31, 13-24	6.9	181
91	Extracellular production of reactive oxygen species during seed germination and early seedling growth in <i>Pisum sativum</i> . <i>Journal of Plant Physiology</i> , 2010 , 167, 805-11	3.6	114
90	Wound-induced apoplastic peroxidase activities: their roles in the production and detoxification of reactive oxygen species. <i>Plant, Cell and Environment</i> , 2009 , 32, 497-508	8.4	113
89	Possible functions of extracellular peroxidases in stress-induced generation and detoxification of active oxygen species. <i>Phytochemistry Reviews</i> , 2004 , 3, 173-193	7.7	87
88	Effect of seaweed concentrate on the growth and mineral nutrition of nutrient-stressed lettuce. <i>Journal of Applied Phycology</i> , 1990 , 2, 269-272	3.2	86
87	Biochemical traits of lichens differing in relative desiccation tolerance. <i>New Phytologist</i> , 2003 , 160, 167-178	1.8	83
86	Effect of water content components on desiccation and recovery in <i>Sphagnum</i> mosses. <i>Annals of Botany</i> , 2008 , 101, 165-73	4.1	80
85	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant <i>Castanea sativa</i> seeds. <i>Plant, Cell and Environment</i> , 2010 , 33, 59-75	8.4	72
84	Uptake and Effect of Cations on Lichen Metabolism*. <i>Lichenologist</i> , 1984 , 16, 173-188	1.1	72
83	An oxidative burst of superoxide in embryonic axes of recalcitrant sweet chestnut seeds as induced by excision and desiccation. <i>Physiologia Plantarum</i> , 2008 , 133, 131-9	4.6	62
82	The Control of Cadmium Uptake in the Lichen Genus <i>Peltigera</i> . <i>Journal of Experimental Botany</i> , 1984 , 35, 1071-1082	7	61
81	Differential Sensitivity of Lichens to Heavy Metals. <i>Annals of Botany</i> , 1983 , 52, 51-57	4.1	53
80	Roles of apoplastic peroxidases in plant response to wounding. <i>Phytochemistry</i> , 2015 , 112, 122-9	4	52
79	Intracellular and Extracellular Uptake of Cadmium by the Moss <i>Rhytidiadelphus squarrosus</i> . <i>Annals of Botany</i> , 1985 , 55, 179-188	4.1	50
78	High rates of extracellular superoxide production in bryophytes and lichens, and an oxidative burst in response to rehydration following desiccation. <i>New Phytologist</i> , 2001 , 152, 333-341	9.8	45

77	ABA treatment increases both the desiccation tolerance of photosynthesis, and nonphotochemical quenching in the moss <i>Atrichum undulatum</i> . <i>Plant Ecology</i> , 2000 , 151, 65-71	1.7	44
76	The effect of seaweed concentrate on the growth and yield of potassium stressed wheat. <i>Plant and Soil</i> , 1989 , 116, 29-36	4.2	44
75	Abscisic acid modifies the changes in lipids brought about by water stress in the moss <i>Atrichum androgynum</i> . <i>New Phytologist</i> , 2002 , 156, 255-264	9.8	43
74	ABA Increases the Desiccation Tolerance of Photosynthesis in the Afromontane Understorey Moss <i>Atrichum androgynum</i> . <i>Annals of Botany</i> , 2001 , 88, 1093-1100	4.1	43
73	Partial dehydration and ABA induce tolerance to desiccation-induced ion leakage in the moss <i>Atrichum androgynum</i> . <i>South African Journal of Botany</i> , 1999 , 65, 212-217	2.9	39
72	Some Aspects of the Water Relations of Lichens from Habitats of Contrasting Water Status studied using Thermocouple Psychrometry. <i>Annals of Botany</i> , 1995 , 76, 211-217	4.1	38
71	Production of reactive oxygen species in excised, desiccated and cryopreserved explants of <i>Trichilia dregeana</i> Sond. <i>South African Journal of Botany</i> , 2010 , 76, 112-118	2.9	37
70	Co-occurrence of the multicopper oxidases tyrosinase and laccase in lichens in sub-order peltigerineae. <i>Annals of Botany</i> , 2006 , 98, 1035-42	4.1	37
69	Oxidoreductases and cellulases in lichens: possible roles in lichen biology and soil organic matter turnover. <i>Fungal Biology</i> , 2013 , 117, 431-8	2.8	35
68	Pressure-Volume Analysis of a Range of Poikilohydric Plants Implies the Existence of Negative Turgor in Vegetative Cells. <i>Annals of Botany</i> , 1997 , 79, 145-152	4.1	35
67	THE RELATIONSHIP BETWEEN CADMIUM UPTAKE AND HEAVY METAL TOLERANCE IN THE LICHEN GENUS PELTIGERA. <i>New Phytologist</i> , 1984 , 97, 301-311	9.8	35
66	A heme peroxidase of the ascomyceteous lichen <i>Leptogium saturninum</i> oxidizes high-redox potential substrates. <i>Fungal Genetics and Biology</i> , 2011 , 48, 1139-45	3.9	33
65	Stress physiology and the symbiosis		31
64	An oxidative burst of hydrogen peroxide during rehydration following desiccation in the moss <i>Atrichum androgynum</i> . <i>New Phytologist</i> , 2002 , 155, 275-283	9.8	31
63	High rates of extracellular superoxide production by lichens in the suborder Peltigerineae correlate with indices of high metabolic activity. <i>Plant, Cell and Environment</i> , 2003 , 26, 1827-1837	8.4	30
62	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in <i>Pisum sativum</i> seedlings. <i>Phytochemistry</i> , 2015 , 112, 130-8	4	28
61	Occurrence of laccases in lichenized ascomycetes of the Peltigerineae. <i>Mycological Research</i> , 2006 , 110, 846-53		28
60	Natural and Experimentally-induced Zinc and Copper Resistance in the Lichen Genus <i>Peltigera</i> . <i>Annals of Botany</i> , 1983 , 52, 43-50	4.1	28

59	Hardening enhances photoprotection in the moss <i>Atrichum androgynum</i> during rehydration by increasing fast- rather than slow-relaxing quenching. <i>Journal of Bryology</i> , 2005 , 27, 7-12	1.1	26
58	ABA-induced tolerance to ion leakage during rehydration following desiccation in the moss <i>Atrichum androgynum</i> . <i>Plant Growth Regulation</i> , 2001 , 35, 131-135	3.2	26
57	Hardening by partial dehydration and ABA increase desiccation tolerance in the cyanobacterial lichen <i>Peltigera polydactylon</i> . <i>Annals of Botany</i> , 2005 , 96, 109-15	4.1	25
56	Diversity of laccases from lichens in suborder Peltigerineae. <i>Bryologist</i> , 2009 , 112, 418-426	0.7	24
55	Effect of seaweed concentrate on yield of nutrient-stressed tepary bean (<i>Phaseolus acutifolius</i> gray). <i>Journal of Applied Phycology</i> , 1994 , 6, 429-430	3.2	24
54	Cell wall peroxidases in the liverwort <i>Dumortiera hirsuta</i> are responsible for extracellular superoxide production, and can display tyrosinase activity. <i>Physiologia Plantarum</i> , 2010 , 138, 474-84	4.6	23
53	Seasonal variations in tolerance to ion leakage following desiccation in the moss <i>Atrichum androgynum</i> from a KwaZulu-Natal afro-montane forest. <i>South African Journal of Botany</i> , 1997 , 63, 276-279	2.9	23
52	Alleviation of dormancy by reactive oxygen species in <i>Bidens pilosa</i> L. seeds. <i>South African Journal of Botany</i> , 2010 , 76, 601-605	2.9	18
51	Kinetic analysis of Cd uptake in Cd-tolerant and intolerant populations of the moss <i>Rhytidiadelphus squarrosus</i> (Hedw.) Warnst and the lichen <i>Peltigera membranacea</i> (Ach.) Nyl.. <i>New Phytologist</i> , 1995 , 129, 477-486	9.8	18
50	Reactive oxygen species metabolism in desiccation-stressed thalli of the liverwort <i>Dumortiera hirsuta</i> . <i>Physiologia Plantarum</i> , 2004 , 122, 3-10	4.6	16
49	Extracellular reactive oxygen species production by lichens. <i>Lichenologist</i> , 2005 , 37, 397-407	1.1	15
48	Evidence for temperature limitation of nitrogen mineralisation in the Drakensberg Alpine Centre. <i>South African Journal of Botany</i> , 2013 , 88, 447-454	2.9	14
47	Increased activities of superoxide dismutase and catalase are not the mechanism of desiccation tolerance induced by hardening in the moss <i>Atrichum androgynum</i> . <i>Journal of Bryology</i> , 2003 , 25, 281-286	1.1	14
46	Wounding induces a burst of extracellular superoxide production in <i>Peltigera canina</i> . <i>Lichenologist</i> , 2003 , 35, 87-89	1.1	14
45	On the occurrence of peroxidase and laccase activity in lichens. <i>Lichenologist</i> , 2013 , 45, 277-283	1.1	13
44	A preliminary study of the factors affecting the kinetics of cadmium uptake by the liverwort <i>Dumortiera hirsuta</i> . <i>South African Journal of Botany</i> , 1996 , 62, 332-336	2.9	13
43	Membrane sterols and genes of sterol biosynthesis are involved in the response of <i>Triticum aestivum</i> seedlings to cold stress. <i>Plant Physiology and Biochemistry</i> , 2019 , 142, 452-459	5.4	12
42	Some Aspects of the Water Relations of the Lichen <i>Parmotrema Tinctorum</i> Measured Using Thermocouple Psychrometry. <i>Lichenologist</i> , 1996 , 28, 257-266	1.1	11

41	The Effect of Seaweed Concentrate on the Yield of Nutrient Stressed Wheat. <i>Botanica Marina</i> , 1990 , 33,	1.8	11
40	Melanisation in the old forest lichen <i>Lobaria pulmonaria</i> reduces the efficiency of photosynthesis. <i>Fungal Ecology</i> , 2017 , 29, 103-110	4.1	11
39	Occurrence and possible roles of melanic pigments in lichenized ascomycetes. <i>Fungal Biology Reviews</i> , 2019 , 33, 159-165	6.8	11
38	Photoprotection in lichens: adaptations of photobionts to high light. <i>Lichenologist</i> , 2021 , 53, 21-33	1.1	11
37	Sterol binding by methyl- β -cyclodextrin and nystatin--comparative analysis of biochemical and physiological consequences for plants. <i>FEBS Journal</i> , 2014 , 281, 2051-60	5.7	10
36	Role of laccases and peroxidases in saprotrophic activities in the lichen <i>Usnea undulata</i> . <i>Fungal Ecology</i> , 2015 , 14, 71-78	4.1	10
35	Occurrence of high tyrosinase activity in the non-Peltigeralean lichen <i>Dermatocarpon miniatum</i> (L.) W. Mann. <i>Lichenologist</i> , 2012 , 44, 827-832	1.1	10
34	Extracellular redox cycling and hydroxyl radical production occurs widely in lichenized Ascomycetes. <i>Fungal Biology</i> , 2017 , 121, 582-588	2.8	9
33	Investigations on carotenoids in lichens. XVIII. Carotenoid content in certain lichens from southern Africa. <i>South African Journal of Botany</i> , 1988 , 54, 571-574	2.9	8
32	Characterization and role of tyrosinases in the lichen <i>Lobaria pulmonaria</i> (L.) Hoffm.. <i>Lichenologist</i> , 2016 , 48, 311-322	1.1	8
31	Effect of seaweed concentrate on the growth of the seedlings of three species of Eucalyptus. <i>South African Journal of Botany</i> , 1995 , 61, 169-172	2.9	7
30	Hydration in the dark can induce laccase and peroxidase activity in Peltigeralean and non-Peltigeralean lichens. <i>Lichenologist</i> , 2014 , 46, 589-593	1.1	6
29	Patterns of heat production during desiccation and rehydration in lichens differing in desiccation tolerance. <i>Lichenologist</i> , 2011 , 43, 178-183	1.1	6
28	Rapid breakdown of exogenous extracellular hydrogen peroxide by lichens. <i>Physiologia Plantarum</i> , 2007 , 129, 588-596	4.6	6
27	The effect of seaweed concentrate on the uptake of foliar-applied Cu, Mn and Zn by tomato seedlings. <i>South African Journal of Botany</i> , 1990 , 56, 389-392	2.9	6
26	Some aspects of the water relations of the lichen <i>Xanthomaculina hottentotta</i> (Ach.) Hale from the Namib desert. <i>South African Journal of Botany</i> , 1998 , 64, 346-349	2.9	5
25	Improved photoprotection in melanized lichens is a result of fungal solar radiation screening rather than photobiont acclimation. <i>Lichenologist</i> , 2019 , 51, 483-491	1.1	4
24	In vitro Hardening The Role of Ventilation on Acclimation Stress in <i>Kniphofia leucocephala</i> . <i>Plant Growth Regulation</i> , 2004 , 43, 49-55	3.2	4

23	The water relations of the maritime lichen <i>Roccella hypomecha</i> (Ach.) Borg. studied using thermocouple psychrometry. <i>South African Journal of Botany</i> , 1996 , 62, 122-125	2.9	4
22	The effect of thidiazuron on the yield of wheat grown with varying nutrient supply. <i>Plant Growth Regulation</i> , 1992 , 11, 343-348	3.2	4
21	Desiccation Tolerance in Lichens 91-114		3
20	The Effect of Thidiazuron on the Yield of Salinity Stressed Wheat. <i>Annals of Botany</i> , 1992 , 70, 47-51	4.1	3
19	Influence of Cathodic Water Invigoration on the Emergence and Subsequent Growth of Controlled Deteriorated Pea and Pumpkin Seeds. <i>Plants</i> , 2020 , 9,	4.5	3
18	Weed management in sugarcane using a combination of imazapyr followed by velvet bean as a break crop. <i>South African Journal of Plant and Soil</i> , 2019 , 36, 83-90	0.8	2
17	The effect of fluctuating substrate salinity on the yield and flag leaf photosynthesis of wheat. <i>South African Journal of Botany</i> , 1995 , 61, 35-38	2.9	2
16	Shade lichens are characterized by rapid relaxation of non-photochemical quenching on transition to darkness. <i>Lichenologist</i> , 2021 , 53, 409-414	1.1	2
15	Quinone reductase activity is widespread in lichens. <i>Lichenologist</i> , 2021 , 53, 265-269	1.1	2
14	Activity of Redox Enzymes in the Thallus of <i>Anthoceros natalensis</i> . <i>Biochemistry (Moscow)</i> , 2015 , 80, 1157-68	1.6	1
13	Drying without dying. <i>New Phytologist</i> , 2003 , 157, 6-7	9.8	1
12	Determination of the Parameters of Lichen Water Relations 2002 , 236-254		1
11	Effect of desiccation stress on Cd uptake in the lichen <i>Peltigera membranacea</i> . <i>South African Journal of Botany</i> , 1996 , 62, 121-122	2.9	1
10	The effect of water stress on the liverwort <i>Dumortiera hirsuta</i> measured using thermocouple psychrometry. <i>South African Journal of Botany</i> , 1993 , 59, 462-464	2.9	1
9	The Effect of the Herbicide Dichlorophen on the Physiology and Growth of Two Bryophytes. <i>Annals of Botany</i> , 1986 , 57, 201-209	4.1	1
8	The Effect of Phosphate Buffer on the Physiology of the Lichen <i>Evernia prunastri</i> . <i>Annals of Botany</i> , 1987 , 60, 553-562	4.1	1
7	The Roles of Plant Peroxidases in the Metabolism of Reactive Nitrogen Species and Other Nitrogenous Compounds. <i>Signaling and Communication in Plants</i> , 2015 , 43-62	1	1
6	Cathodic Water Enhances Seedling Emergence and Growth of Controlled Deteriorated Orthodox Seeds. <i>Plants</i> , 2021 , 10,	4.5	1

- 5 Peroxidases of *Anthoceros natalensis*, an evolutionary precursor of vascular plants. *Doklady Biological Sciences*, **2012**, 447, 357-9 0.9
- 4 In vitro hardening [the role of supra-optimal sucrose on acclimation stress in *Kniphofia leucocephala*. *South African Journal of Botany*, **2005**, 71, 107-109 2.9
- 3 Some Aspects of the Water Relations of the Lichen *Parmotrema Tinctorum* Measured Using Thermocouple Psychrometry. *Lichenologist*, **1996**, 28, 257 1.1
- 2 The effect of micronutrient supply on the growth and seed production of guayule (*Parthenium argentatum* Gray). *Annals of Applied Biology*, **1992**, 120, 567-571 2.6
- 1 Role of quinone reductases in extracellular redox cycling in lichenized ascomycetes. *Fungal Biology*, **2021**, 125, 879-885 2.8