

Thomas Roach

List of Publications by Year in Descending Order

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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.

38
papers

1,200
citations

19
h-index

34
g-index

43
ext. papers

1,498
ext. citations

5.6
avg, IF

4.73
L-index

#	Paper	IF	Citations
38	Does oxygen affect ageing mechanisms of <i>Pinus densiflora</i> seeds? A matter of cytoplasmic physical state.. <i>Journal of Experimental Botany</i> , 2022 ,	7	3
37	Acquisition of desiccation tolerance in <i>Haematococcus pluvialis</i> requires photosynthesis and coincides with lipid and astaxanthin accumulation. <i>Algal Research</i> , 2022 , 64, 102699	5	2
36	Apoplastic lipid barriers regulated by conserved homeobox transcription factors extend seed longevity in multiple plant species. <i>New Phytologist</i> , 2021 , 231, 679-694	9.8	2
35	Redox feedback regulation of ANAC089 signaling alters seed germination and stress response. <i>Cell Reports</i> , 2021 , 35, 109263	10.6	1
34	Shedding light on the dark side of xanthophyll cycles. <i>New Phytologist</i> , 2021 , 230, 1336-1344	9.8	7
33	Frozen in the dark: interplay of night-time activity of xanthophyll cycle, xylem attributes, and desiccation tolerance in fern resistance to winter. <i>Journal of Experimental Botany</i> , 2021 , 72, 3168-3184	7	6
32	AtFAHD1a: A New Player Influencing Seed Longevity and Dormancy in Arabidopsis?. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
31	Photoprotection in lichens: adaptations of photobionts to high light. <i>Lichenologist</i> , 2021 , 53, 21-33	1.1	11
30	The non-photochemical quenching protein LHCSR3 prevents oxygen-dependent photoinhibition in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2020 , 71, 2650-2660	7	21
29	Hydrogen Peroxide Metabolism in Interkingdom Interaction Between Bacteria and Wheat Seeds and Seedlings. <i>Molecular Plant-Microbe Interactions</i> , 2020 , 33, 336-348	3.6	6
28	LHCSR3-Type NPQ Prevents Photoinhibition and Slowed Growth under Fluctuating Light in. <i>Plants</i> , 2020 , 9,	4.5	3
27	Changes in Photosynthetic Electron Transport during Leaf Senescence in Two Barley Varieties Grown in Contrasting Growth Regimes. <i>Plant and Cell Physiology</i> , 2020 , 61, 1986-1994	4.9	2
26	Photosynthetic Regulatory Mechanisms for Efficiency and Prevention of Photo-Oxidative Stress 2019 , 273-306		11
25	Abscisic acid-determined seed vigour differences do not influence redox regulation during ageing. <i>Biochemical Journal</i> , 2019 , 476, 965-974	3.8	11
24	Distress and eustress of reactive electrophiles and relevance to light stress acclimation via stimulation of thiol/disulphide-based redox defences. <i>Free Radical Biology and Medicine</i> , 2018 , 122, 65-73	7.8	25
23	Redox poise and metabolite changes in bread wheat seeds are advanced by priming with hot steam. <i>Biochemical Journal</i> , 2018 , 475, 3725-3743	3.8	10
22	Changes in tocochromanols and glutathione reveal differences in the mechanisms of seed ageing under seedbank conditions and controlled deterioration in barley. <i>Environmental and Experimental Botany</i> , 2018 , 156, 8-15	5.9	22

21	LHCSR3 affects de-coupling and re-coupling of LHCII to PSII during state transitions in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2017 , 7, 43145	4.9	11
20	Changes in low-molecular-weight thiol-disulphide redox couples are part of bread wheat seed germination and early seedling growth. <i>Free Radical Research</i> , 2017 , 51, 568-581	4	19
19	<i>Chlamydomonas reinhardtii</i> responding to high light: a role for 2-propenal (acrolein). <i>Physiologia Plantarum</i> , 2017 , 161, 75-87	4.6	22
18	Drought affects the heat-hardening capacity of alpine plants as indicated by changes in xanthophyll cycle pigments, singlet oxygen scavenging, Tocopherol and plant hormones. <i>Environmental and Experimental Botany</i> , 2017 , 133, 159-175	5.9	24
17	Formation of chloroplast protrusions and catalase activity in alpine <i>Ranunculus glacialis</i> under elevated temperature and different CO ₂ /O ₂ ratios. <i>Protoplasma</i> , 2015 , 252, 1613-9	3.4	11
16	Diurnal changes in the xanthophyll cycle pigments of freshwater algae correlate with the environmental hydrogen peroxide concentration rather than non-photochemical quenching. <i>Annals of Botany</i> , 2015 , 116, 519-27	4.1	16
15	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
14	Glutathione redox state, tocochromanols, fatty acids, antioxidant enzymes and protein carbonylation in sunflower seed embryos associated with after-ripening and ageing. <i>Annals of Botany</i> , 2015 , 116, 669-78	4.1	41
13	High light-induced hydrogen peroxide production in <i>Chlamydomonas reinhardtii</i> is increased by high CO ₂ availability. <i>Plant Journal</i> , 2015 , 81, 759-66	6.9	39
12	Regulation of photosynthetic electron transport and photoinhibition. <i>Current Protein and Peptide Science</i> , 2014 , 15, 351-62	2.8	164
11	Acetate in mixotrophic growth medium affects photosystem II in <i>Chlamydomonas reinhardtii</i> and protects against photoinhibition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013 , 1827, 1183-90	4.6	42
10	A dual strategy to cope with high light in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2013 , 25, 545-57	11.6	147
9	Mutants impaired in vacuolar metal mobilization identify chloroplasts as a target for cadmium hypersensitivity in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2013 , 36, 804-17	8.4	40
8	Down-regulation of catalase activity allows transient accumulation of a hydrogen peroxide signal in <i>Chlamydomonas reinhardtii</i> . <i>Plant, Cell and Environment</i> , 2013 , 36, 1204-13	8.4	46
7	The role of the PsbS protein in the protection of photosystems I and II against high light in <i>Arabidopsis thaliana</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 2158-65	4.6	54
6	Evidence for a role of VIPP1 in the structural organization of the photosynthetic apparatus in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2012 , 24, 637-59	11.6	89
5	Extracellular superoxide production associated with secondary root growth following desiccation of <i>Pisum sativum</i> seedlings. <i>Journal of Plant Physiology</i> , 2011 , 168, 1870-3	3.6	12
4	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

- 3 Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant *Castanea sativa* seeds. *Plant, Cell and Environment*, **2010**, 33, 59-75 8.4 72
- 2 An oxidative burst of superoxide in embryonic axes of recalcitrant sweet chestnut seeds as induced by excision and desiccation. *Physiologia Plantarum*, **2008**, 133, 131-9 4.6 62
- 1 Cytoplasmic physical state governs the influence of oxygen on *Pinus densiflora* seed ageing 1