

# Thomas Roach

## List of Publications by Citations

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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	Regulation of photosynthetic electron transport and photoinhibition. <i>Current Protein and Peptide Science</i> , <b>2014</b> , 15, 351-62	2.8	164
37	A dual strategy to cope with high light in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , <b>2013</b> , 25, 545-57	11.6	147
36	Extracellular production of reactive oxygen species during seed germination and early seedling growth in <i>Pisum sativum</i> . <i>Journal of Plant Physiology</i> , <b>2010</b> , 167, 805-11	3.6	114
35	Evidence for a role of VIPP1 in the structural organization of the photosynthetic apparatus in <i>Chlamydomonas</i> . <i>Plant Cell</i> , <b>2012</b> , 24, 637-59	11.6	89
34	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant <i>Castanea sativa</i> seeds. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 59-75	8.4	72
33	An oxidative burst of superoxide in embryonic axes of recalcitrant sweet chestnut seeds as induced by excision and desiccation. <i>Physiologia Plantarum</i> , <b>2008</b> , 133, 131-9	4.6	62
32	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> , <b>2012</b> , 1817, 2158-65	4.6	54
31	Down-regulation of catalase activity allows transient accumulation of a hydrogen peroxide signal in <i>Chlamydomonas reinhardtii</i> . <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 1204-13	8.4	46
30	Acetate in mixotrophic growth medium affects photosystem II in <i>Chlamydomonas reinhardtii</i> and protects against photoinhibition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2013</b> , 1827, 1183-90	4.6	42
29	Glutathione redox state, tocopherols, fatty acids, antioxidant enzymes and protein carbonylation in sunflower seed embryos associated with after-ripening and ageing. <i>Annals of Botany</i> , <b>2015</b> , 116, 669-78	4.1	41
28	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> , <b>2013</b> , 36, 804-17	8.4	40
27	High light-induced hydrogen peroxide production in <i>Chlamydomonas reinhardtii</i> is increased by high CO <sub>2</sub> availability. <i>Plant Journal</i> , <b>2015</b> , 81, 759-66	6.9	39
26	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in <i>Pisum sativum</i> seedlings. <i>Phytochemistry</i> , <b>2015</b> , 112, 130-8	4	28
25	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> , <b>2018</b> , 122, 65-73	7.8	25
24	Drought affects the heat-hardening capacity of alpine plants as indicated by changes in xanthophyll cycle pigments, singlet oxygen scavenging, $\beta$ -tocopherol and plant hormones. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 133, 159-175	5.9	24
23	<i>Chlamydomonas reinhardtii</i> responding to high light: a role for 2-propenal (acrolein). <i>Physiologia Plantarum</i> , <b>2017</b> , 161, 75-87	4.6	22
22	Changes in tocopherols and glutathione reveal differences in the mechanisms of seed ageing under seedbank conditions and controlled deterioration in barley. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 156, 8-15	5.9	22

21	The non-photochemical quenching protein LHCSR3 prevents oxygen-dependent photoinhibition in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 2650-2660	7	21
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> , <b>2017</b> , 51, 568-581	4	19
19	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> , <b>2015</b> , 116, 519-27	4.1	16
18	Extracellular superoxide production associated with secondary root growth following desiccation of <i>Pisum sativum</i> seedlings. <i>Journal of Plant Physiology</i> , <b>2011</b> , 168, 1870-3	3.6	12
17	LHCSR3 affects de-coupling and re-coupling of LHCII to PSII during state transitions in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 43145	4.9	11
16	Photosynthetic Regulatory Mechanisms for Efficiency and Prevention of Photo-Oxidative Stress <b>2019</b> , 273-306		11
15	Abscisic acid-determined seed vigour differences do not influence redox regulation during ageing. <i>Biochemical Journal</i> , <b>2019</b> , 476, 965-974	3.8	11
14	Formation of chloroplast protrusions and catalase activity in alpine <i>Ranunculus glacialis</i> under elevated temperature and different CO <sub>2</sub> /O <sub>2</sub> ratios. <i>Protoplasma</i> , <b>2015</b> , 252, 1613-9	3.4	11
13	Photoprotection in lichens: adaptations of photobionts to high light. <i>Lichenologist</i> , <b>2021</b> , 53, 21-33	1.1	11
12	Redox poise and metabolite changes in bread wheat seeds are advanced by priming with hot steam. <i>Biochemical Journal</i> , <b>2018</b> , 475, 3725-3743	3.8	10
11	Shedding light on the dark side of xanthophyll cycles. <i>New Phytologist</i> , <b>2021</b> , 230, 1336-1344	9.8	7
10	Hydrogen Peroxide Metabolism in Interkingdom Interaction Between Bacteria and Wheat Seeds and Seedlings. <i>Molecular Plant-Microbe Interactions</i> , <b>2020</b> , 33, 336-348	3.6	6
9	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> , <b>2021</b> , 72, 3168-3184	7	6
8	Does oxygen affect ageing mechanisms of <i>Pinus densiflora</i> seeds? A matter of cytoplasmic physical state.. <i>Journal of Experimental Botany</i> , <b>2022</b> ,	7	3
7	LHCSR3-Type NPQ Prevents Photoinhibition and Slowed Growth under Fluctuating Light in. <i>Plants</i> , <b>2020</b> , 9,	4.5	3
6	AtFAHD1a: A New Player Influencing Seed Longevity and Dormancy in Arabidopsis?. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
5	Changes in Photosynthetic Electron Transport during Leaf Senescence in Two Barley Varieties Grown in Contrasting Growth Regimes. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 1986-1994	4.9	2
4	Apoplasmic lipid barriers regulated by conserved homeobox transcription factors extend seed longevity in multiple plant species. <i>New Phytologist</i> , <b>2021</b> , 231, 679-694	9.8	2

3	Acquisition of desiccation tolerance in <i>Haematococcus pluvialis</i> requires photosynthesis and coincides with lipid and astaxanthin accumulation. <i>Algal Research</i> , <b>2022</b> , 64, 102699	5	2
2	Cytoplasmic physical state governs the influence of oxygen on <i>Pinus densiflora</i> seed ageing		1
1	Redox feedback regulation of ANAC089 signaling alters seed germination and stress response. <i>Cell Reports</i> , <b>2021</b> , 35, 109263	10.6	1