

Ilse Kranner

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95
papers

4,559
citations

37
h-index

66
g-index

105
ext. papers

5,318
ext. citations

5
avg, IF

5.64
L-index

#	Paper	IF	Citations
95	What is stress? Concepts, definitions and applications in seed science. <i>New Phytologist</i> , 2010 , 188, 655-73	9.8	287
94	A central role for thiols in plant tolerance to abiotic stress. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 7405-32	6.3	282
93	Glutathione half-cell reduction potential: a universal stress marker and modulator of programmed cell death?. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 2155-65	7.8	230
92	Desiccation-Tolerance in Lichens: A Review. <i>Bryologist</i> , 2008 , 111, 576-593	0.7	227
91	The mechanisms involved in seed dormancy alleviation by hydrogen cyanide unravel the role of reactive oxygen species as key factors of cellular signaling during germination. <i>Plant Physiology</i> , 2009 , 150, 494-505	6.6	216
90	Metals and seeds: Biochemical and molecular implications and their significance for seed germination. <i>Environmental and Experimental Botany</i> , 2011 , 72, 93-105	5.9	195
89	Antioxidants and photoprotection in a lichen as compared with its isolated symbiotic partners. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3141-6	11.5	194
88	A modulating role for antioxidants in desiccation tolerance. <i>Integrative and Comparative Biology</i> , 2005 , 45, 734-40	2.8	184
87	Revival of a resurrection plant correlates with its antioxidant status. <i>Plant Journal</i> , 2002 , 31, 13-24	6.9	181
86	Crosstalk between reactive oxygen species and hormonal signalling pathways regulates grain dormancy in barley. <i>Plant, Cell and Environment</i> , 2011 , 34, 980-993	8.4	126
85	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
84	Biochemical traits of lichens differing in relative desiccation tolerance. <i>New Phytologist</i> , 2003 , 160, 167-176	1.6	83
83	Social waves in giant honeybees repel hornets. <i>PLoS ONE</i> , 2008 , 3, e3141	3.7	80
82	Thermal energy dissipation and xanthophyll cycles beyond the Arabidopsis model. <i>Photosynthesis Research</i> , 2012 , 113, 89-103	3.7	78
81	Physical dormancy in seeds: a game of hide and seek?. <i>New Phytologist</i> , 2013 , 198, 496-503	9.8	77
80	Desiccation tolerant plants as model systems to study redox regulation of protein thiols. <i>Plant Growth Regulation</i> , 2010 , 62, 241-255	3.2	77
79	Glutathione status correlates with different degrees of desiccation tolerance in three lichens. <i>New Phytologist</i> , 2002 , 154, 451-460	9.8	75

78	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
77	Determination of Glutathione and Glutathione Disulphide in Lichens: a Comparison of Frequently Used Methods 1996 , 7, 24-28		70
76	Genome-wide association mapping and biochemical markers reveal that seed ageing and longevity are intricately affected by genetic background and developmental and environmental conditions in barley. <i>Plant, Cell and Environment</i> , 2015 , 38, 1011-22	8.4	68
75	Significance of Thiol-Disulfide Exchange in Resting Stages of Plant Development. <i>Botanica Acta</i> , 1996 , 109, 8-14		68
74	Evidence for the absence of enzymatic reactions in the glassy state. A case study of xanthophyll cycle pigments in the desiccation-tolerant moss <i>Syntrichia ruralis</i> . <i>Journal of Experimental Botany</i> , 2013 , 64, 3033-43	7	66
73	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
72	Content of low-molecular-weight thiols during the imbibition of Pea seeds. <i>Physiologia Plantarum</i> , 1993 , 88, 557-562	4.6	59
71	Inter-nucleosomal DNA fragmentation and loss of RNA integrity during seed ageing. <i>Plant Growth Regulation</i> , 2011 , 63, 63-72	3.2	53
70	Roles of apoplastic peroxidases in plant response to wounding. <i>Phytochemistry</i> , 2015 , 112, 122-9	4	52
69	Noninvasive diagnosis of seed viability using infrared thermography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3912-7	11.5	51
68	Transcriptome-wide mapping of pea seed ageing reveals a pivotal role for genes related to oxidative stress and programmed cell death. <i>PLoS ONE</i> , 2013 , 8, e78471	3.7	48
67	Isolation of high-quality RNA from polyphenol-, polysaccharide- and lipid-rich seeds. <i>Phytochemical Analysis</i> , 2006 , 17, 144-8	3.4	48
66	Volatile fingerprints of seeds of four species indicate the involvement of alcoholic fermentation, lipid peroxidation, and Maillard reactions in seed deterioration during ageing and desiccation stress. <i>Journal of Experimental Botany</i> , 2012 , 63, 6519-30	7	45
65	Application of heat stress in situ demonstrates a protective role of irradiation on photosynthetic performance in alpine plants. <i>Plant, Cell and Environment</i> , 2015 , 38, 812-26	8.4	44
64	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> , 2015 , 116, 669-78	4.1	41
63	Formation of lipid bodies and changes in fatty acid composition upon pre-akinete formation in Arctic and Antarctic <i>Zygnema</i> (<i>Zygnematophyceae</i> , <i>Streptophyta</i>) strains. <i>FEMS Microbiology Ecology</i> , 2016 , 92,	4.3	41
62	Analyses of reactive oxygen species and antioxidants in relation to seed longevity and germination. <i>Methods in Molecular Biology</i> , 2011 , 773, 343-67	1.4	41
61	Side-effects of domestication: cultivated legume seeds contain similar tocopherols and fatty acids but less carotenoids than their wild counterparts. <i>BMC Plant Biology</i> , 2014 , 14, 1599	5.3	39

60	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
59	Mathematically combined half-cell reduction potentials of low-molecular-weight thiols as markers of seed ageing. <i>Free Radical Research</i> , 2011 , 45, 1093-102	4	33
58	Glutathione half-cell reduction potential and Tocopherol as viability markers during the prolonged storage of <i>Suaeda maritima</i> seeds. <i>Seed Science Research</i> , 2010 , 20, 47-53	1.3	32
57	Stress physiology and the symbiosis		31
56	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
55	Simultaneous Determination of Ascorbic Acid and Dehydroascorbic Acid in Plant Materials by High Performance Liquid Chromatography 1996 , 7, 69-72		27
54	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
53	Salt stress, signalling and redox control in seeds. <i>Functional Plant Biology</i> , 2013 , 40, 848-859	2.7	25
52	Wet-dry cycling extends seed persistence by re-instating antioxidant capacity. <i>Plant and Soil</i> , 2011 , 338, 511-519	4.2	25
51	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
50	Increased stress parameter synthesis in the yeast <i>Saccharomyces cerevisiae</i> after treatment with 4-hydroxy-2-nonenal. <i>FEBS Letters</i> , 1997 , 405, 11-5	3.8	24
49	Redox state of low-molecular-weight thiols and disulphides during somatic embryogenesis of salt-treated suspension cultures of <i>Dactylis glomerata</i> L. <i>Free Radical Research</i> , 2012 , 46, 656-64	4	22
48	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
47	Association genetics of phenolic needle compounds in Norway spruce with variable susceptibility to needle bladder rust. <i>Plant Molecular Biology</i> , 2017 , 94, 229-251	4.6	19
46	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
45	Foliar Phenolic Compounds in Norway Spruce with Varying Susceptibility to : Analyses of Seasonal and Infection-Induced Accumulation Patterns. <i>Frontiers in Plant Science</i> , 2017 , 8, 1173	6.2	19
44	Quantification of seed oil from species with varying oil content using supercritical fluid extraction. <i>Phytochemical Analysis</i> , 2008 , 19, 493-8	3.4	19
43	Novel loci and a role for nitric oxide for seed dormancy and preharvest sprouting in barley. <i>Plant, Cell and Environment</i> , 2019 , 42, 1318-1327	8.4	19

42	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
41	Seed Carotenoid and Tocochromanol Composition of Wild Fabaceae Species Is Shaped by Phylogeny and Ecological Factors. <i>Frontiers in Plant Science</i> , 2017 , 8, 1428	6.2	17
40	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
39	Homoglutathione synthetase and glutathione synthetase in drought-stressed cowpea leaves: expression patterns and accumulation of low-molecular-weight thiols. <i>Journal of Plant Physiology</i> , 2010 , 167, 480-7	3.6	16
38	Metatranscriptomic and metabolite profiling reveals vertical heterogeneity within a <i>Zygnema</i> green algal mat from Svalbard (High Arctic). <i>Environmental Microbiology</i> , 2019 , 21, 4283-4299	5.2	15
37	Analysis of Chlorophylls, Carotenoids, and Tocopherols in Lichens 2002 , 363-378		15
36	Extreme thermo-tolerance in seeds of desert succulents is related to maximum annual temperature. <i>South African Journal of Botany</i> , 2007 , 73, 262-265	2.9	14
35	How dry is dry? Molecular mobility in relation to thallus water content in a lichen. <i>Journal of Experimental Botany</i> , 2021 , 72, 1576-1588	7	14
34	Pre-akinete formation in <i>Zygnema</i> sp. from polar habitats is associated with metabolite re-arrangement. <i>Journal of Experimental Botany</i> , 2020 , 71, 3314-3322	7	13
33	Glutathione half-cell reduction potential as a seed viability marker of the potential oilseed crop <i>Vernonia galamensis</i> . <i>Industrial Crops and Products</i> , 2010 , 32, 687-691	5.9	13
32	Wheat seed ageing viewed through the cellular redox environment and changes in pH. <i>Free Radical Research</i> , 2019 , 53, 641-654	4	12
31	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
30	Analyses of several seed viability markers in individual recalcitrant seeds of <i>Eugenia stipitata</i> McVaugh with totipotent germination. <i>Plant Biology</i> , 2017 , 19, 6-13	3.7	11
29	The freshwater red alga (Florideophyceae) can acclimate to a wide range of light and temperature conditions. <i>European Journal of Phycology</i> , 2017 , 52, 238-249	2.2	11
28	Abscisic acid-determined seed vigour differences do not influence redox regulation during ageing. <i>Biochemical Journal</i> , 2019 , 476, 965-974	3.8	11
27	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
26	Abundance and Extracellular Release of Phytohormones in Aero-terrestrial Microalgae (Trebouxiophyceae, Chlorophyta) As a Potential Chemical Signaling Source. <i>Journal of Phycology</i> , 2020 , 56, 1295-1307	3	11
25	How to join a wave: decision-making processes in shimmering behavior of Giant honeybees (<i>Apis dorsata</i>). <i>PLoS ONE</i> , 2012 , 7, e36736	3.7	11

24	Stereoscopic motion analysis in densely packed clusters: 3D analysis of the shimmering behaviour in Giant honey bees. <i>Frontiers in Zoology</i> , 2011 , 8, 3	2.8	11
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	The distribution of glutathione and homoglutathione in leaf, root and seed tissue of 73 species across the three sub-families of the Leguminosae. <i>Phytochemistry</i> , 2015 , 115, 175-83	4	9
21	Post desiccation germination of mature seeds of tea (<i>Camellia sinensis</i> L.) can be enhanced by pro-oxidant treatment, but partial desiccation tolerance does not ensure survival at -20°C. <i>Plant Science</i> , 2012 , 184, 36-44	5.3	9
20	Adaptation to Aquatic and Terrestrial Environments in (Chlorophyta). <i>Frontiers in Microbiology</i> , 2020 , 11, 585836	5.7	8
19	Speeding up social waves. Propagation mechanisms of shimmering in giant honeybees. <i>PLoS ONE</i> , 2014 , 9, e86315	3.7	8
18	RNA-Seq and secondary metabolite analyses reveal a putative defence-transcriptome in Norway spruce (<i>Picea abies</i>) against needle bladder rust (<i>Chrysomyxa rhododendri</i>) infection. <i>BMC Genomics</i> , 2020 , 21, 336	4.5	6
17	Trade-Off between Foraging Activity and Infestation by Nest Parasites in the Primitively Eusocial Bee <i>Halictus scabiosae</i> . <i>Psyche: Journal of Entomology</i> , 2010 , 2010, 1-13	0.2	6
16	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
15	Exceptional flooding tolerance in the totipotent recalcitrant seeds of <i>Eugenia stipitata</i> . <i>Seed Science Research</i> , 2017 , 27, 121-130	1.3	5
14	The crypsis hypothesis explained: a reply to Jayasuriya et al. (2015). <i>Seed Science Research</i> , 2015 , 25, 402-408	1.9	5
13	Solar irradiation levels during simulated long- and short-term heat waves significantly influence heat survival, pigment and ascorbate composition, and free radical scavenging activity in alpine <i>Vaccinium gaultherioides</i> . <i>Physiologia Plantarum</i> , 2018 , 163, 211-230	4.6	4
12	Phytohormone release by three isolated lichen mycobionts and the effects of indole-3-acetic acid on their compatible photobionts. <i>Symbiosis</i> , 2020 , 82, 95-108	3	4
11	Plant Parasites under Pressure: Effects of Abiotic Stress on the Interactions between Parasitic Plants and Their Hosts. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
10	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
9	Enhanced culturing techniques for the mycobiont isolated from the lichen. <i>Mycological Progress</i> , 2021 , 20, 797-808	1.9	3
8	AtFAHD1a: A New Player Influencing Seed Longevity and Dormancy in Arabidopsis?. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
7	Apoplasmic 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

6	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
5	Cytoplasmic physical state governs the influence of oxygen on <i>Pinus densiflora</i> seed ageing		1
4	Redox feedback regulation of ANAC089 signaling alters seed germination and stress response. <i>Cell Reports</i> , 2021 , 35, 109263	10.6	1
3	The lichen market place.. <i>New Phytologist</i> , 2022 , 234, 1541-1543	9.8	1
2	Non-invasive diagnosis of viability in seeds and lichens by infrared thermography under controlled environmental conditions. <i>Plant Methods</i> , 2019 , 15, 147	5.8	
1	Metabolite Profiling in Green Microalgae with Varying Degrees of Desiccation Tolerance. <i>Microorganisms</i> , 2022 , 10, 946	4.9	