

Charlotte E Seal

List of Publications by Citations

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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.

43
papers

1,273
citations

17
h-index

35
g-index

45
ext. papers

1,547
ext. citations

4.3
avg, IF

4.49
L-index

#	Paper	IF	Citations
43	What is stress? Concepts, definitions and applications in seed science. <i>New Phytologist</i> , 2010 , 188, 655-73	7.8	287
42	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
41	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
40	Back to the future with the AGP-Ca ²⁺ flux capacitor. <i>Annals of Botany</i> , 2014 , 114, 1069-85	4.1	56
39	Manipulating the antioxidant capacity of halophytes to increase their cultural and economic value through saline cultivation. <i>AoB PLANTS</i> , 2014 , 6,	2.9	53
38	The effect of combined salinity and waterlogging on the halophyte <i>Suaeda maritima</i> : The role of antioxidants. <i>Environmental and Experimental Botany</i> , 2013 , 87, 120-125	5.9	52
37	Thermal buffering capacity of the germination phenotype across the environmental envelope of the Cactaceae. <i>Global Change Biology</i> , 2017 , 23, 5309-5317	11.4	33
36	Seeds photoblastism and its relationship with some plant traits in 136 cacti taxa. <i>Environmental and Experimental Botany</i> , 2011 , 71, 79-88	5.9	33
35	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
34	Simulating the germination response to diurnally alternating temperatures under climate change scenarios: comparative studies on <i>Carex diandra</i> seeds. <i>Annals of Botany</i> , 2015 , 115, 201-9	4.1	28
33	Salt stress, signalling and redox control in seeds. <i>Functional Plant Biology</i> , 2013 , 40, 848-859	2.7	25
32	Increasing temperatures can improve seedling establishment in arid-adapted savanna trees. <i>Oecologia</i> , 2014 , 175, 1029-40	2.9	24
31	Metabolic and physiological adjustment of <i>Suaeda maritima</i> to combined salinity and hypoxia. <i>Annals of Botany</i> , 2017 , 119, 965-976	4.1	23
30	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
29	Cardinal temperatures and thermal time in <i>Polaskia Beckeb</i> (Cactaceae) species: Effect of projected soil temperature increase and nurse interaction on germination timing. <i>Journal of Arid Environments</i> , 2015 , 115, 73-80	2.5	20
28	Seed germination niche of the halophyte <i>Suaeda maritima</i> to combined salinity and temperature is characterised by a halothermal time model. <i>Environmental and Experimental Botany</i> , 2018 , 155, 177-184	5.9	20
27	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

26	Alternating temperature combined with darkness resets base temperature for germination (T) in photoblastic seeds of <i>Lippia</i> and <i>Aloysia</i> (Verbenaceae). <i>Plant Biology</i> , 2017 , 19, 41-45	3.7	17
25	Rapid adaptation of seed germination requirements of the threatened Mediterranean species <i>Malcolmia littorea</i> (Brassicaceae) and implications for its reintroduction. <i>South African Journal of Botany</i> , 2014 , 94, 46-50	2.9	15
24	Impact of ozone on the viability and antioxidant content of grass seeds is affected by a vertically transmitted symbiotic fungus. <i>Environmental and Experimental Botany</i> , 2015 , 113, 40-46	5.9	15
23	Rainfall, not soil temperature, will limit the seed germination of dry forest species with climate change. <i>Oecologia</i> , 2020 , 192, 529-541	2.9	14
22	Seed selection by earthworms: chemical seed properties matter more than morphological traits. <i>Plant and Soil</i> , 2017 , 413, 97-110	4.2	13
21	Antioxidants in <i>Festuca rubra</i> L. seeds affected by the fungal symbiont <i>Epichloa festucae</i> . <i>Symbiosis</i> , 2012 , 58, 73-80	3	13
20	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
19	Occurrence of Alkaloids in Grass Seeds Symbiotic With Vertically-Transmitted <i>Epichloa</i> Fungal Endophytes and Its Relationship With Antioxidants. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	13
18	Wheat seed ageing viewed through the cellular redox environment and changes in pH. <i>Free Radical Research</i> , 2019 , 53, 641-654	4	12
17	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
16	Influence of current and future climate on the seed germination of <i>Cenostigma microphyllum</i> (Mart. ex G. Don) E. Gagnon & G. P. Lewis. <i>Folia Geobotanica</i> , 2019 , 54, 19-28	1.4	8
15	Physical seed dormancy in <i>Collaea argentina</i> (Fabaceae) and <i>Abutilon pauciflorum</i> (Malvaceae) after 4 years storage. <i>Seed Science and Technology</i> , 2010 , 38, 777-782	0.6	8
14	Dry seeds and environmental extremes: consequences for seed lifespan and germination. <i>Functional Plant Biology</i> , 2016 , 43, 656-668	2.7	8
13	Adaptive significance of functional germination traits in crop wild relatives of Brassica. <i>Agricultural and Forest Meteorology</i> , 2019 , 264, 343-350	5.8	8
12	Dry heat exposure increases hydrogen peroxide levels and breaks physiological seed coat-imposed dormancy in <i>Mesembryanthemum crystallinum</i> (Aizoaceae) seeds. <i>Environmental and Experimental Botany</i> , 2018 , 155, 272-280	5.9	7
11	Fruit oil contents of the genus <i>Quercus</i> (Fagaceae): A comparative study on acorns of subgenus <i>Quercus</i> and the Asian subgenus <i>Cyclobalanopsis</i> . <i>Seed Science and Technology</i> , 2010 , 38, 136-145	0.6	6
10	Environmental stress, future climate, and germination of <i>Myracrodruon urundeuva</i> seeds 1. <i>Journal of Seed Science</i> , 2019 , 41, 32-43	1	5
9	The negative effect of a vertically-transmitted fungal endophyte on seed longevity is stronger than that of ozone transgenerational effect. <i>Environmental and Experimental Botany</i> , 2020 , 175, 104037	5.9	5

8	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
7	Cytoplasmic physical state governs the influence of oxygen on <i>Pinus densiflora</i> seed ageing		1
6	Elemental localisation and a reduced glutathione redox state protect seeds of the halophyte <i>Suaeda maritima</i> from salinity during over-wintering and germination. <i>Environmental and Experimental Botany</i> , 2021 , 190, 104569	5.9	1
5	Regeneration in recalcitrant-seeded species and risks from climate change 2022 , 259-273		1
4	Germination Functional Traits in Seeds of Halophytes 2020 , 1-18		0
3	Is chloride toxic to seed germination in mixed-salt environments? A case study with the coastal halophyte <i>Suaeda maritima</i> in the presence of seawater. <i>Plant Stress</i> , 2021 , 2, 100030		0
2	Water submersion of seeds from three bean cultivars. <i>Plant Production Science</i> , 2016 , 19, 51-60	2.4	
1	Germination Functional Traits in Seeds of Halophytes 2021 , 1477-1494		