Charlotte E Seal

List of Publications by Year in Descending Order

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	Does oxygen affect ageing mechanisms of Pinus densiflora seeds? A matter of cytoplasmic physical state.. *Journal of Experimental Botany*, **2022**,	7	3
42	Regeneration in recalcitrant-seeded species and risks from climate change **2022**, 259-273		1
41	Germination Functional Traits in Seeds of Halophytes **2021**, 1477-1494		
40	Elemental localisation and a reduced glutathione redox state protect seeds of the halophyte Suaeda maritima from salinity during over-wintering and germination. *Environmental and Experimental Botany*, **2021**, 190, 104569	5.9	1
39	Is chloride toxic to seed germination in mixed-salt environments? A case study with the coastal halophyte Suaeda maritima in the presence of seawater. *Plant Stress*, **2021**, 2, 100030		0
38	The negative effect of a vertically-transmitted fungal endophyte on seed longevity is stronger than that of ozone transgenerational effect. *Environmental and Experimental Botany*, **2020**, 175, 104037	5.9	5
37	Germination Functional Traits in Seeds of Halophytes **2020**, 1-18		0
36	Rainfall, not soil temperature, will limit the seed germination of dry forest species with climate change. *Oecologia*, **2020**, 192, 529-541	2.9	14
35	Environmental stress, future climate, and germination of Myracrodruon urundeuva seeds 1. *Journal of Seed Science*, **2019**, 41, 32-43	1	5
34	Wheat seed ageing viewed through the cellular redox environment and changes in pH. *Free Radical Research*, **2019**, 53, 641-654	4	12
33	Influence of current and future climate on the seed germination of Cenostigma microphyllum (Mart. ex G. Don) E. Gagnon & G. P. Lewis. *Folia Geobotanica*, **2019**, 54, 19-28	1.4	8
32	Adaptive significance of functional germination traits in crop wild relatives of Brassica. *Agricultural and Forest Meteorology*, **2019**, 264, 343-350	5.8	8
31	Dry heat exposure increases hydrogen peroxide levels and breaks physiological seed coat-imposed dormancy in Mesembryanthemum crystallinum (Aizoaceae) seeds. *Environmental and Experimental Botany*, **2018**, 155, 272-280	5.9	7
30	Occurrence of Alkaloids in Grass Seeds Symbiotic With Vertically-Transmitted Epichlo Fungal Endophytes and Its Relationship With Antioxidants. *Frontiers in Ecology and Evolution*, **2018**, 6,	3.7	13
29	Seed germination niche of the halophyte Suaeda maritima to combined salinity and temperature is characterised by a halothermal time model. *Environmental and Experimental Botany*, **2018**, 155, 177-184	5.9	20
28	Alternating temperature combined with darkness resets base temperature for germination (T) in photoblastic seeds of Lippia and Aloysia (Verbenaceae). *Plant Biology*, **2017**, 19, 41-45	3.7	17
27	Metabolic and physiological adjustment of Suaeda maritima to combined salinity and hypoxia. *Annals of Botany*, **2017**, 119, 965-976	4.1	23

26	Thermal buffering capacity of the germination phenotype across the environmental envelope of the Cactaceae. *Global Change Biology*, **2017**, 23, 5309-5317	11.4	33
25	Seed selection by earthworms: chemical seed properties matter more than morphological traits. *Plant and Soil*, **2017**, 413, 97-110	4.2	13
24	Water submersion of seeds from three bean cultivars. *Plant Production Science*, **2016**, 19, 51-60	2.4	
23	Dry seeds and environmental extremes: consequences for seed lifespan and germination. *Functional Plant Biology*, **2016**, 43, 656-668	2.7	8
22	Simulating the germination response to diurnally alternating temperatures under climate change scenarios: comparative studies on Carex diandra seeds. *Annals of Botany*, **2015**, 115, 201-9	4.1	28
21	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. *Plant, Cell and Environment*, **2015**, 38, 1011-22	8.4	68
20	Cardinal temperatures and thermal time in Polaskia Backeb (Cactaceae) species: Effect of projected soil temperature increase and nurse interaction on germination timing. *Journal of Arid Environments*, **2015**, 115, 73-80	2.5	20
19	Impact of ozone on the viability and antioxidant content of grass seeds is affected by a vertically transmitted symbiotic fungus. *Environmental and Experimental Botany*, **2015**, 113, 40-46	5.9	15
18	Rapid adaptation of seed germination requirements of the threatened Mediterranean species Malcolmia littorea (Brassicaceae) and implications for its reintroduction. *South African Journal of Botany*, **2014**, 94, 46-50	2.9	15
17	Increasing temperatures can improve seedling establishment in arid-adapted savanna trees. *Oecologia*, **2014**, 175, 1029-40	2.9	24
16	Back to the future with the AGP-Ca2+ flux capacitor. *Annals of Botany*, **2014**, 114, 1069-85	4.1	56
15	Manipulating the antioxidant capacity of halophytes to increase their cultural and economic value through saline cultivation. *AoB PLANTS*, **2014**, 6,	2.9	53
14	Salt stress, signalling and redox control in seeds. *Functional Plant Biology*, **2013**, 40, 848-859	2.7	25
13	The effect of combined salinity and waterlogging on the halophyte Suaeda maritima: The role of antioxidants. *Environmental and Experimental Botany*, **2013**, 87, 120-125	5.9	52
12	A central role for thiols in plant tolerance to abiotic stress. *International Journal of Molecular Sciences*, **2013**, 14, 7405-32	6.3	282
11	Antioxidants in Festuca rubra L. seeds affected by the fungal symbiont Epichlo□festucae. *Symbiosis* , **2012**, 58, 73-80	3	13
10	Redox state of low-molecular-weight thiols and disulphides during somatic embryogenesis of salt-treated suspension cultures of Dactylis glomerata L. *Free Radical Research*, **2012**, 46, 656-64	4	22
9	Post desiccation germination of mature seeds of tea (Camellia sinensis L.) can be enhanced by pro-oxidant treatment, but partial desiccation tolerance does not ensure survival at -20□C. *Plant Science*, **2012**, 184, 36-44	5.3	9

8	Seeds photoblastism and its relationship with some plant traits in 136 cacti taxa. *Environmental and Experimental Botany*, **2011**, 71, 79-88	5.9	33
7	What is stress? Concepts, definitions and applications in seed science. *New Phytologist*, **2010**, 188, 655-73	9.8	287
6	Glutathione half-cell reduction potential and Ɛ-tocopherol as viability markers during the prolonged storage of Suaeda maritima seeds. *Seed Science Research*, **2010**, 20, 47-53	1.3	32
5	Fruit oil contents of the genus Quercus (Fagaceae): A comparative study on acorns of subgenus Quercus and the Asian subgenus Cyclobalanopsis. *Seed Science and Technology*, **2010**, 38, 136-145	0.6	6
4	Physical seed dormancy in Collaea argentina (Fabaceae) and Abutilon pauciflorum (Malvaceae) after 4 years storage. *Seed Science and Technology*, **2010**, 38, 777-782	0.6	8
3	Glutathione half-cell reduction potential as a seed viability marker of the potential oilseed crop Vernonia galamensis. *Industrial Crops and Products*, **2010**, 32, 687-691	5.9	13
2	Quantification of seed oil from species with varying oil content using supercritical fluid extraction. *Phytochemical Analysis*, **2008**, 19, 493-8	3.4	19
1	Cytoplasmic physical state governs the influence of oxygen on Pinus densiflora seed ageing		1