Timothy J Flowers

List of Publications by Citations

72 papers	11,747 citations	35 h-index	74 g-index
74 ext. papers	13,616 ext. citations	5.4 avg, IF	6.79 L-index

#	Paper	IF	Citations
72	Salinity tolerance in halophytes. *New Phytologist*, **2008**, 179, 945-963	9.8	1660
71	The Mechanism of Salt Tolerance in Halophytes. *Annual Review of Plant Physiology*, **1977**, 28, 89-121		1421
70	Improving crop salt tolerance. *Journal of Experimental Botany*, **2004**, 55, 307-19	7	1352
69	Ecology. Crops for a salinized world. *Science*, **2008**, 322, 1478-80	33.3	484
68	Breeding for Salinity Resistance in Crop Plants: Where Next?. *Functional Plant Biology*, **1995**, 22, 875	2.7	482
67	Evolution of halophytes: multiple origins of salt tolerance in land plants. *Functional Plant Biology*, **2010**, 37, 604	2.7	429
66	Halophytes. *Quarterly Review of Biology*, **1986**, 61, 313-337	5.4	402
65	TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, **2020**, 26, 119-188	11.4	399
64	Plant salt tolerance: adaptations in halophytes. *Annals of Botany*, **2015**, 115, 327-31	4.1	380
63	Use of wild relatives to improve salt tolerance in wheat. *Journal of Experimental Botany*, **2006**, 57, 1059-78	7	371
62	Sodium chloride toxicity and the cellular basis of salt tolerance in halophytes. *Annals of Botany*, **2015**, 115, 419-31	4.1	354
61	Silicon reduces sodium uptake in rice (Oryza sativa L.) in saline conditions and this is accounted for by a reduction in the transpirational bypass flow. *Plant, Cell and Environment*, **1999**, 22, 559-565	8.4	297
60	Quantitative trait loci for component physiological traits determining salt tolerance in rice. *Plant Physiology*, **2001**, 125, 406-22	6.6	255
59	Single-cell measurements of the contributions of cytosolic Na(+) and K(+) to salt tolerance. *Plant Physiology*, **2003**, 131, 676-83	6.6	241
58	VARIABILITY IN THE RESISTANCE OF SODIUM CHLORIDE SALINITY WITHIN RICE (ORYZA SATIVA L.) VARIETIES. *New Phytologist*, **1981**, 88, 363-373	9.8	236
57	Why does salinity pose such a difficult problem for plant breeders?. *Agricultural Water Management* , **2005**, 78, 15-24	5.9	221
56	Flooding tolerance in halophytes. *New Phytologist*, **2008**, 179, 964-974	9.8	207

55	Short- and Long-Term Effects of Salinity on Leaf Growth in Rice (Oryza sativaL.). *Journal of Experimental Botany*, **1991**, 42, 881-889	7	189
54	Ion Relations of Plants Under Drought and Salinity. *Functional Plant Biology*, **1986**, 13, 75	2.7	179
53	Mechanisms of sodium uptake by roots of higher plants. *Plant and Soil*, **2010**, 326, 45-60	4.2	171
52	Germination strategies of halophyte seeds under salinity. *Environmental and Experimental Botany*, **2013**, 92, 4-18	5.9	159
51	Salinity Resistance in Rice (Oryza sativa L.) And a Pyramiding Approach to Breeding Varieties for Saline Soils. *Functional Plant Biology*, **1986**, 13, 161	2.7	148
50	Salt sensitivity in chickpea. *Plant, Cell and Environment*, **2010**, 33, 490-509	8.4	146
49	Low-affinity Na+ uptake in the halophyte Suaeda maritima. *Plant Physiology*, **2007**, 145, 559-71	6.6	131
48	Salinity tolerance in Hordeum vulgare: ion concentrations in root cells of cultivars differing in salt tolerance**. *Plant and Soil*, **2001**, 231, 1-9	4.2	130
47	Effect of irrigation methods, management and salinity of irrigation water on tomato yield, soil moisture and salinity distribution. *Irrigation Science*, **2008**, 26, 313-323	3.1	120
46	Puccinellia tenuiflora maintains a low Na+ level under salinity by limiting unidirectional Na+ influx resulting in a high selectivity for K+ over Na+. *Plant, Cell and Environment*, **2009**, 32, 486-96	8.4	116
45	Breeding for salt tolerance in crop plants the role of molecular biology. *Acta Physiologiae Plantarum*, **1997**, 19, 427-433	2.6	109
44	Tissue tolerance: an essential but elusive trait for salt-tolerant crops. *Functional Plant Biology*, **2016** , 43, 1103-1113	2.7	101
43	eHALOPH a Database of Salt-Tolerant Plants: Helping put Halophytes to Work. *Plant and Cell Physiology*, **2016**, 57, e10	4.9	86
42	The effects of sodium chloride on ornamental shrubs. *Scientia Horticulturae*, **2009**, 122, 586-593	4.1	75
41	Introduction to the Special Issue: Halophytes in a changing world. *AoB PLANTS*, **2015**, 7,	2.9	53
40	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
39	The role of lateral roots in bypass flow in rice (Oryza sativa L.). *Plant, Cell and Environment*, **2010**, 33, 702-16	8.4	41
38	Effects of salinity and ozone, individually and in combination, on the growth and ion contents of two chickpea (Cicer arietinum L.) varieties. *Environmental Pollution*, **2002**, 120, 397-403	9.3	41

37	Review: Physiological Approaches to the Improvement of Chemical Control of Japanese Knotweed (Fallopia japonica). *Weed Science*, **2009**, 57, 584-592	2	34
36	Could vesicular transport of Na+ and Cl- be a feature of salt tolerance in halophytes?. *Annals of Botany*, **2019**, 123, 1-18	4.1	33
35	Studies on sodium bypass flow in lateral rootless mutants lrt1 and lrt2, and crown rootless mutant crl1 of rice (Oryza sativa L.). *Plant, Cell and Environment*, **2010**, 33, 687-701	8.4	32
34	Glutathione half-cell reduction potential and □-tocopherol as viability markers during the prolonged storage of Suaeda maritima seeds. *Seed Science Research*, **2010**, 20, 47-53	1.3	32
33	The ionic effects of NaCl on physiology and gene expression in rice genotypes differing in salt tolerance. *Plant and Soil*, **2009**, 315, 135-147	4.2	31
32	Oxygen dynamics in a salt-marsh soil and in Suaeda maritima during tidal submergence. *Environmental and Experimental Botany*, **2013**, 92, 73-82	5.9	29
31	Differentiation of low-affinity Na+ uptake pathways and kinetics of the effects of K+ on Na+ uptake in the halophyte Suaeda maritima. *Plant and Soil*, **2013**, 368, 629-640	4.2	28
30	A new screening technique for salinity resistance in rice (Oryza sativa L.) seedlings using bypass flow. *Plant, Cell and Environment*, **2012**, 35, 1099-108	8.4	28
29	Improving crop salt tolerance using transgenic approaches: An update and physiological analysis. *Plant, Cell and Environment*, **2020**, 43, 2932-2956	8.4	27
28	Do conditions during dormancy influence germination of Suaeda maritima?. *Annals of Botany*, **2008**, 101, 1319-27	4.1	26
27	Metabolic and physiological adjustment of Suaeda maritima to combined salinity and hypoxia. *Annals of Botany*, **2017**, 119, 965-976	4.1	23
26	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
25	High phenotypic plasticity of Suaeda maritima observed under hypoxic conditions in relation to its physiological basis. *Annals of Botany*, **2012**, 109, 1027-36	4.1	19
24	The effect of saline hypoxia on growth and ion uptake in Suaeda maritima. *Functional Plant Biology*, **2010**, 37, 646	2.7	16
23	Secretory structures in plants: Lessons from the Plumbaginaceae on their origin, evolution and roles in stress tolerance. *Plant, Cell and Environment*, **2020**, 43, 2912-2931	8.4	13
22	Aliphatic suberin confers salt tolerance to Arabidopsis by limiting Na+ influx, K+ efflux and water backflow. *Plant and Soil*, **2020**, 448, 603-620	4.2	13
21	Salt tolerance in rice: seedling and reproductive stage QTL mapping come of age. *Theoretical and Applied Genetics*, **2021**, 134, 3495-3533	6	13
20	SsHKT1;1 is coordinated with SsSOS1 and SsNHX1 to regulate Na+ homeostasis in Suaeda salsa under saline conditions. *Plant and Soil*, **2020**, 449, 117-131	4.2	9

19	Ranking of 11 coastal halophytes from salt marshes in northwest Turkey according their salt tolerance. *Turkish Journal of Botany*, **2013**, 37, 1125-1133	1.3	8
18	Consortia of Plant-Growth-Promoting Rhizobacteria Isolated from Halophytes Improve Response of Eight Crops to Soil Salinization and Climate Change Conditions. *Agronomy*, **2021**, 11, 1609	3.6	7
17	Casparian bands and suberin lamellae: Key targets for breeding salt tolerant crops?. *Environmental and Experimental Botany*, **2021**, 191, 104600	5.9	7
16	Is the reduced growth of the halophyte Suaeda maritima under hypoxia due to toxicity of iron or manganese?. *Environmental and Experimental Botany*, **2015**, 116, 61-70	5.9	6
15	Effect of low salinity on ion accumulation, gas exchange and postharvest drought resistance and habit of Coriandrum sativum L.. *Plant and Soil*, **2012**, 355, 199-214	4.2	6
14	Salt Tolerance at the Whole-Plant Level **2000**, 107-123		6
13	Mechanisms of Ion Transport in Halophytes: From Roots to Leaves. *Tasks for Vegetation Science*, **2019**, 125-150	0.9	5
12	Plant□water relations, growth and productivity of tomato irrigated by different methods with saline and non-saline water. *Irrigation and Drainage*, **2011**, 60, 446-453	1.1	5
11	Distribution and Potential Uses of Halophytes within the Gulf Cooperation Council States. *Agronomy*, **2022**, 12, 1030	3.6	2
10	Diversity and physiological plasticity of vegetable genotypes of coriander improves herb yield, habit and harvesting window in any season. *Euphytica*, **2011**, 180, 369-384	2.1	1
9	Salt Tolerance in the Halophyte Suaeda maritima L. Dum.□he Effect of Oxygen Supply and Culture Medium on Growth. *Journal of Soil Science and Plant Nutrition*, **2021**, 21, 578-586	3.2	1
8	Evolution in Angiosperm Halophytes **2021**, 1-30		1
7	ZxNHX1 indirectly participates in controlling K homeostasis in the xerophyte Zygophyllum xanthoxylum. *Functional Plant Biology*, **2021**, 48, 402-410	2.7	1
6	Dynamic Responses of the Halophyte Suaeda maritima to Various Levels of External NaCl Concentration **2020**, 1-22		0
5	Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity **2021**, 1351-1393		0
4	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
3	Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity **2020**, 1-44		
2	Dynamic Responses of the Halophyte Suaeda maritima to Various Levels of External NaCl Concentration **2021**, 1637-1657		

1 Evolution in Angiosperm Halophytes **2021**, 2117-2146