Stuart J Roy

List of Publications by Year in Descending Order

42 papers	3,186 citations	24 h-index	47 g-index
47 ext. papers	3,946 ext. citations	6.1 avg, IF	5.4 L-index

#	Paper	IF	Citations
42	Identifying the genetic control of salinity tolerance in the bread wheat landrace Mocho de Espiga Branca. *Functional Plant Biology*, **2021**, 48, 1148-1160	2.7	1
41	Proton-pumping pyrophosphatase homeolog expression is a dynamic trait in bread wheat (). *Plant Direct*, **2021**, 5, e354	3.3	
40	Identification of salt tolerance QTL in a wheat RIL mapping population using destructive and non-destructive phenotyping. *Functional Plant Biology*, **2021**, 48, 131-140	2.7	9
39	Barley sodium content is regulated by natural variants of the Na transporter HvHKT1;5. *Communications Biology*, **2020**, 3, 258	6.7	12
38	A single nucleotide substitution in TaHKT1;5-D controls shoot Na accumulation in bread wheat. *Plant, Cell and Environment*, **2020**, 43, 2158-2171	8.4	11
37	Energy costs of salt tolerance in crop plants. *New Phytologist*, **2020**, 225, 1072-1090	9.8	144
36	Improved Yield and Photosynthate Partitioning in AVP1 Expressing Wheat () Plants. *Frontiers in Plant Science*, **2020**, 11, 273	6.2	6
35	Opportunities for Developing Salt-tolerant Wheat and Barley Varieties **2019**, 157-218		1
34	Increasing Salinity Tolerance of Crops **2019**, 245-267		1
33	Transcriptional variation is associated with differences in shoot sodium accumulation in distinct barley varieties. *Environmental and Experimental Botany*, **2019**, 166, 103812	5.9	2
32	High-throughput 3D modelling to dissect the genetic control of leaf elongation in barley (Hordeum vulgare). *Plant Journal*, **2019**, 98, 555-570	6.9	9
31	Mapping of novel salt tolerance QTL in an Excalibur Kukri doubled haploid wheat population. *Theoretical and Applied Genetics*, **2018**, 131, 2179-2196	6	39
30	AVP1: One Protein, Many Roles. *Trends in Plant Science*, **2017**, 22, 154-162	13.1	47
29	Translating knowledge about abiotic stress tolerance to breeding programmes. *Plant Journal*, **2017**, 90, 898-917	6.9	97
28	Genetics of Na exclusion and salinity tolerance in Afghani durum wheat landraces. *BMC Plant Biology*, **2017**, 17, 209	5.3	25
27	Variation in shoot tolerance mechanisms not related to ion toxicity in barley. *Functional Plant Biology*, **2017**, 44, 1194-1206	2.7	23
26	Expressing Arabidopsis thaliana V-ATPase subunit C in barley (Hordeum vulgare) improves plant performance under saline condition by enabling better osmotic adjustment. *Functional Plant Biology*, **2017**, 44, 1147-1159	2.7	15

25	Identification of a Stelar-Localized Transport Protein That Facilitates Root-to-Shoot Transfer of Chloride in Arabidopsis. *Plant Physiology*, **2016**, 170, 1014-29	6.6	66
24	Modulates Chloride (Cl) Efflux from Roots of. *Frontiers in Plant Science*, **2016**, 7, 2013	6.2	36
23	SLAH1, a homologue of the slow type anion channel SLAC1, modulates shoot Cl- accumulation and salt tolerance in Arabidopsis thaliana. *Journal of Experimental Botany*, **2016**, 67, 4495-505	7	51
22	The evolutionary origin of CIPK16: A gene involved in enhanced salt tolerance. *Molecular Phylogenetics and Evolution*, **2016**, 100, 135-147	4.1	6
21	Expressing AtNHX1 in barley (Hordium vulgare L.) does not improve plant performance under saline conditions. *Plant Growth Regulation*, **2015**, 77, 289-297	3.2	20
20	Different NaCl-induced calcium signatures in the Arabidopsis thaliana ecotypes Col-0 and C24. *PLoS ONE*, **2015**, 10, e0117564	3.7	15
19	The role of the CBL□CIPK calcium signalling network in regulating ion transport in response to abiotic stress. *Plant Growth Regulation*, **2015**, 76, 3-12	3.2	41
18	Comparison of Leaf Sheath Transcriptome Profiles with Physiological Traits of Bread Wheat Cultivars under Salinity Stress. *PLoS ONE*, **2015**, 10, e0133322	3.7	26
17	Salinity tolerance **2014**, 133-178		6
16	Salt resistant crop plants. *Current Opinion in Biotechnology*, **2014**, 26, 115-24	11.4	630
15	Expression of the Arabidopsis vacuolar H+-pyrophosphatase gene (AVP1) improves the shoot biomass of transgenic barley and increases grain yield in a saline field. *Plant Biotechnology Journal*, **2014**, 12, 378-86	11.6	110
14	Image-based phenotyping for non-destructive screening of different salinity tolerance traits in rice. *Rice*, **2014**, 7, 16	5.8	110
13	Evaluating contribution of ionic, osmotic and oxidative stress components towards salinity tolerance in barley. *BMC Plant Biology*, **2014**, 14, 113	5.3	118
12	HVP10 encoding V-PPase is a prime candidate for the barley HvNax3 sodium exclusion gene: evidence from fine mapping and expression analysis. *Planta*, **2013**, 237, 1111-22	4.7	31
11	A novel protein kinase involved in Na(+) exclusion revealed from positional cloning. *Plant, Cell and Environment*, **2013**, 36, 553-68	8.4	60
10	Transcriptomics on small samples. *Methods in Molecular Biology*, **2012**, 913, 335-50	1.4	2
9	Genetic analysis of abiotic stress tolerance in crops. *Current Opinion in Plant Biology*, **2011**, 14, 232-9	9.9	187
8	Accurate inference of shoot biomass from high-throughput images of cereal plants. *Plant Methods*, **2011**, 7, 2	5.8	194

7	Variation in salinity tolerance and shoot sodium accumulation in Arabidopsis ecotypes linked to differences in the natural expression levels of transporters involved in sodium transport. *Plant, Cell and Environment*, **2010**, 33, 793-804	8.4	84
6	Improved salinity tolerance of rice through cell type-specific expression of AtHKT1;1. *PLoS ONE*, **2010**, 5, e12571	3.7	106
5	Shoot Na+ exclusion and increased salinity tolerance engineered by cell type-specific alteration of Na+ transport in Arabidopsis. *Plant Cell*, **2009**, 21, 2163-78	11.6	387
4	Quantifying the three main components of salinity tolerance in cereals. *Plant, Cell and Environment*, **2009**, 32, 237-49	8.4	307
3	Investigating glutamate receptor-like gene co-expression in Arabidopsis thaliana. *Plant, Cell and Environment*, **2008**, 31, 861-71	8.4	95
2	Nanolitre-scale assays to determine the activities of enzymes in individual plant cells. *Plant Journal*, **2003**, 34, 555-64	6.9	13
1	A single nucleotide substitution in TaHKT1;5-D controls shoot Na+ accumulation in bread wheat		3