Devrim Coskun

List of Publications by Year
in descending order

25 papers	2,450 citations	394421 19 h-index	580821 25 g-index
26 all docs	26 docs citations	26 times ranked	3005 citing authors

#	Article	IF	Citations
1	Lsi2: A black box in plant silicon transport. Plant and Soil, 2021, 466, 1-20.	3.7	22
2	Potassium physiology from Archean to Holocene: A higher-plant perspective. Journal of Plant Physiology, 2021, 262, 153432.	3.5	21
3	Root-Apex Proton Fluxes at the Centre of Soil-Stress Acclimation. Trends in Plant Science, 2020, 25, 794-804.	8.8	35
4	The controversies of silicon's role in plant biology. New Phytologist, 2019, 221, 67-85.	7.3	439
5	Si permeability of a deficient Lsi1 aquaporin in tobacco can be enhanced through a conserved residue substitution. Plant Direct, 2019, 3, e00163.	1.9	16
6	In defence of the selective transport and role of silicon in plants. New Phytologist, 2019, 223, 514-516.	7.3	9
7	Plasma-membrane electrical responses to salt and osmotic gradients contradict radiotracer kinetics, and reveal Na+-transport dynamics in rice (Oryza sativa L.). Planta, 2019, 249, 1037-1051.	3.2	10
8	Membrane fluxes, bypass flows, and sodium stress in rice: the influence of silicon. Journal of Experimental Botany, 2018, 69, 1679-1692.	4.8	102
9	The nitrogenâ€“potassium intersection: membranes, metabolism, and mechanism. Plant, Cell and Environment, 2017, 40, 2029-2041.	5.7	99
10	How Plant Root Exudates Shape the Nitrogen Cycle. Trends in Plant Science, 2017, 22, 661-673.	8.8	322
11	Nitrogen transformations in modern agriculture and the role of biological nitrification inhibition. Nature Plants, 2017, 3, 17074.	9.3	376
12	The Role of Silicon in Higher Plants under Salinity and Drought Stress. Frontiers in Plant Science, 2016, 7, 1072.	3.6	259
13	Nutrient constraints on terrestrial carbon fixation: The role of nitrogen. Journal of Plant Physiology, 2016, 203, 95-109.	3.5	38
14	How high do ion fluxes go? A re-evaluation of the two-mechanism model of K + transport in plant roots. Plant Science, 2016, 243, 96-104.	3.6	21
15	The physiology of channelâ€mediated K⁺ acquisition in roots of higher plants. Physiologia Plantarum, 2014, 151, 305-312.	5.2	24
16	Potassium and nitrogen poising: Physiological changes and biomass gains in rice and barley. Canadian Journal of Plant Science, 2014, 94, 1085-1089.	0.9	19
17	Measuring Fluxes of Mineral Nutrients and Toxicants in Plants with Radioactive Tracers. Journal of Visualized Experiments, 2014, , .	0.3	4
18	Sodium as nutrient and toxicant. Plant and Soil, 2013, 369, 1-23.	3.7	289

#	Article	IF	Citations
19	Capacity and Plasticity of Potassium Channels and High-Affinity Transporters in Roots of Barley and Arabidopsis Â Â. Plant Physiology, 2013, 162, 496-511.	4.8	59
20	Rapid Ammonia Gas Transport Accounts for Futile Transmembrane Cycling under NH3/NH4 Â+ Toxicity in Plant Roots Â Â. Plant Physiology, 2013, 163, 1859-1867.	4.8	95
21	Complexity of potassium acquisition: How much flows through channels?. Plant Signaling and Behavior, 2013, 8, e24799.	2.4	6
22	K+ Efflux and Retention in Response to NaCl Stress Do Not Predict Salt Tolerance in Contrasting Genotypes of Rice (Oryza sativa L.). PLoS ONE, 2013, 8, e57767.	2.5	46
23	Silver ions disrupt K+ homeostasis and cellular integrity in intact barley (Hordeum vulgare L.) roots. Journal of Experimental Botany, 2012, 63, 151-162.	4.8	40
24	⁴²K analysis of sodiumâ€induced potassium efflux in barley: mechanism and relevance to salt tolerance. New Phytologist, 2010, 186, 373-384.	7.3	56
25	Regulation and mechanism of potassium release from barley roots: an <i>in planta</i>⁴²K⁺ analysis. New Phytologist, 2010, 188, 1028-1038.	7.3	41