Edgar Peiter

List of Publications by Year
in descending order

47 papers	3,923 citations	201674 27 h-index	223800 46 g-index
49 all docs	49 docs citations	49 times ranked	4838 citing authors

#	Article	IF	Citations
1	Potassium in agriculture â€" Status and perspectives. Journal of Plant Physiology, 2014, 171, 656-669.	3.5	725
2	The vacuolar Ca2+-activated channel TPC1 regulates germination and stomatal movement. Nature, 2005, 434, 404-408.	27.8	490
3	Manganese in Plants: From Acquisition to Subcellular Allocation. Frontiers in Plant Science, 2020, 11, 300.	3.6	367
4	Trace metal metabolism in plants. Journal of Experimental Botany, 2018, 69, 909-954.	4.8	282
5	A secretory pathway-localized cation diffusion facilitator confers plant manganese tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8532-8537.	7.1	250
6	The Vacuolar Manganese Transporter MTP8 Determines Tolerance to Iron Deficiency-Induced Chlorosis in Arabidopsis. Plant Physiology, 2016, 170, 1030-1045.	4.8	166
7	Systemic cytosolic Ca²⁺ elevation is activated upon wounding and herbivory in Arabidopsis. New Phytologist, 2015, 207, 996-1004.	7.3	158
8	Newly characterized Golgi-localized family of proteins is involved in calcium and pH homeostasis in yeast and human cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6859-6864.	7.1	129
9	The plant vacuole: Emitter and receiver of calcium signals. Cell Calcium, 2011, 50, 120-128.	2.4	121
10	The <i>Medicago truncatula</i> DMI1 Protein Modulates Cytosolic Calcium Signaling. Plant Physiology, 2007, 145, 192-203.	4.8	99
11	Metal Tolerance Protein 8 Mediates Manganese Homeostasis and Iron Reallocation during Seed Development and Germination. Plant Physiology, 2017, 174, 1633-1647.	4.8	99
12	Cytosolic calcium signals elicited by the pathogenâ€associated molecular pattern flg22 in stomatal guard cells are of an oscillatory nature. New Phytologist, 2014, 204, 873-881.	7.3	80
13	The Tomato Mitogen-Activated Protein Kinase SlMPK1 Is as a Negative Regulator of the High-Temperature Stress Response. Plant Physiology, 2018, 177, 633-651.	4.8	80
14	TheSaccharomyces cerevisiaeCa2+channel Cch1pMid1p is essential for tolerance to cold stress and iron toxicity. FEBS Letters, 2005, 579, 5697-5703.	2.8	65
15	Getting the most out of publicly available Tâ€DNA insertion lines. Plant Journal, 2008, 56, 665-677.	5.7	56
16	Chloroplastâ€localized BICAT proteins shape stromal calcium signals and are required for efficient photosynthesis. New Phytologist, 2019, 221, 866-880.	7.3	47
17	Transport, functions, and interaction of calcium and manganese in plant organellar compartments. Plant Physiology, 2021, 187, 1940-1972.	4.8	47
18	ScGAI is a key regulator of culm development in sugarcane. Journal of Experimental Botany, 2018, 69, 3823-3837.	4.8	46

#	Article	IF	Citations
19	Chemical composition and ultrastructure of broad bean (Vicia faba L.) nodule endodermis in comparison to the root endodermis. Planta, 2002, 215, 14-25.	3.2	44
20	Re-evaluation of the yield response to phosphorus fertilization based on meta-analyses of long-term field experiments. Ambio, 2018, 47, 50-61.	5.5	42
21	The nuclear protein Poly(<scp>ADP</scp>â€‘ribose) polymerase 3 (At<scp>PARP</scp>3) is required for seed storability in <i>Arabidopsis thaliana</i>. Plant Biology, 2014, 16, 1058-1064.	3.8	39
22	No Silver Bullet â€“ Canonical Poly(ADP-Ribose) Polymerases (PARPs) Are No Universal Factors of Abiotic and Biotic Stress Resistance of Arabidopsis thaliana. Frontiers in Plant Science, 2017, 08, 59.	3.6	37
23	Root-Associated Bacterial and Fungal Community Profiles of <i>Arabidopsis thaliana</i> Are Robust Across Contrasting Soil P Levels. Phytobiomes Journal, 2018, 2, 24-34.	2.7	37
24	Calcium Transport Proteins in Fungi: The Phylogenetic Diversity of Their Relevance for Growth, Virulence, and Stress Resistance. Frontiers in Microbiology, 2019, 10, 3100.	3.5	35
25	The plasma membrane protein Rch1 is a negative regulator of cytosolic calcium homeostasis and positively regulated by the calcium/calcineurin signaling pathway in budding yeast. European Journal of Cell Biology, 2016, 95, 164-174.	3.6	34
26	â€œWild barley serves as a source for biofortification of barley grainsâ€. Plant Science, 2019, 283, 83-94.	3.6	33
27	Poly(ADP-Ribose) Polymerases in Plants and Their Human Counterparts: Parallels and Peculiarities. International Journal of Molecular Sciences, 2019, 20, 1638.	4.1	32
28	Functional structure of the indeterminate Vicia faba L. root nodule: implications for metabolite transport. Journal of Plant Physiology, 2000, 157, 335-343.	3.5	31
29	Lime-induced growth depression inLupinus species: Are soil pH and bicarbonate involved?. Journal of Plant Nutrition and Soil Science, 2001, 164, 165-172.	1.9	26
30	Sugar uptake and proton release by protoplasts from the infected zone of Vicia faba L. nodules: evidence against apoplastic sugar supply of infected cells. Journal of Experimental Botany, 2003, 54, 1691-1700.	4.8	25
31	ANNEXIN1 mediates calciumâ€‘dependent systemic defense in Arabidopsis plants upon herbivory and wounding. New Phytologist, 2021, 231, 243-254.	7.3	25
32	Quantity and distribution of arbuscular mycorrhizal fungal storage organs within dead roots. Mycorrhiza, 2017, 27, 201-210.	2.8	23
33	Thresholds of target phosphorus fertility classes in European fertilizer recommendations in relation to critical soil test phosphorus values derived from the analysis of 55 European long-term field experiments. Agriculture, Ecosystems and Environment, 2022, 332, 107926.	5.3	21
34	Yield formation of five crop species under water shortage and differential potassium supply. Journal of Plant Nutrition and Soil Science, 2016, 179, 234-243.	1.9	17
35	Amino acid export from infected cells of Vicia faba root nodules: Evidence for an apoplastic step in the infected zone. Physiologia Plantarum, 2004, 122, 107-114.	5.2	13
36	Overexpression of <i>METAL TOLERANCE PROTEIN8</i> reveals new aspects of metal transport in <i>Arabidopsis thaliana</i> seeds. Plant Biology, 2022, 24, 23-29.	3.8	13

#	Article	IF	Citations
37	Are mineral nutrients a critical factor for lime intolerance of lupins?. Journal of Plant Nutrition, 2000, 23, 617-635.	1.9	11
38	A novel procedure for gentle isolation and separation of intact infected and uninfected protoplasts from the central tissue of Vicia faba L. root nodules. Plant, Cell and Environment, 2003, 26, 1117-1126.	5.7	11
39	The Ever-Closer Union of Signals: Propagating Waves of Calcium and ROS Are Inextricably Linked. Plant Physiology, 2016, 172, 3-4.	4.8	11
40	The Transient Receptor Potential (TRP) Channel Family in Colletotrichum graminicola: A Molecular and Physiological Analysis. PLoS ONE, 2016, 11, e0158561.	2.5	11
41	Membrane-assisted culture of fungal mycelium on agar plates for RNA extraction and pharmacological analyses. Analytical Biochemistry, 2014, 453, 58-60.	2.4	9
42	Cytosolic free calcium dynamics as related to hyphal and colony growth in the filamentous fungal pathogen Colletotrichum graminicola. Fungal Genetics and Biology, 2016, 91, 55-65.	2.1	9
43	A path toward concurrent biofortification and cadmium mitigation in plantâ€based foods. New Phytologist, 2021, 232, 17-24.	7.3	9
44	The equivalence of the Calcium-Acetate-Lactate and Double-Lactate extraction methods to assess soil phosphorus fertility. Journal of Plant Nutrition and Soil Science, 2018, 181, 795-801.	1.9	7
45	A modular plasmid system for protein co-localization and bimolecular fluorescence complementation in filamentous fungi. Current Genetics, 2014, 60, 343-350.	1.7	6
46	A yeast growth assay to characterize plant poly(ADP-ribose) polymerase (PARP) proteins and inhibitors. Analytical Biochemistry, 2017, 527, 20-23.	2.4	3
47	Mitteilungen der Deutschen Bodenkundlichen Gesellschaft 6/2018. Journal of Plant Nutrition and Soil Science, 2018, 181, 966-967.	1.9	0