Won-Gyu Choi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2448903/publications.pdf

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24	2,842	448610	685536
papers	citations	19 h-index	24 g-index

25	25	25	4028
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Arabidopsis Ca2+-ATPases 1, 2, and 7 in the endoplasmic reticulum contribute to growth and pollen fitness. Plant Physiology, 2021, 185, 1966-1985.	2.3	24
2	Recapitulation of the Function and Role of ROS Generated in Response to Heat Stress in Plants. Plants, 2021, 10, 371.	1.6	69
3	Aquaporin family lactic acid channel NIP2;1 promotes plant survival under low oxygen stress in Arabidopsis. Plant Physiology, 2021, 187, 2262-2278.	2.3	16
4	A Ratiometric Calcium Reporter CGf Reveals Calcium Dynamics Both in the Single Cell and Whole Plant Levels Under Heat Stress. Frontiers in Plant Science, 2021, 12, 777975.	1.7	10
5	Laying the Foundation for Crassulacean Acid Metabolism (CAM) Biodesign: Expression of the C4 Metabolism Cycle Genes of CAM in Arabidopsis. Frontiers in Plant Science, 2019, 10, 101.	1.7	45
6	Quantitative ROS bioreporters: A robust toolkit for studying biological roles of ROS in response to abiotic and biotic stresses. Physiologia Plantarum, 2019, 165, 356-368.	2.6	24
7	Variation in the transcriptome of different ecotypes of Arabidopsis thaliana reveals signatures of oxidative stress in plant responses to spaceflight. American Journal of Botany, 2019, 106, 123-136.	0.8	57
8	Plants eavesdrop on cues produced by snails and induce costly defenses that affect insect herbivores. Oecologia, 2018, 186, 703-710.	0.9	14
9	Nodulin Intrinsic Protein 7;1 Is a Tapetal Boric Acid Channel Involved in Pollen Cell Wall Formation. Plant Physiology, 2018, 178, 1269-1283.	2.3	39
10	Sense and sensibility: the use of fluorescent protein-based genetically encoded biosensors in plants. Current Opinion in Plant Biology, 2018, 46, 32-38.	3.5	59
11	Orchestrating rapid longâ€distance signaling in plants with Ca²⁺, <scp>ROS</scp> and electrical signals. Plant Journal, 2017, 90, 698-707.	2.8	250
12	A ROS-Assisted Calcium Wave Dependent on the AtRBOHD NADPH Oxidase and TPC1 Cation Channel Propagates the Systemic Response to Salt Stress. Plant Physiology, 2016, 171, 1771-1784.	2.3	231
13	Rapid, Long-Distance Electrical and Calcium Signaling in Plants. Annual Review of Plant Biology, 2016, 67, 287-307.	8.6	277
14	Development of Equipment that Uses Far-Red Light to Impose Seed Dormancy in Arabidopsis for Spaceflight. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2016, 4, 8-19.	0.3	3
15	Salt stress-induced Ca ²⁺ waves are associated with rapid, long-distance root-to-shoot signaling in plants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6497-6502.	3.3	558
16	A tidal wave of signals: calcium and ROS at the forefront of rapid systemic signaling. Trends in Plant Science, 2014, 19, 623-630.	4.3	478
17	Plant biologists FRET over stress. ELife, 2014, 3, e02763.	2.8	5
18	Highâ€resolution imaging of Ca²⁺, redox status, ROS and pH using GFP biosensors. Plant Journal, 2012, 70, 118-128.	2.8	79

#	Article	IF	Citations
19	In Vivo Imaging of Ca²⁺, pH, and Reactive Oxygen Species Using Fluorescent Probes in Plants. Annual Review of Plant Biology, 2011, 62, 273-297.	8.6	156
20	Arabidopsis thalianaNIP7;1: An Anther-Specific Boric Acid Transporter of the Aquaporin Superfamily Regulated by an Unusual Tyrosine in Helix 2 of the Transport Pore. Biochemistry, 2011, 50, 6633-6641.	1.2	78
21	Arabidopsis NIP2;1, a Major Intrinsic Protein Transporter of Lactic Acid Induced by Anoxic Stress. Journal of Biological Chemistry, 2007, 282, 24209-24218.	1.6	157
22	The structure, function and regulation of the nodulin 26-like intrinsic protein family of plant aquaglyceroporins. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1165-1175.	1.4	159
23	Cloning and Characterization of a Rice cDNA Encoding Glutamate Decarboxylase. BMB Reports, 2005, 38, 595-601.	1.1	19
24	Changes in the Levels of Î³-Aminobutyric Acid and Glutamate Decarboxylase in Developing Soybean Seedlings. Journal of Plant Research, 2001, 114, 309-313.	1.2	35