

# Won-Gyu Choi

## List of Publications by Year in descending order

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

Version: 2024-02-01

24  
papers

2,842  
citations

394390  
19  
h-index

610883  
24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis Ca <sup>2+</sup> -ATPases 1, 2, and 7 in the endoplasmic reticulum contribute to growth and pollen fitness. <i>Plant Physiology</i> , 2021, 185, 1966-1985.	4.8	24
2	Recapitulation of the Function and Role of ROS Generated in Response to Heat Stress in Plants. <i>Plants</i> , 2021, 10, 371.	3.5	69
3	Aquaporin family lactate channel NIP2;1 promotes plant survival under low oxygen stress in Arabidopsis. <i>Plant Physiology</i> , 2021, 187, 2262-2278.	4.8	16
4	A Ratiometric Calcium Reporter CGf Reveals Calcium Dynamics Both in the Single Cell and Whole Plant Levels Under Heat Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 777975.	3.6	10
5	Laying the Foundation for Crassulacean Acid Metabolism (CAM) Biodesign: Expression of the C4 Metabolism Cycle Genes of CAM in Arabidopsis. <i>Frontiers in Plant Science</i> , 2019, 10, 101.	3.6	45
6	Quantitative ROS bioreporters: A robust toolkit for studying biological roles of ROS in response to abiotic and biotic stresses. <i>Physiologia Plantarum</i> , 2019, 165, 356-368.	5.2	24
7	Variation in the transcriptome of different ecotypes of <i>Arabidopsis thaliana</i> reveals signatures of oxidative stress in plant responses to spaceflight. <i>American Journal of Botany</i> , 2019, 106, 123-136.	1.7	57
8	Plants eavesdrop on cues produced by snails and induce costly defenses that affect insect herbivores. <i>Oecologia</i> , 2018, 186, 703-710.	2.0	14
9	Nodulin Intrinsic Protein 7;1 Is a Tapetal Boric Acid Channel Involved in Pollen Cell Wall Formation. <i>Plant Physiology</i> , 2018, 178, 1269-1283.	4.8	39
10	Sense and sensibility: the use of fluorescent protein-based genetically encoded biosensors in plants. <i>Current Opinion in Plant Biology</i> , 2018, 46, 32-38.	7.1	59
11	Orchestrating rapid long-distance signaling in plants with Ca <sup>2+</sup> , ROS and electrical signals. <i>Plant Journal</i> , 2017, 90, 698-707.	5.7	250
12	A ROS-Assisted Calcium Wave Dependent on the AtRBOHD NADPH Oxidase and TPC1 Cation Channel Propagates the Systemic Response to Salt Stress. <i>Plant Physiology</i> , 2016, 171, 1771-1784.	4.8	231
13	Rapid, Long-Distance Electrical and Calcium Signaling in Plants. <i>Annual Review of Plant Biology</i> , 2016, 67, 287-307.	18.7	277
14	Development of Equipment that Uses Far-Red Light to Impose Seed Dormancy in Arabidopsis for Spaceflight. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2016, 4, 8-19.	0.8	3
15	Salt stress-induced Ca <sup>2+</sup> waves are associated with rapid, long-distance root-to-shoot signaling in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6497-6502.	7.1	558
16	A tidal wave of signals: calcium and ROS at the forefront of rapid systemic signaling. <i>Trends in Plant Science</i> , 2014, 19, 623-630.	8.8	478
17	Plant biologists FRET over stress. <i>ELife</i> , 2014, 3, e02763.	6.0	5
18	High-resolution imaging of Ca <sup>2+</sup> , redox status, ROS and pH using GFP biosensors. <i>Plant Journal</i> , 2012, 70, 118-128.	5.7	79

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19	In Vivo Imaging of Ca <sup>2+</sup> , pH, and Reactive Oxygen Species Using Fluorescent Probes in Plants. Annual Review of Plant Biology, 2011, 62, 273-297.	18.7	156
20	<i>Arabidopsis thaliana</i> NIP7;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.	2.5	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.	3.4	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.	2.6	159
23	Cloning and Characterization of a Rice cDNA Encoding Glutamate Decarboxylase. BMB Reports, 2005, 38, 595-601.	2.4	19
24	Changes in the Levels of $\gamma$ -Aminobutyric Acid and Glutamate Decarboxylase in Developing Soybean Seedlings. Journal of Plant Research, 2001, 114, 309-313.	2.4	35