Rainer Waadt

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5636700/publications.pdf

Version: 2024-02-01

34 papers	4,655 citations	218592 26 h-index	377752 34 g-index
37 all docs	37 docs citations	37 times ranked	5823 citing authors

#	Article	IF	Citations
1	Multicolor bimolecular fluorescence complementation reveals simultaneous formation of alternative CBL/CIPK complexes in planta. Plant Journal, 2008, 56, 505-516.	2.8	652
2	Mechanisms of abscisic acid-mediated control of stomatal aperture. Current Opinion in Plant Biology, 2015, 28, 154-162.	3.5	438
3	Evolution of Abscisic Acid Synthesis and Signaling Mechanisms. Current Biology, 2011, 21, R346-R355.	1.8	425
4	The calcium sensor CBL10 mediates salt tolerance by regulating ion homeostasis in Arabidopsis. Plant Journal, 2007, 52, 473-484.	2.8	333
5	Plant hormone regulation of abiotic stress responses. Nature Reviews Molecular Cell Biology, 2022, 23, 680-694.	16.1	279
6	New GATEWAY vectors for High Throughput Analyses of Proteinâ€“Protein Interactions by Bimolecular Fluorescence Complementation. Molecular Plant, 2009, 2, 1051-1058.	3.9	278
7	CBL-mediated targeting of CIPKs facilitates the decoding of calcium signals emanating from distinct cellular stores. Plant Journal, 2010, 61, 211-222.	2.8	228
8	FRET-based reporters for the direct visualization of abscisic acid concentration changes and distribution in Arabidopsis. ELife, 2014, 3, e01739.	2.8	213
9	In Planta Visualization of Protein Interactions Using Bimolecular Fluorescence Complementation (BiFC). Cold Spring Harbor Protocols, 2008, 2008, pdb.prot4995.	0.2	193
10	Phosphorylation of Calcineurin B-like (CBL) Calcium Sensor Proteins by Their CBL-interacting Protein Kinases (CIPKs) Is Required for Full Activity of CBL-CIPK Complexes toward Their Target Proteins. Journal of Biological Chemistry, 2012, 287, 7956-7968.	1.6	179
11	Calcium specificity signaling mechanisms in abscisic acid signal transduction in Arabidopsis guard cells. ELife, 2015, 4, .	2.8	172
12	Live Cell Imaging with R-GECO1 Sheds Light on flg22- and Chitin-Induced Transient [Ca 2+] cyt Patterns in Arabidopsis. Molecular Plant, 2015, 8, 1188-1200.	3.9	150
13	SnapShot: Abscisic Acid Signaling. Cell, 2017, 171, 1708-1708.e0.	13.5	109
14	Multiparameter imaging of calcium and abscisic acid and highâ€resolution quantitative calcium measurements using Râ€GECO1â€mTurquoise in Arabidopsis. New Phytologist, 2017, 216, 303-320.	3.5	105
15	Genetically Encoded Biosensors in Plants: Pathways to Discovery. Annual Review of Plant Biology, 2018, 69, 497-524.	8.6	103
16	Identification of Open Stomata1-Interacting Proteins Reveals Interactions with Sucrose Non-fermenting1-Related Protein Kinases2 and with Type 2A Protein Phosphatases That Function in Abscisic Acid Responses. Plant Physiology, 2015, 169, 760-779.	2.3	100
17	Abscisic acid-independent stomatal CO ₂ signal transduction pathway and convergence of CO ₂ and ABA signaling downstream of OST1 kinase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9971-E9980.	3.3	91
18	Sulfate is Incorporated into Cysteine to Trigger ABA Production and Stomatal Closure. Plant Cell, 2018, 30, 2973-2987.	3.1	85

#	Article	IF	Citations
19	Wounding-Induced Stomatal Closure Requires Jasmonate-Mediated Activation of GORK K+ Channels by a Ca2+ Sensor-Kinase CBL1-CIPK5 Complex. Developmental Cell, 2019, 48, 87-99.e6.	3.1	74
20	A New Î²-Estradiol-Inducible Vector Set that Facilitates Easy Construction and Efficient Expression of Transgenes Reveals CBL3-Dependent Cytoplasm to Tonoplast Translocation of CIPK5. Molecular Plant, 2013, 6, 1814-1829.	3.9	66
21	Calcium signals in guard cells enhance the efficiency by which abscisic acid triggers stomatal closure. New Phytologist, 2019, 224, 177-187.	3.5	62
22	Dual-Reporting Transcriptionally Linked Genetically Encoded Fluorescent Indicators Resolve the Spatiotemporal Coordination of Cytosolic Abscisic Acid and Second Messenger Dynamics in Arabidopsis. Plant Cell, 2020, 32, 2582-2601.	3.1	57
23	Release of GTP Exchange Factor Mediated Down-Regulation of Abscisic Acid Signal Transduction through ABA-Induced Rapid Degradation of RopGEFs. PLoS Biology, 2016, 14, e1002461.	2.6	45
24	Abscisic acid and other plant hormones: Methods to visualize distribution and signaling. BioEssays, 2015, 37, 1338-1349.	1.2	41
25	Cytosolic Ca2+ Signals Enhance the Vacuolar Ion Conductivity of Bulging Arabidopsis Root Hair Cells. Molecular Plant, 2015, 8, 1665-1674.	3.9	33
26	Phytohormone signaling mechanisms and genetic methods for their modulation and detection. Current Opinion in Plant Biology, 2020, 57, 31-40.	3.5	31
27	Protein Fragment Bimolecular Fluorescence Complementation Analyses for the In vivo Study of Protein-Protein Interactions and Cellular Protein Complex Localizations. Methods in Molecular Biology, 2014, 1062, 629-658.	0.4	30
28	Molecular mechanisms of stomatal closure in response to rising vapour pressure deficit. New Phytologist, 2021, 232, 468-475.	3.5	26
29	Visualization and translocation of ternary Calcineurinâ€A/Calcineurinâ€B/Calmodulinâ€2 protein complexes by dualâ€color trimolecular fluorescence complementation. New Phytologist, 2015, 208, 269-279.	3.5	19
30	Modulation of ABA responses by the protein kinase WNK8. FEBS Letters, 2019, 593, 339-351.	1.3	10
31	Multiparameter in vivo imaging in plants using genetically encoded fluorescent indicator multiplexing. Plant Physiology, 2021, 187, 537-549.	2.3	9
32	Plant Immune Memory in Systemic Tissue Does Not Involve Changes in Rapid Calcium Signaling. Frontiers in Plant Science, 2021, 12, 798230.	1.7	9
33	Plant hormones: On-the-spot reporting. Nature Plants, 2015, 1, 15001.	4.7	5
34	Live Imaging of Abscisic Acid Dynamics Using Genetically Encoded Fluorescence Resonance Energy Transfer (FRET)-Based ABA Biosensors. Methods in Molecular Biology, 2022, 2462, 135-154.	0.4	2