Rainer Waadt

List of Publications by Year
in descending order

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Version: 2024-02-01

34 papers	4,655 citations	218381 26 h-index	377514 34 g-index
37 all docs	37 docs citations	37 times ranked	5823 citing authors

#	Article	IF	Citations
1	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
2	Plant hormone regulation of abiotic stress responses. Nature Reviews Molecular Cell Biology, 2022, 23, 680-694.	16.1	279
3	Molecular mechanisms of stomatal closure in response to rising vapour pressure deficit. New Phytologist, 2021, 232, 468-475.	3.5	26
4	Multiparameter in vivo imaging in plants using genetically encoded fluorescent indicator multiplexing. Plant Physiology, 2021, 187, 537-549.	2.3	9
5	Plant Immune Memory in Systemic Tissue Does Not Involve Changes in Rapid Calcium Signaling. Frontiers in Plant Science, 2021, 12, 798230.	1.7	9
6	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
7	Phytohormone signaling mechanisms and genetic methods for their modulation and detection. Current Opinion in Plant Biology, 2020, 57, 31-40.	3.5	31
8	Calcium signals in guard cells enhance the efficiency by which abscisic acid triggers stomatal closure. New Phytologist, 2019, 224, 177-187.	3.5	62
9	Modulation of ABA responses by the protein kinase WNK8. FEBS Letters, 2019, 593, 339-351.	1.3	10
10	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
11	Genetically Encoded Biosensors in Plants: Pathways to Discovery. Annual Review of Plant Biology, 2018, 69, 497-524.	8.6	103
12	Sulfate is Incorporated into Cysteine to Trigger ABA Production and Stomatal Closure. Plant Cell, 2018, 30, 2973-2987.	3.1	85
13	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
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	SnapShot: Abscisic Acid Signaling. Cell, 2017, 171, 1708-1708.e0.	13.5	109
16	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
17	Plant hormones: On-the-spot reporting. Nature Plants, 2015, 1, 15001.	4.7	5
18	Abscisic acid and other plant hormones: Methods to visualize distribution and signaling. BioEssays, 2015, 37, 1338-1349.	1.2	41

#	Article	IF	Citations
19	Calcium specificity signaling mechanisms in abscisic acid signal transduction in Arabidopsis guard cells. ELife, 2015, 4, .	2.8	172
20	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
21	Cytosolic Ca2+ Signals Enhance the Vacuolar Ion Conductivity of Bulging Arabidopsis Root Hair Cells. Molecular Plant, 2015, 8, 1665-1674.	3.9	33
22	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
23	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
24	Mechanisms of abscisic acid-mediated control of stomatal aperture. Current Opinion in Plant Biology, 2015, 28, 154-162.	3.5	438
25	FRET-based reporters for the direct visualization of abscisic acid concentration changes and distribution in Arabidopsis. ELife, 2014, 3, e01739.	2.8	213
26	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
27	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
28	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
29	Evolution of Abscisic Acid Synthesis and Signaling Mechanisms. Current Biology, 2011, 21, R346-R355.	1.8	425
30	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
31	New GATEWAY vectors for High Throughput Analyses of Proteinâ€“Protein Interactions by Bimolecular Fluorescence Complementation. Molecular Plant, 2009, 2, 1051-1058.	3.9	278
32	Multicolor bimolecular fluorescence complementation reveals simultaneous formation of alternative CBL/CIPK complexes in planta. Plant Journal, 2008, 56, 505-516.	2.8	652
33	In Planta Visualization of Protein Interactions Using Bimolecular Fluorescence Complementation (BiFC). Cold Spring Harbor Protocols, 2008, 2008, pdb.prot4995.	0.2	193
34	The calcium sensor CBL10 mediates salt tolerance by regulating ion homeostasis in Arabidopsis. Plant Journal, 2007, 52, 473-484.	2.8	333