Wolfgang Moeder

List of Publications by Year
in descending order

50	3,758	159585 30	206112 48
papers	citations	h-index	g-index

52	52	52	4060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defense activation and enhanced pathogen tolerance induced by H2O2 in transgenic tobacco. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 5818-5823.	7.1	469
2	NPS6, Encoding a Nonribosomal Peptide Synthetase Involved in Siderophore-Mediated Iron Metabolism, Is a Conserved Virulence Determinant of Plant Pathogenic Ascomycetes. Plant Cell, 2006, 18, 2836-2853.	6.6	311
3	Ozone-induced oxidative burst in the ozone biomonitor plant, tobacco Bel W3. Plant Journal, 1998, 16, 235-245.	5.7	251
4	The Timing of Senescence and Response to Pathogens Is Altered in the Ascorbate-Deficient Arabidopsis Mutant vitamin c-1. Plant Physiology, 2004, 134, 1784-1792.	4.8	244
5	The Chimeric Arabidopsis CYCLIC NUCLEOTIDE-GATED ION CHANNEL11/12 Activates Multiple Pathogen Resistance Responses. Plant Cell, 2006, 18, 747-763.	6.6	201
6	Ethylene Synthesis Regulated by Biphasic Induction of 1-Aminocyclopropane-1-Carboxylic Acid Synthase and 1-Aminocyclopropane-1-Carboxylic Acid Oxidase Genes Is Required for Hydrogen Peroxide Accumulation and Cell Death in Ozone-Exposed Tomato. Plant Physiology, 2002, 130, 1918-1926.	4.8	199
7	Aconitase plays a role in regulating resistance to oxidative stress and cell death in Arabidopsis and Nicotiana benthamiana. Plant Molecular Biology, 2007, 63, 273-287.	3.9	148
8	The Role of Cyclic Nucleotide-Gated Ion Channels in Plant Immunity. Molecular Plant, 2011, 4, 442-452.	8.3	125
9	The Lesion-Mimic Mutant cpr22 Shows Alterations in Abscisic Acid Signaling and Abscisic Acid Insensitivity in a Salicylic Acid-Dependent Manner. Plant Physiology, 2010, 152, 1901-1913.	4.8	117
10	The Arabidopsis Cyclic Nucleotide-Gated Ion Channels AtCNGC2 and AtCNGC4 Work in the Same Signaling Pathway to Regulate Pathogen Defense and Floral Transition Â Â Â. Plant Physiology, 2013, 163, 611-624.	4.8	114
11	The chimeric cyclic nucleotide-gated ion channel ATCNGC11/12 constitutively induces programmed cell death in a Ca2+ dependent manner. Plant Molecular Biology, 2007, 65, 747-761.	3.9	102
12	Opening the Gates: Insights into Cyclic Nucleotide-Gated Channel-Mediated Signaling. Trends in Plant Science, 2016, 21, 903-906.	8.8	86
13	The Receptor Kinases BAK1/SERK4 Regulate Ca2+ Channel-Mediated Cellular Homeostasis for Cell Death Containment. Current Biology, 2019, 29, 3778-3790.e8.	3.9	86
14	Lesion mimic mutants. Plant Signaling and Behavior, 2008, 3, 764-767.	2.4	82
15	Multiple Calmodulin-binding Sites Positively and Negatively Regulate Arabidopsis CYCLIC NUCLEOTIDE-GATED CHANNEL12. Plant Cell, 2016, 28, tpc.00870.2015.	6.6	81
16	Leaf Senescence Signaling: The Ca2+-Conducting Arabidopsis Cyclic Nucleotide Gated Channel2 Acts through Nitric Oxide to Repress Senescence Programming Â Â. Plant Physiology, 2010, 154, 733-743.	4.8	80
17	Involvement of the Small GTPase Rac in the Defense Responses of Tobacco to Pathogens. Molecular Plant-Microbe Interactions, 2005, 18, 116-124.	2.6	73
18	Biological roles of cyclic-nucleotide-gated ion channels in plants: What we know and donâ€™t know about this 20 member ion channel familyThis paper is one of a selection published in a Special Issue comprising papers presented at the 50th Annual Meeting of the Canadian Society of Plant Physiologists (CSPP) held at the University of Ottawa, Ontario, in June 2008.. Botany, 2009, 87, 668-677.	1.0	64

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19	Ca2+ to the rescue â€“ Ca2+channels and signaling in plant immunity. Plant Science, 2019, 279, 19-26.	3.6	62
20	Calmodulin as a Ca2+-Sensing Subunit of Arabidopsis Cyclic Nucleotide-Gated Channel Complexes. Plant and Cell Physiology, 2017, 58, 1208-1221.	3.1	58
21	ThePseudomonas syringaetype III effector AvrRpt2 functions downstream or independently of SA to promote virulence onArabidopsis thaliana. Plant Journal, 2004, 37, 494-504.	5.7	57
22	SA-ABA antagonism in defense responses. Plant Signaling and Behavior, 2010, 5, 1231-1233.	2.4	55
23	Plant Cyclic Nucleotide-Gated Channels: New Insights on Their Functions and Regulation. Plant Physiology, 2020, 184, 27-38.	4.8	55
24	Arabidopsis ssi2-Conferred Susceptibility to Botrytis cinerea Is Dependent on EDS5 and PAD4. Molecular Plant-Microbe Interactions, 2005, 18, 363-370.	2.6	52
25	Arabidopsis ETHYLENE RESPONSE FACTOR 8 (ERF8) has dual functions in ABA signaling and immunity. BMC Plant Biology, 2018, 18, 211.	3.6	52
26	Identification of a functionally essential amino acid for Arabidopsis cyclic nucleotide gated ion channels using the chimeric AtCNGC11/12 gene. Plant Journal, 2008, 56, 457-469.	5.7	49
27	Forward and reverse genetics to identify genes involved in the ageâ€related resistance response in Arabidopsis thaliana. Molecular Plant Pathology, 2009, 10, 621-634.	4.2	46
28	A tale of many families: calcium channels in plant immunity. Plant Cell, 2022, 34, 1551-1567.	6.6	45
29	Altered Germination and Subcellular Localization Patterns for PUB44/SAUL1 in Response to Stress and Phytohormone Treatments. PLoS ONE, 2011, 6, e21321.	2.5	43
30	The cyclic nucleotide-gated channels AtCNGC11 and 12 are involved in multiple Ca2+-dependent physiological responses and act in a synergistic manner. Journal of Experimental Botany, 2011, 62, 3671-3682.	4.8	40
31	A hostâ€“pathogen interactome uncovers phytopathogenic strategies to manipulate plant <scp>ABA</scp> responses. Plant Journal, 2019, 100, 187-198.	5.7	34
32	Crystal structure and biochemical analyses reveal that the <scp>A</scp>rabidopsis triphosphate tunnel metalloenzyme <scp>A</scp>t<scp>TTM</scp>3 is a tripolyphosphatase involved in root development. Plant Journal, 2013, 76, 615-626.	5.7	33
33	Using GCaMP3 to Study Ca2+ Signaling in Nicotiana Species. Plant and Cell Physiology, 2017, 58, 1173-1184.	3.1	32
34	Importance of the Î±C-helix in the cyclic nucleotide binding domain for the stable channel regulation and function of cyclic nucleotide gated ion channels in Arabidopsis. Journal of Experimental Botany, 2010, 61, 2383-2393.	4.8	28
35	Arabidopsis Triphosphate Tunnel Metalloenzyme2 Is a Negative Regulator of the Salicylic Acid-Mediated Feedback Amplification Loop for Defense Responses Â Â. Plant Physiology, 2014, 166, 1009-1021.	4.8	21
36	Crossroads of stress responses, development and flowering regulationâ€”the multiple roles of Cyclic Nucleotide Gated Ion Channel 2. Plant Signaling and Behavior, 2015, 10, e989758.	2.4	20

#	Article	IF	Citations
37	Triphosphate Tunnel Metalloenzyme Function in Senescence Highlights a Biological Diversification of This Protein Superfamily. Plant Physiology, 2017, 175, 473-485.	4.8	19
38	CYCLIC NUCLEOTIDE-GATED ION CHANNEL 2 modulates auxin homeostasis and signaling. Plant Physiology, 2021, 187, 1690-1703.	4.8	18
39	Arabidopsis thaliana CYCLIC NUCLEOTIDEâ€GATED CHANNEL2 mediates extracellular ATP signal transduction in root epidermis. New Phytologist, 2022, 234, 412-421.	7.3	17
40	High throughput chemical screening supports the involvement of Ca²⁺in cyclic nucleotide-gated ion channel-mediated programmed cell death in Arabidopsis. Plant Signaling and Behavior, 2011, 6, 1817-1819.	2.4	16
41	A Suppressor Screen of the Chimeric AtCNGC11/12 Reveals Residues Important for Intersubunit Interactions of Cyclic Nucleotide-Gated Ion Channels Â Â Â. Plant Physiology, 2013, 162, 1681-1693.	4.8	15
42	Environmental Sensitivity in Pathogen ResistantArabidopsis Mutants. , 0, , 113-135.		9
43	Calcium channel in plants helps shut the door on intruders. Nature, 2020, 585, 507-508.	27.8	9
44	Calmodulin binding to Arabidopsis cyclic nucleotide gated ion channels. Plant Signaling and Behavior, 2010, 5, 1147-1149.	2.4	8
45	Forward Genetic Screening for the Improved Production of Fermentable Sugars from Plant Biomass. PLoS ONE, 2013, 8, e55616.	2.5	7
46	Microbial diversity in leaves, trunk and rhizosphere of coconut palms (Cocos nucifera L.) associated with the coconut lethal yellowing phytoplasma in Grand-Lahou, Cte dIvoire. African Journal of Biotechnology, 2017, 16, 1534-1550.	0.6	6
47	CNGCs break throughâ€”A rice cyclic nucleotide-gated channel paves the way for pollen tube growth. PLoS Genetics, 2017, 13, e1007066.	3.5	6
48	Multiple phosphorylation events of the mitochondrial membrane protein TTM1 regulate cell death during senescence. Plant Journal, 2021, 108, 766-780.	5.7	5
49	Auxin analog-induced Ca2+ signaling is independent of inhibition of endosomal aggregation in Arabidopsis roots. Journal of Experimental Botany, 2022, , .	4.8	4
50	Plant Immunity. , 2017, , .		2