

Walter Gassmann

List of Publications by Year in descending order

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papers

6,707
citations

81900

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95266

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77
docs citations

77
times ranked

7929
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. Trends in Plant Science, 2014, 19, 5-9.	8.8	581
2	The FRD3-Mediated Efflux of Citrate into the Root Vasculature Is Necessary for Efficient Iron Translocation. Plant Physiology, 2007, 144, 197-205.	4.8	525
3	The <i>Arabidopsis</i> Nitrate Transporter NRT1.8 Functions in Nitrate Removal from the Xylem Sap and Mediates Cadmium Tolerance. Plant Cell, 2010, 22, 1633-1646.	6.6	413
4	The <i>Arabidopsis</i> RPS4 bacterial-resistance gene is a member of the TIR-NBS-LRR family of disease-resistance genes. Plant Journal, 1999, 20, 265-277.	5.7	348
5	A gene family of silicon transporters. Nature, 1997, 385, 688-689.	27.8	319
6	Chloroplast-generated reactive oxygen species are involved in hypersensitive response-like cell death mediated by a mitogen-activated protein kinase cascade. Plant Journal, 2007, 51, 941-954.	5.7	281
7	Pathogen Effectors Target <i>Arabidopsis</i> EDS1 and Alter Its Interactions with Immune Regulators. Science, 2011, 334, 1405-1408.	12.6	268
8	Alkali cation selectivity of the wheat root high-affinity potassium transporter HKT1. Plant Journal, 1996, 10, 869-882.	5.7	240
9	The <i>Arabidopsis</i> AtOPT3 Protein Functions in Metal Homeostasis and Movement of Iron to Developing Seeds. Plant Physiology, 2008, 146, 323-324.	4.8	225
10	Activation of a Stress-Responsive Mitogen-Activated Protein Kinase Cascade Induces the Biosynthesis of Ethylene in Plants. Plant Cell, 2003, 15, 2707-2718.	6.6	200
11	Aluminum Rapidly Depolymerizes Cortical Microtubules and Depolarizes the Plasma Membrane: Evidence that these Responses are Mediated by a Glutamate Receptor. Plant and Cell Physiology, 2003, 44, 667-675.	3.1	177
12	The Role of Plant Innate Immunity in the Legume-Rhizobium Symbiosis. Annual Review of Plant Biology, 2017, 68, 535-561.	18.7	157
13	RPS4-Mediated Disease Resistance Requires the Combined Presence of RPS4 Transcripts with Full-Length and Truncated Open Reading Frames. Plant Cell, 2003, 15, 2333-2342.	6.6	140
14	Enhancement of Na ⁺ Uptake Currents, Time-Dependent Inward-Rectifying K ⁺ Channel Currents, and K ⁺ Channel Transcripts by K ⁺ Starvation in Wheat Root Cells. Plant Physiology, 2000, 122, 1387-1398.	4.8	136
15	Rapid Up-Regulation of HKT1, a High-Affinity Potassium Transporter Gene, in Roots of Barley and Wheat following Withdrawal of Potassium. Plant Physiology, 1998, 118, 651-659.	4.8	131
16	Alternative Splicing and mRNA Levels of the Disease Resistance Gene <i>RPS4</i> Are Induced during Defense Responses. Plant Physiology, 2007, 145, 1577-1587.	4.8	128
17	Genetic Selection of Mutations in the High Affinity K ⁺ Transporter HKT1 That Define Functions of a Loop Site for Reduced Na ⁺ Permeability and Increased Na ⁺ Tolerance. Journal of Biological Chemistry, 1999, 274, 6839-6847.	3.4	113
18	Transport of Boron by the <i>tassel-less1</i> Aquaporin Is Critical for Vegetative and Reproductive Development in Maize. Plant Cell, 2014, 26, 2978-2995.	6.6	113

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19	The Arabidopsis Resistance-Like Gene SNC1 Is Activated by Mutations in SRRF1 and Contributes to Resistance to the Bacterial Effector AvrRps4. <i>PLoS Pathogens</i> , 2010, 6, e1001172.	4.7	107
20	Resistance to the <i>Pseudomonas syringae</i> Effector HopA1 Is Governed by the TIR-NBS-LRR Protein RPS6 and Is Enhanced by Mutations in <i>SRRF1</i> . <i>Plant Physiology</i> , 2009, 150, 1723-1732.	4.8	105
21	Identification of Strong Modifications in Cation Selectivity in an Arabidopsis Inward Rectifying Potassium Channel by Mutant Selection in Yeast. <i>Journal of Biological Chemistry</i> , 1995, 270, 24276-24281.	3.4	102
22	Oxidative Damage to DNA Constituents by Iron-mediated Fenton Reactions. <i>Journal of Biological Chemistry</i> , 1996, 271, 21177-21186.	3.4	100
23	Molecular Evolution of Virulence in Natural Field Strains of <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> . <i>Journal of Bacteriology</i> , 2000, 182, 7053-7059.	2.2	100
24	The Arabidopsis immune adaptor <i>SRRF1</i> interacts with <i>TCP</i> transcription factors that redundantly contribute to effector-triggered immunity. <i>Plant Journal</i> , 2014, 78, 978-989.	5.7	98
25	Natural Variation in the Arabidopsis Response to the Avirulence Gene <i>hopPsyA</i> Uncouples the Hypersensitive Response from Disease Resistance. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 1054-1060.	2.6	90
26	Effector-Triggered Immunity Signaling: From Gene-for-Gene Pathways to Protein-Protein Interaction Networks. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 862-868.	2.6	90
27	A Constitutive Shade-Avoidance Mutant Implicates TIR-NBS-LRR Proteins in Arabidopsis Photomorphogenic Development. <i>Plant Cell</i> , 2006, 18, 2919-2928.	6.6	89
28	Expression analyses of Arabidopsis oligopeptide transporters during seed germination, vegetative growth and reproduction. <i>Planta</i> , 2006, 223, 291-305.	3.2	87
29	High-Throughput RNA Sequencing of <i>Pseudomonas</i> -Infected Arabidopsis Reveals Hidden Transcriptome Complexity and Novel Splice Variants. <i>PLoS ONE</i> , 2013, 8, e74183.	2.5	82
30	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 715-730.	9.0	73
31	ScOPT1 and AtOPT4 function as proton-coupled oligopeptide transporters with broad but distinct substrate specificities. <i>Biochemical Journal</i> , 2006, 393, 267-275.	3.7	71
32	<i>SRRF1</i> , a suppressor of effector-triggered immunity, encodes a conserved tetratricopeptide repeat protein with similarity to transcriptional repressors. <i>Plant Journal</i> , 2009, 57, 109-119.	5.7	64
33	Natural Variation in Small Molecule-Induced TIR-NBS-LRR Signaling Induces Root Growth Arrest via EDS1- and PAD4-Complexed R Protein VICTR in Arabidopsis. <i>Plant Cell</i> , 2013, 24, 5177-5192.	6.6	64
34	Members of the NPF3 Transporter Subfamily Encode Pathogen-Inducible Nitrate/Nitrite Transporters in Grapevine and Arabidopsis. <i>Plant and Cell Physiology</i> , 2014, 55, 162-170.	3.1	62
35	Arabidopsis OPT6 is an Oligopeptide Transporter with Exceptionally Broad Substrate Specificity. <i>Plant and Cell Physiology</i> , 2009, 50, 1923-1932.	3.1	60
36	CRISPR/Cas9-Based Gene Editing Using Egg Cell-Specific Promoters in Arabidopsis and Soybean. <i>Frontiers in Plant Science</i> , 2020, 11, 800.	3.6	51

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37	Alternative Splicing in Plant Defense. <i>Current Topics in Microbiology and Immunology</i> , 2008, 326, 219-233.	1.1	50
38	TCP Transcription Factors Interact With NPR1 and Contribute Redundantly to Systemic Acquired Resistance. <i>Frontiers in Plant Science</i> , 2018, 9, 1153.	3.6	46
39	Leaf shedding as an anti-bacterial defense in <i>Arabidopsis cauline</i> leaves. <i>PLoS Genetics</i> , 2017, 13, e1007132.	3.5	44
40	A functional EDS1 ortholog is differentially regulated in powdery mildew resistant and susceptible grapevines and complements an <i>Arabidopsis eds1</i> mutant. <i>Planta</i> , 2010, 231, 1037-1047.	3.2	43
41	Functions of EDS1-like and PAD4 genes in grapevine defenses against powdery mildew. <i>Plant Molecular Biology</i> , 2014, 86, 381-393.	3.9	42
42	Express yourself: Transcriptional regulation of plant innate immunity. <i>Seminars in Cell and Developmental Biology</i> , 2016, 56, 150-162.	5.0	37
43	Electrophysiological Characterization of the <i>Arabidopsis avrRpt2</i> -Specific Hypersensitive Response in the Absence of Other Bacterial Signals. <i>Plant Physiology</i> , 2005, 138, 1009-1017.	4.8	35
44	New clues in the nucleus: transcriptional reprogramming in effector-triggered immunity. <i>Frontiers in Plant Science</i> , 2013, 4, 364.	3.6	35
45	<i>Arabidopsis</i> TCP Transcription Factors Interact with the SUMO Conjugating Machinery in Nuclear Foci. <i>Frontiers in Plant Science</i> , 2017, 8, 2043.	3.6	31
46	Copper uptake mechanism of <i>Arabidopsis thaliana</i> high-affinity COPT transporters. <i>Protoplasma</i> , 2019, 256, 161-170.	2.1	31
47	Soybean TIP Gene Family Analysis and Characterization of GmTIP1;5 and GmTIP2;5 Water Transport Activity. <i>Frontiers in Plant Science</i> , 2016, 7, 1564.	3.6	30
48	Constant vigilance: plant functions guarded by resistance proteins. <i>Plant Journal</i> , 2018, 93, 637-650.	5.7	28
49	Two <i>Arabidopsis srfr</i> (suppressor of <i>rps4</i> â€RLD) mutants exhibit <i>avrRps4</i> â€specific disease resistance independent of RPS4. <i>Plant Journal</i> , 2004, 40, 366-375.	5.7	26
50	The bacterial type III-secreted protein <i>AvrRps4</i> is a bipartite effector. <i>PLoS Pathogens</i> , 2018, 14, e1006984.	4.7	23
51	Metal-ion-directed site-specificity of hydroxyl radical detection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1992, 1116, 183-191.	2.4	20
52	Direct Regulation of the EFR-Dependent Immune Response by <i>Arabidopsis</i> TCP Transcription Factors. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 540-549.	2.6	19
53	Regulation of defense gene expression by <i>Arabidopsis</i> <i>SRFR1</i> . <i>Plant Signaling and Behavior</i> , 2009, 4, 149-150.	2.4	15
54	Opposing functions of the plant TOPLESS gene family during SNC1-mediated autoimmunity. <i>PLoS Genetics</i> , 2021, 17, e1009026.	3.5	15

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55	The <i>Arabidopsis</i> immune regulator <i>SRFR1</i> dampens defences against herbivory by <i>Spodoptera exigua</i> and parasitism by <i>Heterodera schachtii</i> . <i>Molecular Plant Pathology</i> , 2016, 17, 588-600.	4.2	11
56	Pathogen-induced AddJSKI of the wild peanut, <i>Arachis diogenes</i> , potentiates tolerance of multiple stresses in <i>E. coli</i> and tobacco. <i>Plant Science</i> , 2018, 272, 62-74.	3.6	11
57	Nuclear Localization of HopA1Pss61 Is Required for Effector-Triggered Immunity. <i>Plants</i> , 2021, 10, 888.	3.5	11
58	Physiological Roles of Inward-Rectifying K ⁺ Channels. <i>Plant Cell</i> , 1993, 5, 1491.	6.6	10
59	ACMES: fast multiple-genome searches for short repeat sequences with concurrent cross-species information retrieval. <i>Nucleic Acids Research</i> , 2004, 32, W649-W653.	14.5	10
60	Using <i>Xenopus laevis</i> Oocytes to Functionally Characterize Plant Transporters. <i>Current Protocols in Plant Biology</i> , 2019, 4, e20087.	2.8	10
61	Leaping into the Unknown World of <i>Sporisorium scitamineum</i> Candidate Effectors. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 339.	3.5	7
62	Conserved Opposite Functions in Plant Resistance to Biotrophic and Necrotrophic Pathogens of the Immune Regulator <i>SRFR1</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6427.	4.1	6
63	Generating Transgenic <i>Arabidopsis</i> Plants for Functional Analysis of Pathogen Effectors and Corresponding R Proteins. <i>Methods in Molecular Biology</i> , 2019, 1991, 199-206.	0.9	3
64	The Conserved Arginine Required for <i>AvrRps4</i> Processing Is Also Required for Recognition of Its N-Terminal Fragment in Lettuce. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 270-278.	2.6	2
65	Quantifying Alternatively Spliced mRNA via Capillary Electrophoresis. <i>Methods in Molecular Biology</i> , 2011, 712, 69-77.	0.9	1
66	<i>AvrRps4</i> effector family processing and recognition in lettuce. <i>Molecular Plant Pathology</i> , 2022, 23, 1390-1398.	4.2	1
67	A Method for Investigating the <i>Pseudomonas syringae</i> - <i>Arabidopsis thaliana</i> Pathosystem Under Various Light Environments. <i>Methods in Molecular Biology</i> , 2019, 1991, 107-113.	0.9	0
68	Global SUMOylation Adjustments in Basal Defenses of <i>Arabidopsis thaliana</i> Involve Complex Interplay Between SMALL-UBIQUITIN LIKE MODIFIERS and the Negative Immune Regulator SUPPRESSOR OF <i>rps4</i> - <i>RLD1</i> . <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 680760.	3.7	0