Walter Gassmann

List of Publications by Year
in descending order

68 papers	6,707 citations	81743 39 h-index	95083 68 g-index
77 all docs	77 docs citations	77 times ranked	7929 citing authors

#	Article	IF	Citations
1	<scp>AvrRps4</scp> effector family processing and recognition in lettuce. Molecular Plant Pathology, 2022, 23, 1390-1398.	2.0	1
2	Opposing functions of the plant TOPLESS gene family during SNC1-mediated autoimmunity. PLoS Genetics, 2021, 17, e1009026.	1.5	15
3	The Conserved Arginine Required for AvrRps4 Processing Is Also Required for Recognition of Its N-Terminal Fragment in Lettuce. Molecular Plant-Microbe Interactions, 2021, 34, 270-278.	1.4	2
4	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants. Critical Reviews in Biotechnology, 2021, 41, 715-730.	5.1	73
5	Nuclear Localization of HopA1Pss61 Is Required for Effector-Triggered Immunity. Plants, 2021, 10, 888.	1.6	11
6	Conserved Opposite Functions in Plant Resistance to Biotrophic and Necrotrophic Pathogens of the Immune Regulator SRFR1. International Journal of Molecular Sciences, 2021, 22, 6427.	1.8	6
7	Global SUMOylome Adjustments in Basal Defenses of Arabidopsis thaliana Involve Complex Interplay Between SMALL-UBIQUITIN LIKE MODIFIERs and the Negative Immune Regulator SUPPRESSOR OF rps4-RLD1. Frontiers in Cell and Developmental Biology, 2021, 9, 680760.	1.8	0
8	Leaping into the Unknown World of Sporisorium scitamineum Candidate Effectors. Journal of Fungi (Basel, Switzerland), 2020, 6, 339.	1.5	7
9	CRISPR/Cas9-Based Gene Editing Using Egg Cell-Specific Promoters in Arabidopsis and Soybean. Frontiers in Plant Science, 2020, 11, 800.	1.7	51
10	Copper uptake mechanism of Arabidopsis thaliana high-affinity COPT transporters. Protoplasma, 2019, 256, 161-170.	1.0	31
11	A Method for Investigating the Pseudomonas syringae-Arabidopsis thaliana Pathosystem Under Various Light Environments. Methods in Molecular Biology, 2019, 1991, 107-113.	0.4	0
12	Generating Transgenic Arabidopsis Plants for Functional Analysis of Pathogen Effectors and Corresponding R Proteins. Methods in Molecular Biology, 2019, 1991, 199-206.	0.4	3
13	Using Xenopus laevis Oocytes to Functionally Characterize Plant Transporters. Current Protocols in Plant Biology, 2019, 4, e20087.	2.8	10
14	Direct Regulation of the EFR-Dependent Immune Response by Arabidopsis TCP Transcription Factors. Molecular Plant-Microbe Interactions, 2019, 32, 540-549.	1.4	19
15	Pathogen-induced AdDjSKI of the wild peanut, Arachis diogoi, potentiates tolerance of multiple stresses in E. coli and tobacco. Plant Science, 2018, 272, 62-74.	1.7	11
16	Constant vigilance: plant functions guarded by resistance proteins. Plant Journal, 2018, 93, 637-650.	2.8	28
17	TCP Transcription Factors Interact With NPR1 and Contribute Redundantly to Systemic Acquired Resistance. Frontiers in Plant Science, 2018, 9, 1153.	1.7	46
18	The bacterial type III-secreted protein AvrRps4 is a bipartite effector. PLoS Pathogens, 2018, 14, e1006984.	2.1	23

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19	The Role of Plant Innate Immunity in the Legume-Rhizobium Symbiosis. Annual Review of Plant Biology, 2017, 68, 535-561.	8.6	157
20	Arabidopsis TCP Transcription Factors Interact with the SUMO Conjugating Machinery in Nuclear Foci. Frontiers in Plant Science, 2017, 8, 2043.	1.7	31
21	Leaf shedding as an anti-bacterial defense in Arabidopsis cauline leaves. PLoS Genetics, 2017, 13, e1007132.	1.5	44
22	Soybean TIP Gene Family Analysis and Characterization of GmTIP1;5 and GmTIP2;5 Water Transport Activity. Frontiers in Plant Science, 2016, 7, 1564.	1.7	30
23	Express yourself: Transcriptional regulation of plant innate immunity. Seminars in Cell and Developmental Biology, 2016, 56, 150-162.	2.3	37
24	The <scp>A</scp>rabidopsis immune regulator <scp><i>SRFR</i></scp><i>1</i> dampens defences against herbivory by <scp><i>S</i></scp><i>podoptera exigua</i> and parasitism by <scp><i>H</i></scp><i>eterodera schachtii</i>. Molecular Plant Pathology, 2016, 17, 588-600.	2.0	11
25	Transport of Boron by the<i>tassel-less1</i>Aquaporin Is Critical for Vegetative and Reproductive Development in Maize Â Â. Plant Cell, 2014, 26, 2978-2995.	3.1	113
26	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. Trends in Plant Science, 2014, 19, 5-9.	4.3	581
27	Members of the NPF3 Transporter Subfamily Encode Pathogen-Inducible Nitrate/Nitrite Transporters in Grapevine and Arabidopsis. Plant and Cell Physiology, 2014, 55, 162-170.	1.5	62
28	The <scp>A</scp>rabidopsis immune adaptor <scp>SRFR</scp>1 interacts with <scp>TCP</scp> transcription factors that redundantly contribute to effectorâ€triggered immunity. Plant Journal, 2014, 78, 978-989.	2.8	98
29	Functions of EDS1-like and PAD4 genes in grapevine defenses against powdery mildew. Plant Molecular Biology, 2014, 86, 381-393.	2.0	42
30	Natural Variation in Small Moleculeâ€"Induced TIR-NB-LRR Signaling Induces Root Growth Arrest via EDS1- and PAD4-Complexed R Protein VICTR in<i>Arabidopsis</i>Â Â. Plant Cell, 2013, 24, 5177-5192.	3.1	64
31	New clues in the nucleus: transcriptional reprogramming in effector-triggered immunity. Frontiers in Plant Science, 2013, 4, 364.	1.7	35
32	High-Throughput RNA Sequencing of Pseudomonas-Infected Arabidopsis Reveals Hidden Transcriptome Complexity and Novel Splice Variants. PLoS ONE, 2013, 8, e74183.	1.1	82
33	Effector-Triggered Immunity Signaling: From Gene-for-Gene Pathways to Protein-Protein Interaction Networks. Molecular Plant-Microbe Interactions, 2012, 25, 862-868.	1.4	90
34	Pathogen Effectors Target <i>Arabidopsis</i> EDS1 and Alter Its Interactions with Immune Regulators. Science, 2011, 334, 1405-1408.	6.0	268
35	Quantifying Alternatively Spliced mRNA via Capillary Electrophoresis. Methods in Molecular Biology, 2011, 712, 69-77.	0.4	1
36	A functional EDS1 ortholog is differentially regulated in powdery mildew resistant and susceptible grapevines and complements an Arabidopsis eds1 mutant. Planta, 2010, 231, 1037-1047.	1.6	43

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37	The<i>Arabidopsis</i>Nitrate Transporter NRT1.8 Functions in Nitrate Removal from the Xylem Sap and Mediates Cadmium Tolerance Â. Plant Cell, 2010, 22, 1633-1646.	3.1	413
38	The Arabidopsis Resistance-Like Gene SNC1 Is Activated by Mutations in SRFR1 and Contributes to Resistance to the Bacterial Effector AvrRps4. PLoS Pathogens, 2010, 6, e1001172.	2.1	107
39	Regulation of defense gene expression by Arabidopsis<i>SRFR1</i>. Plant Signaling and Behavior, 2009, 4, 149-150.	1.2	15
40	Arabidopsis OPT6 is an Oligopeptide Transporter with Exceptionally Broad Substrate Specificity. Plant and Cell Physiology, 2009, 50, 1923-1932.	1.5	60
41	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>SRFR1</i> Â Â Â. Plant Physiology, 2009, 150, 1723-1732.	2.3	105
42	<i>SRFR1</i>, a suppressor of effectorâ€triggered immunity, encodes a conserved tetratricopeptide repeat protein with similarity to transcriptional repressors. Plant Journal, 2009, 57, 109-119.	2.8	64
43	The Arabidopsis AtOPT3 Protein Functions in Metal Homeostasis and Movement of Iron to Developing Seeds. Plant Physiology, 2008, 146, 323-324.	2.3	225
44	Alternative Splicing in Plant Defense. Current Topics in Microbiology and Immunology, 2008, 326, 219-233.	0.7	50
45	The FRD3-Mediated Efflux of Citrate into the Root Vasculature Is Necessary for Efficient Iron Translocation. Plant Physiology, 2007, 144, 197-205.	2.3	525
46	Alternative Splicing and mRNA Levels of the Disease Resistance Gene <i>RPS4</i> Are Induced during Defense Responses. Plant Physiology, 2007, 145, 1577-1587.	2.3	128
47	Chloroplastâ€generated reactive oxygen species are involved in hypersensitive responseâ€like cell death mediated by a mitogenâ€activated protein kinase cascade. Plant Journal, 2007, 51, 941-954.	2.8	281
48	ScOPT1 and AtOPT4 function as proton-coupled oligopeptide transporters with broad but distinct substrate specificities. Biochemical Journal, 2006, 393, 267-275.	1.7	71
49	Expression analyses of Arabidopsis oligopeptide transporters during seed germination, vegetative growth and reproduction. Planta, 2006, 223, 291-305.	1.6	87
50	A Constitutive Shade-Avoidance Mutant Implicates TIR-NBS-LRR Proteins in Arabidopsis Photomorphogenic Development. Plant Cell, 2006, 18, 2919-2928.	3.1	89
51	Natural Variation in the Arabidopsis Response to the Avirulence Gene hopPsyA Uncouples the Hypersensitive Response from Disease Resistance. Molecular Plant-Microbe Interactions, 2005, 18, 1054-1060.	1.4	90
52	Electrophysiological Characterization of the Arabidopsis avrRpt2-Specific Hypersensitive Response in the Absence of Other Bacterial Signals. Plant Physiology, 2005, 138, 1009-1017.	2.3	35
53	ACMES: fast multiple-genome searches for short repeat sequences with concurrent cross-species information retrieval. Nucleic Acids Research, 2004, 32, W649-W653.	6.5	10
54	Two Arabidopsis srfr (suppressor of rps4â€RLD) mutants exhibit avrRps4 â€specific disease resistance independent of RPS4. Plant Journal, 2004, 40, 366-375.	2.8	26

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55	Activation of a Stress-Responsive Mitogen-Activated Protein Kinase Cascade Induces the Biosynthesis of Ethylene in Plants. Plant Cell, 2003, 15, 2707-2718.	3.1	200
56	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.	1.5	177
57	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.	3.1	140
58	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.	2.3	136
59	Molecular Evolution of Virulence in Natural Field Strains of Xanthomonas campestris pv. vesicatoria. Journal of Bacteriology, 2000, 182, 7053-7059.	1.0	100
60	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.	1.6	113
61	The Arabidopsis RPS4 bacterial-resistance gene is a member of the TIR-NBS-LRR family of disease-resistance genes. Plant Journal, 1999, 20, 265-277.	2.8	348
62	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.	2.3	131
63	A gene family of silicon transporters. Nature, 1997, 385, 688-689.	13.7	319
64	Oxidative Damage to DNA Constituents by Iron-mediated Fenton Reactions. Journal of Biological Chemistry, 1996, 271, 21177-21186.	1.6	100
65	Alkali cation selectivity of the wheat root high-affinity potassium transporter HKT1. Plant Journal, 1996, 10, 869-882.	2.8	240
66	Identification of Strong Modifications in Cation Selectivity in an Arabidopsis Inward Rectifying Potassium Channel by Mutant Selection in Yeast. Journal of Biological Chemistry, 1995, 270, 24276-24281.	1.6	102
67	Physiological Roles of Inward-Rectifying K + Channels. Plant Cell, 1993, 5, 1491.	3.1	10
68	Metal-ion-directed site-specificity of hydroxyl radical detection. Biochimica Et Biophysica Acta - General Subjects, 1992, 1116, 183-191.	1.1	20