JÃ¼rgen Zeier

List of Publications by Year
in descending order

51 papers	6,226 citations	76326 40 h-index	182427 51 g-index
52 all docs	52 docs citations	52 times ranked	6443 citing authors

#	Article	IF	Citations
1	Pipecolic Acid, an Endogenous Mediator of Defense Amplification and Priming, Is a Critical Regulator of Inducible Plant Immunity. Plant Cell, 2013, 24, 5123-5141.	6.6	525
2	Pathogen-associated molecular pattern recognition rather than development of tissue necrosis contributes to bacterial induction of systemic acquired resistance in Arabidopsis. Plant Journal, 2007, 50, 500-513.	5.7	347
3	Arabidopsis Nonsymbiotic Hemoglobin AHb1 Modulates Nitric Oxide Bioactivity. Plant Cell, 2004, 16, 2785-2794.	6.6	332
4	Flavin Monooxygenase-Generated N-Hydroxypipecolic Acid Is a Critical Element of Plant Systemic Immunity. Cell, 2018, 173, 456-469.e16.	28.9	297
5	New insights into the regulation of plant immunity by amino acid metabolic pathways. Plant, Cell and Environment, 2013, 36, 2085-2103.	5.7	296
6	Long-distance communication and signal amplification in systemic acquired resistance. Frontiers in Plant Science, 2013, 4, 30.	3.6	268
7	Pipecolic Acid Orchestrates Plant Systemic Acquired Resistance and Defense Priming via Salicylic Acid-Dependent and -Independent Pathways. Plant Cell, 2016, 28, 102-129.	6.6	246
8	Light Regulation and Daytime Dependency of Inducible Plant Defenses in Arabidopsis: Phytochrome Signaling Controls Systemic Acquired Resistance Rather Than Local Defense. Plant Physiology, 2008, 147, 790-801.	4.8	236
9	The Arabidopsis Flavin-Dependent Monooxygenase FMO1 Is an Essential Component of Biologically Induced Systemic Acquired Resistance Â. Plant Physiology, 2006, 141, 1666-1675.	4.8	229
10	Methyl Salicylate Production and Jasmonate Signaling Are Not Essential for Systemic Acquired Resistance in<i>Arabidopsis</i>Â. Plant Cell, 2009, 21, 954-971.	6.6	208
11	Light conditions influence specific defence responses in incompatible plant?pathogen interactions: uncoupling systemic resistance from salicylic acid and PR-1 accumulation. Planta, 2004, 219, 673-83.	3.2	190
12	Cytokinins Mediate Resistance against<i>Pseudomonas syringae</i>in Tobacco through Increased Antimicrobial Phytoalexin Synthesis Independent of Salicylic Acid Signaling Â Â. Plant Physiology, 2011, 157, 815-830.	4.8	178
13	Spatial H2O2 Signaling Specificity: H2O2 from Chloroplasts and Peroxisomes Modulates the Plant Transcriptome Differentially. Molecular Plant, 2014, 7, 1191-1210.	8.3	167
14	Genetic Elucidation of Nitric Oxide Signaling in Incompatible Plant-Pathogen Interactions. Plant Physiology, 2004, 136, 2875-2886.	4.8	165
15	Expression of a nitric oxide degrading enzyme induces a senescence programme in Arabidopsis. Plant, Cell and Environment, 2007, 30, 39-52.	5.7	138
16	A role for Î²â€sitosterol to stigmasterol conversion in plantâ€"pathogen interactions. Plant Journal, 2010, 63, 254-268.	5.7	134
17	Root-specific camalexin biosynthesis controls the plant growth-promoting effects of multiple bacterial strains. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15735-15744.	7.1	134
18	Comparative investigation of primary and tertiary endodermal cell walls isolated from the roots of five monocotyledoneous species: chemical composition in relation to fine structure. Planta, 1998, 206, 349-361.	3.2	125

#	Article	IF	Citations
19	A MPK3/6-WRKY33-ALD1-Pipecolic Acid Regulatory Loop Contributes to Systemic Acquired Resistance. Plant Cell, 2018, 30, 2480-2494.	6.6	119
20	The form of nitrogen nutrition affects resistance against Pseudomonas syringae pv. phaseolicola in tobacco. Journal of Experimental Botany, 2013, 64, 553-568.	4.8	116
21	Chemical analysis and immunolocalisation of lignin and suberin in endodermal and hypodermal/rhizodermal cell walls of developing maize (Zea mays L.) primary roots. Planta, 1999, 209, 1-12.	3.2	112
22	Biochemical Principles and Functional Aspects of Pipecolic Acid Biosynthesis in Plant Immunity. Plant Physiology, 2017, 174, 124-153.	4.8	111
23	N-hydroxypipecolic acid and salicylic acid: a metabolic duo for systemic acquired resistance. Current Opinion in Plant Biology, 2019, 50, 44-57.	7.1	107
24	Post-Translational Derepression of Invertase Activity in Source Leaves via Down-Regulation of Invertase Inhibitor Expression Is Part of the Plant Defense Response. Molecular Plant, 2010, 3, 1037-1048.	8.3	105
25	Reprogramming of plants during systemic acquired resistance. Frontiers in Plant Science, 2013, 4, 252.	3.6	100
26	<scp>l</scp>â€lysine metabolism to <i>N</i>â€hydroxypipecolic acid: an integral immuneâ€activating pathway in plants. Plant Journal, 2018, 96, 5-21.	5.7	88
27	A Central Role of Abscisic Acid in Drought Stress Protection of <i>Agrobacterium</i>-Induced Tumors on Arabidopsis. Plant Physiology, 2007, 145, 853-862.	4.8	74
28	Insect eggs induce a systemic acquired resistance in Arabidopsis. Plant Journal, 2014, 80, 1085-1094.	5.7	73
29	Metabolic regulation of systemic acquired resistance. Current Opinion in Plant Biology, 2021, 62, 102050.	7.1	69
30	Pipecolic acid enhances resistance to bacterial infection and primes salicylic acid and nicotine accumulation in tobacco. Plant Signaling and Behavior, 2013, 8, e26366.	2.4	68
31	Flavohaemoglobin HmpX from Erwinia chrysanthemi confers nitrosative stress tolerance and affects the plant hypersensitive reaction by intercepting nitric oxide produced by the host. Plant Journal, 2005, 43, 226-237.	5.7	67
32	Fourier transform infrared-spectroscopic characterisation of isolated endodermal cell walls from plant roots: chemical nature in relation to anatomical development. Planta, 1999, 209, 537-542.	3.2	62
33	Nitric oxide (NO) as an intermediate in the cryptogein-induced hypersensitive response - a critical re-evaluation. Plant, Cell and Environment, 2006, 29, 59-69.	5.7	62
34	Regulatory and Functional Aspects of Indolic Metabolism in Plant Systemic Acquired Resistance. Molecular Plant, 2016, 9, 662-681.	8.3	62
35	<i>Botrytis cinerea</i> B05.10 promotes disease development in <i>Arabidopsis</i> by suppressing WRKY33â€mediated host immunity. Plant, Cell and Environment, 2017, 40, 2189-2206.	5.7	60
36	Fluctuating Light Interacts with Time of Day and Leaf Development Stage to Reprogram Gene Expression. Plant Physiology, 2019, 179, 1632-1657.	4.8	53

#	Article	IF	Citations
37	Bacterial nonâ€host resistance: interactions of <i>Arabidopsis</i> with nonâ€adapted <i>Pseudomonas syringae</i> strains. Physiologia Plantarum, 2007, 131, 448-461.	5.2	49
38	A Role for Tocopherol Biosynthesis in Arabidopsis Basal Immunity to Bacterial Infection. Plant Physiology, 2019, 181, 1008-1028.	4.8	49
39	Heavy metal stress can prime for herbivoreâ€induced plant volatile emission. Plant, Cell and Environment, 2012, 35, 1287-1298.	5.7	47
40	UGT76B1, a promiscuous hub of small molecule-based immune signaling, glucosylates N-hydroxypipecolic acid, and balances plant immunity. Plant Cell, 2021, 33, 714-734.	6.6	47
41	<i>Pseudomonas syringae</i>Elicits Emission of the Terpenoid (E,E)-4,8,12-Trimethyl-1,3,7,11-Tridecatetraene in<i>Arabidopsis</i>Leaves Via Jasmonate Signaling and Expression of the Terpene Synthase TPS4. Molecular Plant-Microbe Interactions, 2008, 21, 1482-1497.	2.6	45
42	Putrescine elicits <scp>ROS</scp>â€dependent activation of the salicylic acid pathway in <scp><i>Arabidopsis thaliana</i></scp>. Plant, Cell and Environment, 2020, 43, 2755-2768.	5.7	40
43	The mobile SAR signal N-hydroxypipecolic acid induces NPR1-dependent transcriptional reprogramming and immune priming. Plant Physiology, 2021, 186, 1679-1705.	4.8	39
44	Age-dependent variations of local and systemic defence responses in Arabidopsis leaves towards an avirulent strain of Pseudomonas syringae. Physiological and Molecular Plant Pathology, 2005, 66, 30-39.	2.5	36
45	Inducible biosynthesis and immune function of the systemic acquired resistance inducer N-hydroxypipecolic acid in monocotyledonous and dicotyledonous plants. Journal of Experimental Botany, 2020, 71, 6444-6459.	4.8	36
46	Chemical Activation of EDS1/PAD4 Signaling Leading to Pathogen Resistance in Arabidopsis. Plant and Cell Physiology, 2018, 59, 1592-1607.	3.1	31
47	A critical role for Arabidopsis <scp>MILDEW RESISTANCE LOCUS</scp> O2 in systemic acquired resistance. Plant Journal, 2018, 94, 1064-1082.	5.7	28
48	Natural variation in temperature-modulated immunity uncovers transcription factor bHLH059 as a thermoresponsive regulator in Arabidopsis thaliana. PLoS Genetics, 2021, 17, e1009290.	3.5	23
49	Copper and herbivory lead to priming and synergism in phytohormones and plant volatiles in the absence of salicylate-jasmonate antagonism. Plant Signaling and Behavior, 2013, 8, e24264.	2.4	10
50	Nitrite and nitric oxide are important in the adjustment of primary metabolism during the hypersensitive response in tobacco. Journal of Experimental Botany, 2019, 70, 4571-4582.	4.8	10
51	Insect eggs trigger systemic acquired resistance against a fungal and an oomycete pathogen. New Phytologist, 2021, 232, 2491-2505.	7.3	9