

Reinhard Kunze

List of Publications by Year in descending order

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57
papers

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citations

147801

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55
g-index

59
all docs

59
docs citations

59
times ranked

4747
citing authors

#	ARTICLE	IF	CITATIONS
1	ARAMEMNON, a Novel Database for Arabidopsis Integral Membrane Proteins. <i>Plant Physiology</i> , 2003, 131, 16-26.	4.8	624
2	Transcription Analysis of Arabidopsis Membrane Transporters and Hormone Pathways during Developmental and Induced Leaf Senescence. <i>Plant Physiology</i> , 2006, 141, 776-792.	4.8	527
3	Priming and memory of stress responses in organisms lacking a nervous system. <i>Biological Reviews</i> , 2016, 91, 1118-1133.	10.4	388
4	The Role of δ^1 -Pyrroline-5-Carboxylate Dehydrogenase in Proline Degradation[W]. <i>Plant Cell</i> , 2004, 16, 3413-3425.	6.6	228
5	An Arabidopsis thaliana knock-out mutant of the chloroplast triose phosphate/phosphate translocator is severely compromised only when starch synthesis, but not starch mobilisation is abolished. <i>Plant Journal</i> , 2002, 32, 685-699.	5.7	165
6	Gene Essentiality Analyzed by <i>In Vivo</i> Transposon Mutagenesis and Machine Learning in a Stable Haploid Isolate of <i>Candida albicans</i> . <i>MBio</i> , 2018, 9, .	4.1	110
7	A Novel Superfamily of Transporters for Allantoin and Other Oxo Derivatives of Nitrogen Heterocyclic Compounds in Arabidopsis. <i>Plant Cell</i> , 2002, 14, 847-856.	6.6	100
8	Transposition of maize Ac/Ds transposable elements in the yeast <i>Saccharomyces cerevisiae</i> . <i>Nature Genetics</i> , 2000, 26, 187-190.	21.4	94
9	Nitrate-dependent control of shoot K homeostasis by NPF7.3/NRT1.5 and SKOR in Arabidopsis. <i>Plant Physiology</i> , 2015, 169, pp.01152.2015.	4.8	83
10	Expression pattern of a nuclear encoded mitochondrial arginine-ornithine translocator gene from Arabidopsis. <i>BMC Plant Biology</i> , 2003, 3, 1.	3.6	76
11	Regulation of <i>Activator/Dissociation</i> Transposition by Replication and DNA Methylation. <i>Genetics</i> , 2001, 157, 1723-1733.	2.9	72
12	A phospholipid uptake system in the model plant Arabidopsis thaliana. <i>Nature Communications</i> , 2015, 6, 7649.	12.8	71
13	A Highly Conserved Domain of the Maize Activator Transposase Is Involved in Dimerization. <i>Plant Cell</i> , 2000, 12, 211-223.	6.6	69
14	Maize Activator transposase has a bipartite DNA binding domain that recognizes subterminal sequences and the terminal inverted repeats. <i>Molecular Genetics and Genomics</i> , 1997, 254, 219-230.	2.4	65
15	Methylation pattern of Activator transposase binding sites in maize endosperm.. <i>Plant Cell</i> , 1996, 8, 747-758.	6.6	63
16	In vivo aggregation of maize Activator (Ac) transposase in nuclei of maize endosperm and Petunia protoplasts. <i>Plant Journal</i> , 1994, 5, 705-714.	5.7	62
17	High rates of Ac/Ds germinal transposition in Arabidopsis suitable for gene isolation by insertional mutagenesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 6085-6089.	7.1	59
18	Arabidopsis senescence-associated protein DMP1 is involved in membrane remodeling of the ER and tonoplast. <i>BMC Plant Biology</i> , 2012, 12, 54.	3.6	58

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19	DNA methylation of the maize transposable element Ac interferes with its transcription. <i>Molecular Genetics and Genomics</i> , 1988, 214, 325-327.	2.4	55
20	UPS1 and UPS2 from Arabidopsis Mediate High Affinity Transport of Uracil and 5-Fluorouracil. <i>Journal of Biological Chemistry</i> , 2004, 279, 44817-44824.	3.4	55
21	Egg Laying of Cabbage White Butterfly (<i>Pieris brassicae</i>) on Arabidopsis thaliana Affects Subsequent Performance of the Larvae. <i>PLoS ONE</i> , 2013, 8, e59661.	2.5	55
22	Detection and abundance of mRNA and protein encoded by transposable element Activator (Ac) in maize. <i>Molecular Genetics and Genomics</i> , 1991, 225, 186-192.	2.4	51
23	Dominant transposition-deficient mutants of maize Activator (Ac) transposase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 7094-7098.	7.1	49
24	Isolation and characterization of AtMLH1, a MutL homologue from Arabidopsis thaliana. <i>Molecular Genetics and Genomics</i> , 1999, 262, 633-642.	2.4	44
25	Insect egg deposition renders plant defence against hatching larvae more effective in a salicylic acid-dependent manner. <i>Plant, Cell and Environment</i> , 2019, 42, 1019-1032.	5.7	44
26	Dual-targeting of Arabidopsis DMP1 isoforms to the tonoplast and the plasma membrane. <i>PLoS ONE</i> , 2017, 12, e0174062.	2.5	43
27	One of three nuclear localization signals of maize Activator (Ac) transposase overlaps the DNA-binding domain. <i>Plant Journal</i> , 1995, 7, 441-451.	5.7	40
28	DNA Damage-Induced Transcription of Transposable Elements and Long Non-coding RNAs in Arabidopsis Is Rare and ATM-Dependent. <i>Molecular Plant</i> , 2016, 9, 1142-1155.	8.3	39
29	The Arabidopsis nitrate transporter NPF7.3/NRT1.5 is involved in lateral root development under potassium deprivation. <i>Plant Signaling and Behavior</i> , 2016, 11, e1176819.	2.4	37
30	Metabolic Engineering of Plants: The Role of Membrane Transport. <i>Metabolic Engineering</i> , 2002, 4, 57-66.	7.0	36
31	Transcriptomic analysis of nitrogen starvation- and cultivar-specific leaf senescence in winter oilseed rape (<i>Brassica napus</i> L.). <i>Plant Science</i> , 2015, 233, 174-185.	3.6	36
32	Plant membrane proteome databases. <i>Plant Physiology and Biochemistry</i> , 2004, 42, 1023-1034.	5.8	32
33	Molecular Biology of Maize Ac/Ds Elements: An Overview. <i>Methods in Molecular Biology</i> , 2013, 1057, 59-82.	0.9	32
34	A Hyperactive Transposase of the Maize Transposable Element <i>Activator</i> (<i>Ac</i>). <i>Genetics</i> , 2012, 191, 747-756.	2.9	28
35	Identification of arbuscular mycorrhiza-inducible Nitrate Transporter 1/Peptide Transporter Family (NPF) genes in rice. <i>Mycorrhiza</i> , 2018, 28, 93-100.	2.8	28
36	Overproduction of the protein encoded by the maize transposable element Ac in insect cells by a baculovirus vector. <i>Molecular Genetics and Genomics</i> , 1988, 214, 373-378.	2.4	27

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37	Regulation of photosynthesis and transcription factor expression by leaf shading and re-illumination in <i>Arabidopsis thaliana</i> leaves. <i>Journal of Plant Physiology</i> , 2011, 168, 1311-1319.	3.5	25
38	Pre-exposure of <i>Arabidopsis</i> to the abiotic or biotic environmental stimuli "chilling" or "insect eggs" exhibits different transcriptomic responses to herbivory. <i>Scientific Reports</i> , 2016, 6, 28544.	3.3	22
39	Maize Transposable Elements <i>Ac</i> / <i>Ds</i> as Insertion Mutagenesis Tools in <i>Candida albicans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1139-1145.	1.8	22
40	Priming by Timing: <i>Arabidopsis thaliana</i> Adjusts Its Priming Response to Lepidoptera Eggs to the Time of Larval Hatching. <i>Frontiers in Plant Science</i> , 2020, 11, 619589.	3.6	20
41	Plant responses to insect eggs are not induced by egg-associated microbes, but by a secretion attached to the eggs. <i>Plant, Cell and Environment</i> , 2020, 43, 1815-1826.	5.7	20
42	Structure and expression of the <i>Zea mays</i> <i>mutS</i> -homologs <i>Mus1</i> and <i>Mus2</i> . <i>Theoretical and Applied Genetics</i> , 2002, 105, 423-430.	3.6	19
43	<i>Arabidopsis</i> , tobacco, nightshade and elm take insect eggs as herbivore alarm and show similar transcriptomic alarm responses. <i>Scientific Reports</i> , 2020, 10, 16281.	3.3	17
44	Transposase binding site methylation in the epigenetically inactivated <i>Ac</i> derivative <i>Ds</i> . <i>Plant Journal</i> , 1998, 13, 577-582.	5.7	16
45	Transposable Elements <i>Ac</i> and <i>Ds</i> at the <i>Shrunken</i> , <i>Waxy</i> , and <i>Alcohol Dehydrogenase 1</i> Loci in <i>Zea mays</i> L.. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1984, 49, 329-338.	1.1	15
46	The binding motifs for <i>Ac</i> transposase are absolutely required for excision of <i>Ds1</i> in maize. <i>Molecular Genetics and Genomics</i> , 1995, 248, 527-534.	2.4	15
47	Somatic and germinal activities of maize Activator (<i>Ac</i>) transposase mutants in transgenic tobacco. <i>Plant Journal</i> , 1995, 8, 45-54.	5.7	15
48	Divergent N Deficiency-Dependent Senescence and Transcriptome Response in Developmentally Old and Young <i>Brassica napus</i> Leaves. <i>Frontiers in Plant Science</i> , 2018, 9, 48.	3.6	13
49	A sensitive, quick and semi-quantitative <i>LacZ</i> assay for the two-hybrid system. <i>Trends in Genetics</i> , 1996, 12, 449-450.	6.7	11
50	Genome size shifts: karyotype evolution in <i>Crepis</i> section <i>Neglectoides</i> (<i>Asteraceae</i>). <i>Plant Biology</i> , 2015, 17, 775-786.	3.8	11
51	Transposition of the bamboo Mariner-like element <i>Ppmar1</i> in yeast. <i>Molecular Phylogenetics and Evolution</i> , 2017, 109, 367-374.	2.7	6
52	The differential response of cold-experienced <i>Arabidopsis thaliana</i> to larval herbivory benefits an insect generalist, but not a specialist. <i>BMC Plant Biology</i> , 2019, 19, 338.	3.6	3
53	Structure and Function of the Maize Transposable Element Activator (<i>Ac</i>). , 1991, , 285-298.		3
54	Priming of <i>Arabidopsis</i> resistance to herbivory by insect egg deposition depends on the plant's developmental stage. <i>Journal of Experimental Botany</i> , 2022, 73, 4996-5015.	4.8	3

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55	Chapter 34 Expression of Plant Proteins in Baculoviral and Bacterial Systems. <i>Methods in Cell Biology</i> , 1995, 50, 461-479.	1.1	1
56	A Highly Conserved Domain of the Maize Activator Transposase Is Involved in Dimerization. <i>Plant Cell</i> , 2000, 12, 211.	6.6	1
57	Binding sites for maize nuclear proteins in the subterminal regions of the transposable element. <i>Molecular Genetics and Genomics</i> , 1996, 251, 428.	2.4	0