Thomas Berberich

List of Publications by Year
in descending order

76 papers	5,421 citations	108046 37 h-index	93651 72 g-index
78 all docs	78 docs citations	78 times ranked	6072 citing authors

#	Article	IF	Citations
1	HsfA7 coordinates the transition from mild to strong heat stress response by controlling the activity of the master regulator HsfA1a in tomato. Cell Reports, 2022, 38, 110224.	2.9	14
2	Resolving Recalcitrant Clades in the Pantropical Ochnaceae: Insights From Comparative Phylogenomics of Plastome and Nuclear Genomic Data Derived From Targeted Sequencing. Frontiers in Plant Science, 2021, 12, 638650.	1.7	18
3	Effect of thermospermine on expression profiling of different gene using massive analysis of cDNA ends (MACE) and vascular maintenance in Arabidopsis. Physiology and Molecular Biology of Plants, 2021, 27, 577-586.	1.4	3
4	Expression profile of seven polyamine oxidase genes in rice (Oryza sativa) in response to abiotic stresses, phytohormones and polyamines. Physiology and Molecular Biology of Plants, 2021, 27, 1353-1359.	1.4	15
5	Phylogenomics of the tropical plant family Ochnaceae using targeted enrichment of nuclear genes and 250+ taxa. Taxon, 2021, 70, 48-71.	0.4	14
6	A Polyamine Oxidase from Selaginella lepidophylla (SelPAO5) can Replace AtPAO5 in Arabidopsis through Converting Thermospermine to Norspermidine instead to Spermidine. Plants, 2019, 8, 99.	1.6	7
7	Abiotic Stress Phenotyping of Polyamine Mutants. Methods in Molecular Biology, 2018, 1694, 389-403.	0.4	3
8	Molecules for Sensing Polyamines and Transducing Their Action in Plants. Methods in Molecular Biology, 2018, 1694, 25-35.	0.4	7
9	Guanine Nucleotide Exchange Factor 7B (RopGEF7B) is involved in floral organ development in Oryza sativa. Rice, 2018, 11, 42.	1.7	9
10	Identification of seven polyamine oxidase genes in tomato (Solanum lycopersicum L.) and their expression profiles under physiological and various stress conditions. Journal of Plant Physiology, 2018, 228, 1-11.	1.6	42
11	Identification of the actual coding region for polyamine oxidase 6 from rice (OsPAO6) and its partial characterization. Plant Signaling and Behavior, 2017, 12, e1359456.	1.2	12
12	Reducing Cytoplasmic Polyamine Oxidase Activity in Arabidopsis Increases Salt and Drought Tolerance by Reducing Reactive Oxygen Species Production and Increasing Defense Gene Expression. Frontiers in Plant Science, 2016, 7, 214.	1.7	46
13	A novel strategy to produce sweeter tomato fruits with high sugar contents by fruitâ€specific expression of a single <scp>bZIP</scp> transcription factor gene. Plant Biotechnology Journal, 2016, 14, 1116-1126.	4.1	64
14	Spermine modulates the expression of two probable polyamine transporter genes and determines growth responses to cadaverine in Arabidopsis. Plant Cell Reports, 2016, 35, 1247-1257.	2.8	10
15	The polyamine spermine induces the unfolded protein response via the MAPK cascade in Arabidopsis. Frontiers in Plant Science, 2015, 6, 687.	1.7	16
16	Polyamines in Plant Stress Response. , 2015, , 155-168.		23
17	The polyamine oxidase from lycophyteSelaginella lepidophylla (SelPAO5), unlike that of angiosperms, backâ€converts thermospermine to norspermidine. FEBS Letters, 2015, 589, 3071-3078.	1.3	18
18	Polyamine Catabolism in Plants. , 2015, , 77-88.		21

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19	Polyamine Homeostasis in Plants: The Role(s) of Evolutionarily Conserved Upstream ORFs. , 2015, , 111-118.		0
20	POLYAMINE OXIDASE 1 from rice (Oryza sativa) is a functional ortholog ofArabidopsisPOLYAMINE OXIDASE 5. Plant Signaling and Behavior, 2014, 9, e29773.	1.2	20
21	Polyamine Oxidase 7 is a Terminal Catabolism-Type Enzyme in Oryza sativa and is Specifically Expressed in Anthers. Plant and Cell Physiology, 2014, 55, 1110-1122.	1.5	61
22	Comparative Analysis ofSorghum bicolorProteome in Response to Drought Stress and following Recovery. International Journal of Proteomics, 2014, 2014, 1-10.	2.0	50
23	Overexpression of rice OsREX1-S, encoding a putative component of the core general transcription and DNA repair factor IIH, renders plant cells tolerant to cadmium- and UV-induced damage by enhancing DNA excision repair. Planta, 2014, 239, 1101-1111.	1.6	9
24	Oryza sativa polyamine oxidase 1 back-converts tetraamines, spermine and thermospermine, to spermidine. Plant Cell Reports, 2014, 33, 143-151.	2.8	54
25	Polyamine Oxidase5 Regulates Arabidopsis Growth through Thermospermine Oxidase Activity Â Â. Plant Physiology, 2014, 165, 1575-1590.	2.3	89
26	Parallel evolution of cox genes in H2S-tolerant fish as key adaptation to a toxic environment. Nature Communications, 2014, 5, 3873.	5.8	75
27	Arabidopsis mutant plants with diverse defects in polyamine metabolism show unequal sensitivity to exogenous cadaverine probably based on their spermine content. Physiology and Molecular Biology of Plants, 2014, 20, 151-159.	1.4	24
28	Longer uncommon polyamines have a stronger defense gene-induction activity and a higher suppressing activity of Cucumber mosaic virus multiplication compared to that of spermine in Arabidopsis thaliana. Plant Cell Reports, 2013, 32, 1477-1488.	2.8	17
29	The polyamine spermine protects Arabidopsis from heat stress-induced damage by increasing expression of heat shock-related genes. Transgenic Research, 2013, 22, 595-605.	1.3	127
30	Phylogenetic relationship and molecular taxonomy of African grasses of the genus Panicum inferred from four chloroplast DNA-barcodes and nuclear gene sequences. Journal of Plant Research, 2013, 126, 363-371.	1.2	12
31	Rice DEP1, encoding a highly cysteine-rich G protein Î³ subunit, confers cadmium tolerance on yeast cells and plants. Journal of Experimental Botany, 2013, 64, 4517-4527.	2.4	64
32	Comparative analysis of barley leaf proteome as affected by drought stress. Planta, 2013, 237, 771-781.	1.6	83
33	The plant heat stress transcription factor (Hsf) family: Structure, function and evolution. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 104-119.	0.9	821
34	Deregulation of Sucrose-Controlled Translation of a bZIP-Type Transcription Factor Results in Sucrose Accumulation in Leaves. PLoS ONE, 2012, 7, e33111.	1.1	48
35	Identification and properties of a small protein that interacts with a tobacco bZIP-type transcription factor TBZF. Plant Biotechnology, 2012, 29, 395-399.	0.5	8
36	Exogenous thermospermine has an activity to induce a subset of the defense genes and restrict cucumber mosaic virus multiplication in Arabidopsis thaliana. Plant Cell Reports, 2012, 31, 1227-1232.	2.8	35

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37	Use of intercellular washing fluid to investigate the secreted proteome of the riceâ€“Magnaporthe interaction. Journal of Plant Research, 2012, 125, 311-316.	1.2	28
38	An inhibitory effect of the sequenceâ€conserved upstream openâ€reading frame on the translation of the main openâ€reading frame of HsfB1 transcripts in Arabidopsis. Plant, Cell and Environment, 2012, 35, 2014-2030.	2.8	53
39	Constitutively and highly expressed Oryza sativa polyamine oxidases localize in peroxisomes and catalyze polyamine back conversion. Amino Acids, 2012, 42, 867-876.	1.2	104
40	A competent extraction method of plant proteins for 2â€D gel electrophoresis. Electrophoresis, 2011, 32, 2975-2978.	1.3	11
41	Spatio-temporal expression analysis of Arabidopsis thaliana spermine synthase gene promoter. Plant Biotechnology, 2011, 28, 407-411.	0.5	7
42	Characterization of five polyamine oxidase isoforms in Arabidopsis thaliana. Plant Cell Reports, 2010, 29, 955-965.	2.8	98
43	Unraveling the roles of sphingolipids in plant innate immunity. Plant Signaling and Behavior, 2009, 4, 536-538.	1.2	6
44	Spermine signaling in defense reaction against avirulent viral pathogen inArabidopsis thaliana. Plant Signaling and Behavior, 2009, 4, 316-318.	1.2	15
45	Voltage-dependent anion channels: their roles in plant defense and cell death. Plant Cell Reports, 2009, 28, 1301-1308.	2.8	64
46	SPM1Ã¢Â€Âƒencoding a vacuole-localized protease is required for infection-related autophagy of the rice blast fungusMagnaporthe oryzae. FEMS Microbiology Letters, 2009, 300, 115-121.	0.7	35
47	Spermine signaling plays a significant role in the defense response of Arabidopsis thaliana to cucumber mosaic virus. Journal of Plant Physiology, 2009, 166, 626-643.	1.6	107
48	Serine Palmitoyltransferase, the First Step Enzyme in Sphingolipid Biosynthesis, Is Involved in Nonhost Resistance. Molecular Plant-Microbe Interactions, 2009, 22, 31-38.	1.4	37
49	Highâ€throughput in planta expression screening identifies an ADPâ€ribosylation factor (ARF1) involved in nonâ€host resistance and R geneâ€mediated resistance. Molecular Plant Pathology, 2008, 9, 25-36.	2.0	38
50	NtbZIP60, an endoplasmic reticulum-localized transcription factor, plays a role in the defense response against bacterial pathogens in Nicotiana tabacum. Journal of Plant Research, 2008, 121, 603-611.	1.2	66
51	Polyamines: essential factors for growth and survival. Planta, 2008, 228, 367-381.	1.6	752
52	NbLRK1, a lectin-like receptor kinase protein of Nicotiana benthamiana, interacts with Phytophthora infestans INF1 elicitin and mediates INF1-induced cell death. Planta, 2008, 228, 977-987.	1.6	108
53	The Polyamine Spermine Rescues Arabidopsis from Salinity and Drought Stresses. Plant Signaling and Behavior, 2007, 2, 251-252.	1.2	52
54	A protective role for the polyamine spermine against drought stress in Arabidopsis. Biochemical and Biophysical Research Communications, 2007, 352, 486-490.	1.0	285

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55	Identification of a novel Cys2/His2-type zinc-finger protein as a component of a spermine-signaling pathway in tobacco. Journal of Plant Physiology, 2007, 164, 785-793.	1.6	19
56	Advances in polyamine research in 2007. Journal of Plant Research, 2007, 120, 345-350.	1.2	247
57	Virus-induced gene silencing of 14-3-3 genes abrogates dark repression of nitrate reductase activity in Nicotiana benthamiana. Molecular Genetics and Genomics, 2007, 278, 125-133.	1.0	4
58	The polyamine spermine protects against high salt stress inArabidopsis thaliana. FEBS Letters, 2006, 580, 6783-6788.	1.3	200
59	Characterization of AtbZIP2, AtbZIP11 and AtbZIP53 from the group S basic region-leucine zipper family in Arabidopsis thaliana. Plant Biotechnology, 2006, 23, 249-258.	0.5	11
60	Changes in gene expression during dehardening of cold-hardened winter rye (Secale cereale L.) leaves and potential role of a peptide methionine sulfoxide reductase in cold-acclimation. Planta, 2005, 220, 941-950.	1.6	20
61	Tobacco ZFT1, a Transcriptional Repressor with a Cys2/His2 Type Zinc Finger Motif that Functions in Spermine-Signaling Pathway. Plant Molecular Biology, 2005, 59, 435-448.	2.0	56
62	High-throughput functional screening of plant and pathogen genes in planta. Plant Biotechnology, 2005, 22, 455-459.	0.5	6
63	LIP19, a Basic Region Leucine Zipper Protein, is a Fos-like Molecular Switch in the Cold Signaling of Rice Plants. Plant and Cell Physiology, 2005, 46, 1623-1634.	1.5	115
64	Production of mouse adiponectin, an anti-diabetic protein, in transgenic sweet potato plants. Journal of Plant Physiology, 2005, 162, 1169-1176.	1.6	22
65	A subset of hypersensitive response marker genes, including HSR203J, is the downstream target of a spermine signal transduction pathway in tobacco. Plant Journal, 2004, 40, 586-595.	2.8	129
66	Identification of Tobacco HIN1 and Two Closely Related Genes as Spermine-Responsive Genes and their Differential Expression During the Tobacco Mosaic Virus-Induced Hypersensitive Response and During Leaf- and Flower-Senescence. Plant Molecular Biology, 2004, 54, 613-622.	2.0	89
67	Spermine signalling in tobacco: activation of mitogen-activated protein kinases by spermine is mediated through mitochondrial dysfunction. Plant Journal, 2003, 36, 820-829.	2.8	132
68	Ntdin, a Tobacco Senescence-Associated Gene, is Involved in Molybdenum Cofactor Biosynthesis. Plant and Cell Physiology, 2003, 44, 1037-1044.	1.5	23
69	Specific Association of Transcripts of tbzF andtbz17, Tobacco Genes Encoding Basic Region Leucine Zipper-Type Transcriptional Activators, with Guard Cells of Senescing Leaves and/or Flowers. Plant Physiology, 2001, 127, 23-32.	2.3	45
70	Diverse response of rice and maize genes encoding homologs of WPK4, an SNF1-related protein kinase from wheat, to light, nutrients, low temperature and cytokinins. Molecular Genetics and Genomics, 2000, 263, 359-366.	2.4	25
71	Involvement of a MAP kinase, ZmMPK5, in senescence and recovery from low-temperature stress in maize. Molecular Genetics and Genomics, 1999, 262, 534-542.	2.4	85
72	Two maize genes encoding omega-3 fatty acid desaturase and their differential expression to temperature. Plant Molecular Biology, 1998, 36, 297-306.	2.0	132

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73	Molecular cloning and partial characterization of a tobacco cDNA encoding a small bZIP protein. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1395, 171-175.	2.4	13
74	Cycloheximide induces a subset of low temperature-inducible genes in maize. Molecular Genetics and Genomics, 1997, 254, 275-283.	2.4	75
75	A maize DNA-binding factor with a bZIP motif is induced by low temperature. Molecular Genetics and Genomics, 1995, 248, 507-517.	2.4	99
76	Molecular cloning, characterization and expression of an elongation factor 1? gene in maize. Plant Molecular Biology, 1995, 29, 611-615.	2.0	65