

Ellen Zuther

List of Publications by Year in descending order

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85
papers

5,154
citations

76326

40
h-index

95266

68
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89
all docs

89
docs citations

89
times ranked

5993
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold stress and freezing tolerance negatively affect the fitness of <i>Arabidopsis thaliana</i> accessions under field and controlled conditions. <i>Planta</i> , 2022, 255, 39.	3.2	11
2	Specific CBF transcription factors and cold-responsive genes fine-tune the early triggering response after acquisition of cold priming and memory. <i>Physiologia Plantarum</i> , 2022, 174, .	5.2	11
3	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase XTH19 influences freezing tolerance after cold and sub-zero acclimation. <i>Plant, Cell and Environment</i> , 2021, 44, 915-930.	5.7	43
4	Natural Variation among <i>Arabidopsis</i> Accessions in the Regulation of Flavonoid Metabolism and Stress Gene Expression by Combined UV Radiation and Cold. <i>Plant and Cell Physiology</i> , 2021, 62, 502-514.	3.1	14
5	Unravelling Differences in Candidate Genes for Drought Tolerance in Potato (<i>Solanum tuberosum</i> L.) by Use of New Functional Microsatellite Markers. <i>Genes</i> , 2021, 12, 494.	2.4	11
6	Stabilization of Dry Sucrose Glasses by Four LEA_4 Proteins from <i>Arabidopsis thaliana</i> . <i>Biomolecules</i> , 2021, 11, 615.	4.0	8
7	Physiological and molecular attributes contribute to high night temperature tolerance in cereals. <i>Plant, Cell and Environment</i> , 2021, 44, 2034-2048.	5.7	16
8	Genome-Wide Approach to Identify Quantitative Trait Loci for Drought Tolerance in Tetraploid Potato (<i>Solanum tuberosum</i> L.). <i>International Journal of Molecular Sciences</i> , 2021, 22, 6123.	4.1	9
9	Characterization of the Heat-Stable Proteome during Seed Germination in <i>Arabidopsis</i> with Special Focus on LEA Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8172.	4.1	12
10	Differentiation of the High Night Temperature Response in Leaf Segments of Rice Cultivars with Contrasting Tolerance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10451.	4.1	2
11	Subcellular Localization of Seed-Expressed LEA_4 Proteins Reveals Liquid-Liquid Phase Separation for LEA9 and for LEA48 Homo- and LEA42-LEA48 Heterodimers. <i>Biomolecules</i> , 2021, 11, 1770.	4.0	13
12	Can Metabolite- and Transcript-Based Selection for Drought Tolerance in <i>Solanum tuberosum</i> Replace Selection on Yield in Arid Environments?. <i>Frontiers in Plant Science</i> , 2020, 11, 1071.	3.6	8
13	Utilizing PacBio Iso-Seq for Novel Transcript and Gene Discovery of Abiotic Stress Responses in <i>Oryza sativa</i> L.. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8148.	4.1	30
14	Season Affects Yield and Metabolic Profiles of Rice (<i>Oryza sativa</i>) under High Night Temperature Stress in the Field. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3187.	4.1	21
15	Characterisation of the ERF102 to ERF105 genes of <i>Arabidopsis thaliana</i> and their role in the response to cold stress. <i>Plant Molecular Biology</i> , 2020, 103, 303-320.	3.9	41
16	Evaluation of Seven Different RNA-Seq Alignment Tools Based on Experimental Data from the Model Plant <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 1720.	4.1	29
17	Transcriptional and Post-Transcriptional Regulation and Transcriptional Memory of Chromatin Regulators in Response to Low Temperature. <i>Frontiers in Plant Science</i> , 2020, 11, 39.	3.6	26
18	Repair of sub-lethal freezing damage in leaves of <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2020, 20, 35.	3.6	8

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19	Introduction: Plant Cold Acclimation and Winter Survival. <i>Methods in Molecular Biology</i> , 2020, 2156, 1-7.	0.9	18
20	Analysis of Changes in Plant Cell Wall and Structure During Cold Acclimation. <i>Methods in Molecular Biology</i> , 2020, 2156, 255-268.	0.9	4
21	Measuring Freezing Tolerance of Leaves and Rosettes: Electrolyte Leakage and Chlorophyll Fluorescence Assays. <i>Methods in Molecular Biology</i> , 2020, 2156, 9-21.	0.9	9
22	Molecular signatures associated with increased freezing tolerance due to low temperature memory in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2019, 42, 854-873.	5.7	89
23	Metabolic responses of rice source and sink organs during recovery from combined drought and heat stress in the field. <i>GigaScience</i> , 2019, 8, .	6.4	14
24	Deacclimation after cold acclimation—a crucial, but widely neglected part of plant winter survival. <i>Journal of Experimental Botany</i> , 2019, 70, 4595-4604.	4.8	73
25	Metabolic responses of rice cultivars with different tolerance to combined drought and heat stress under field conditions. <i>GigaScience</i> , 2019, 8, .	6.4	52
26	Transcriptome analysis reveals potential roles of a barley ASR gene that confers stress tolerance in transgenic rice. <i>Journal of Plant Physiology</i> , 2019, 238, 29-39.	3.5	8
27	Both cold and sub-zero acclimation induce cell wall modification and changes in the extracellular proteome in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2019, 9, 2289.	3.3	51
28	Induced, Imprinted, and Primed Responses to Changing Environments: Does Metabolism Store and Process Information?. <i>Frontiers in Plant Science</i> , 2019, 10, 106.	3.6	63
29	Opposite fates of the purine metabolite allantoin under water and nitrogen limitations in bread wheat. <i>Plant Molecular Biology</i> , 2019, 99, 477-497.	3.9	41
30	Plant Temperature Acclimation and Growth Rely on Cytosolic Ribosome Biogenesis Factor Homologs. <i>Plant Physiology</i> , 2018, 176, 2251-2276.	4.8	39
31	Molecular mechanisms of combined heat and drought stress resilience in cereals. <i>Current Opinion in Plant Biology</i> , 2018, 45, 212-217.	7.1	68
32	Metabolite and transcript markers for the prediction of potato drought tolerance. <i>Plant Biotechnology Journal</i> , 2018, 16, 939-950.	8.3	68
33	Natural Variation in Freezing Tolerance and Cold Acclimation Response in <i>Arabidopsis thaliana</i> and Related Species. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 81-98.	1.6	16
34	Combined drought and heat stress impact during flowering and grain filling in contrasting rice cultivars grown under field conditions. <i>Field Crops Research</i> , 2018, 229, 66-77.	5.1	61
35	Ecotype-Dependent Response of Bacterial Communities Associated with <i>Arabidopsis</i> to Cold Acclimation. <i>Phytobiomes Journal</i> , 2018, 2, 3-13.	2.7	8
36	Impact of seasonal warming on overwintering and spring phenology of blackcurrant. <i>Environmental and Experimental Botany</i> , 2017, 140, 96-109.	4.2	21

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37	Integrated analysis of rice transcriptomic and metabolomic responses to elevated night temperatures identifies sensitivity- and tolerance-related profiles. <i>Plant, Cell and Environment</i> , 2017, 40, 121-137.	5.7	54
38	<i>ERF105</i> is a transcription factor gene of <i>Arabidopsis thaliana</i> required for freezing tolerance and cold acclimation. <i>Plant, Cell and Environment</i> , 2017, 40, 108-120.	5.7	102
39	Rapid transcriptional and metabolic regulation of the deacclimation process in cold acclimated <i>Arabidopsis thaliana</i> . <i>BMC Genomics</i> , 2017, 18, 731.	2.8	68
40	Rootstock Sub-Optimal Temperature Tolerance Determines Transcriptomic Responses after Long-Term Root Cooling in Rootstocks and Scions of Grafted Tomato Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 911.	3.6	32
41	Natural Variation of Cold Deacclimation Correlates with Variation of Cold-Acclimation of the Plastid Antioxidant System in <i>Arabidopsis thaliana</i> Accessions. <i>Frontiers in Plant Science</i> , 2016, 7, 305.	3.6	51
42	Priming and memory of stress responses in organisms lacking a nervous system. <i>Biological Reviews</i> , 2016, 91, 1118-1133.	10.4	388
43	The drought response of potato reference cultivars with contrasting tolerance. <i>Plant, Cell and Environment</i> , 2016, 39, 2370-2389.	5.7	66
44	Flavonoids are determinants of freezing tolerance and cold acclimation in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2016, 6, 34027.	3.3	209
45	Salt stress responses in a geographically diverse collection of <i>Eutrema/Thellungiella</i> spp. accessions. <i>Functional Plant Biology</i> , 2016, 43, 590.	2.1	17
46	Metabolite Profiling Reveals Sensitivity-Dependent Metabolic Shifts in Rice (<i>Oryza Sativa</i> L.) Cultivars under High Night Temperature Stress. <i>Procedia Environmental Sciences</i> , 2015, 29, 72.	1.4	4
47	Natural variation in flavonol and anthocyanin metabolism during cold acclimation in <i>Arabidopsis thaliana</i> accessions. <i>Plant, Cell and Environment</i> , 2015, 38, 1658-1672.	5.7	126
48	Time-dependent deacclimation after cold acclimation in <i>Arabidopsis thaliana</i> accessions. <i>Scientific Reports</i> , 2015, 5, 12199.	3.3	69
49	Metabolic and transcriptomic signatures of rice floral organs reveal sugar starvation as a factor in reproductive failure under heat and drought stress. <i>Plant, Cell and Environment</i> , 2015, 38, 2171-2192.	5.7	164
50	Assessment of drought tolerance and its potential yield penalty in potato. <i>Functional Plant Biology</i> , 2015, 42, 655.	2.1	26
51	High night temperature strongly impacts TCA cycle, amino acid and polyamine biosynthetic pathways in rice in a sensitivity-dependent manner. <i>Journal of Experimental Botany</i> , 2015, 66, 6385-6397.	4.8	86
52	Sugar Starvation of Rice Anthers is a Factor in Reproductive Failure under Heat and Drought Stress, as shown by Metabolite and Transcript Profiling. <i>Procedia Environmental Sciences</i> , 2015, 29, 70-71.	1.4	0
53	Changes in free polyamine levels, expression of polyamine biosynthesis genes, and performance of rice cultivars under salt stress: a comparison with responses to drought. <i>Frontiers in Plant Science</i> , 2014, 5, 182.	3.6	68
54	A study on ABA involvement in the response of tomato to suboptimal root temperature using reciprocal grafts with <i>notabilis</i> , a null mutant in the ABA-biosynthesis gene <i>LeNCED1</i> . <i>Environmental and Experimental Botany</i> , 2014, 97, 11-21.	4.2	27

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55	Differential physiological responses of different rice (<i>Oryza sativa</i>) cultivars to elevated night temperature during vegetative growth. <i>Functional Plant Biology</i> , 2014, 41, 437.	2.1	45
56	Introduction: Plant Cold Acclimation and Freezing Tolerance. <i>Methods in Molecular Biology</i> , 2014, 1166, 1-6.	0.9	23
57	Measuring Freezing Tolerance: Electrolyte Leakage and Chlorophyll Fluorescence Assays. <i>Methods in Molecular Biology</i> , 2014, 1166, 15-24.	0.9	71
58	Dissecting Rice Polyamine Metabolism under Controlled Long-Term Drought Stress. <i>PLoS ONE</i> , 2013, 8, e60325.	2.5	120
59	Identification of Drought Tolerance Markers in a Diverse Population of Rice Cultivars by Expression and Metabolite Profiling. <i>PLoS ONE</i> , 2013, 8, e63637.	2.5	119
60	Comparison of freezing tolerance, compatible solutes and polyamines in geographically diverse collections of <i>Thellungiella</i> sp. and <i>Arabidopsis thaliana</i> accessions. <i>BMC Plant Biology</i> , 2012, 12, 131.	3.6	76
61	Conducting Molecular Biomarker Discovery Studies in Plants. <i>Methods in Molecular Biology</i> , 2012, 918, 127-150.	0.9	6
62	Differential remodeling of the lipidome during cold acclimation in natural accessions of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2012, 72, 972-982.	5.7	171
63	Clinal variation in the non-acclimated and cold-acclimated freezing tolerance of <i>Arabidopsis thaliana</i> accessions. <i>Plant, Cell and Environment</i> , 2012, 35, 1860-1878.	5.7	145
64	Natural variation in the freezing tolerance of <i>Arabidopsis thaliana</i> : Effects of RNAi-induced CBF depletion and QTL localisation vary among accessions. <i>Plant Science</i> , 2011, 180, 12-23.	3.6	31
65	Evidence against sink limitation by the sucrose-to-starch route in potato plants expressing fructosyltransferases. <i>Physiologia Plantarum</i> , 2011, 143, 115-125.	5.2	6
66	Interaction with Diurnal and Circadian Regulation Results in Dynamic Metabolic and Transcriptional Changes during Cold Acclimation in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2010, 5, e14101.	2.5	146
67	Expression profiling of rice cultivars differing in their tolerance to long-term drought stress. <i>Plant Molecular Biology</i> , 2009, 69, 133-153.	3.9	207
68	Natural variation in CBF gene sequence, gene expression and freezing tolerance in the Versailles core collection of <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2008, 8, 105.	3.6	84
69	Combined Metabolomic and Genetic Approaches Reveal a Link between the Polyamine Pathway and Albumin 2 in Developing Pea Seeds. <i>Plant Physiology</i> , 2008, 146, 74-82.	4.8	73
70	Comparative Metabolome Analysis of the Salt Response in Breeding Cultivars of Rice. , 2007, , 285-315.		54
71	Fructans from oat and rye: Composition and effects on membrane stability during drying. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1611-1619.	2.6	83
72	Transport and metabolism of raffinose family oligosaccharides in transgenic potato. <i>Journal of Experimental Botany</i> , 2006, 57, 3801-3811.	4.8	42

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73	Tissue-specific changes in remobilisation of fructan in the xerophytic tussock species <i>Festuca novae-zelandiae</i> in response to a water deficit. <i>Functional Plant Biology</i> , 2004, 31, 377.	2.1	20
74	Expression of a yeast-derived invertase in companion cells results in long-distance transport of a trisaccharide in an apoplastic loader and influences sucrose transport. <i>Planta</i> , 2004, 218, 759-766.	3.2	29
75	The role of raffinose in the cold acclimation response of <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2004, 576, 169-173.	2.8	177
76	Overexpression of the sucrose transporter SoSUT1 in potato results in alterations in leaf carbon partitioning and in tuber metabolism but has little impact on tuber morphology. <i>Planta</i> , 2003, 217, 158-167.	3.2	101
77	Expression of Cytosolic and Plastid Acetyl-Coenzyme A Carboxylase Genes in Young Wheat Plants,. <i>Plant Physiology</i> , 2003, 131, 763-772.	4.8	27
78	A photosystem I <i>psaFJ</i> -null mutant of the cyanobacterium <i>Synechocystis</i> PCC 6803 expresses the <i>isiA</i> operon under iron replete conditions. <i>FEBS Letters</i> , 2003, 549, 52-56.	2.8	59
79	The preservation of liposomes by raffinose family oligosaccharides during drying is mediated by effects on fusion and lipid phase transitions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1612, 172-177.	2.6	159
80	Specific effects of fructo- and gluco-oligosaccharides in the preservation of liposomes during drying. <i>Glycobiology</i> , 2002, 12, 103-110.	2.5	182
81	Subcellular localization of acetyl-CoA carboxylase in the apicomplexan parasite <i>Toxoplasma gondii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2723-2728.	7.1	107
82	The <i>ggpS</i> Gene from <i>Synechocystis</i> sp. Strain PCC 6803 Encoding Glucosyl-Glycerol-Phosphate Synthase Is Involved in Osmolyte Synthesis. <i>Journal of Bacteriology</i> , 1998, 180, 4843-4849.	2.2	80
83	Mutation of a Gene Encoding a Putative Glycoprotease Leads to Reduced Salt Tolerance, Altered Pigmentation, and Cyanophycin Accumulation in the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803. <i>Journal of Bacteriology</i> , 1998, 180, 1715-1722.	2.2	36
84	Characterization of a glucosylglycerol-phosphate-accumulating, salt-sensitive mutant of the cyanobacterium <i>Synechocystis</i> sp. strain PCC 6803. <i>Archives of Microbiology</i> , 1996, 166, 83-91.	2.2	31
85	Selection and characterization of mutants of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 unable to tolerate high salt concentrations. <i>Archives of Microbiology</i> , 1992, 158, 429.	2.2	43