

Susanne Barth

List of Publications by Year in descending order

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66
papers

1,971
citations

201674

27
h-index

265206

42
g-index

70
all docs

70
docs citations

70
times ranked

2475
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized hypermutation and associated gene losses in legume chloroplast genomes. <i>Genome Research</i> , 2010, 20, 1700-1710.	5.5	244
2	Heterosis for biomass yield and related traits in five hybrids of <i>Arabidopsis thaliana</i> L. Heynh. <i>Heredity</i> , 2003, 91, 36-42.	2.6	86
3	Genetic diversity in <i>Arabidopsis thaliana</i> L. Heynh. investigated by cleaved amplified polymorphic sequence (CAPS) and inter-simple sequence repeat (ISSR) markers. <i>Molecular Ecology</i> , 2002, 11, 495-505.	3.9	80
4	Transcriptional and metabolic profiles of <i>Lolium perenne</i> L. genotypes in response to a PEG-induced water stress. <i>Plant Biotechnology Journal</i> , 2009, 7, 719-732.	8.3	79
5	A Gene Encoding a DUF247 Domain Protein Cosegregates with the <i>S</i> Self-Incompatibility Locus in Perennial Ryegrass. <i>Molecular Biology and Evolution</i> , 2016, 33, 870-884.	8.9	78
6	Complete Chloroplast Genome Sequence of a Major Allogamous Forage Species, Perennial Ryegrass (<i>Lolium perenne</i> L.). <i>DNA Research</i> , 2009, 16, 165-176.	3.4	72
7	Genome biology of the paleotetraploid perennial biomass crop <i>Miscanthus</i> . <i>Nature Communications</i> , 2020, 11, 5442.	12.8	67
8	Analysis of a Triple Testcross Design With Recombinant Inbred Lines Reveals a Significant Role of Epistasis in Heterosis for Biomass-Related Traits in <i>Arabidopsis</i> . <i>Genetics</i> , 2007, 175, 2009-2017.	2.9	65
9	Early response mechanisms of perennial ryegrass (<i>Lolium perenne</i>) to phosphorus deficiency. <i>Annals of Botany</i> , 2011, 107, 243-254.	2.9	60
10	How far are we from unravelling self-incompatibility in grasses?. <i>New Phytologist</i> , 2008, 178, 740-753.	7.3	59
11	Genetic diversity in European perennial ryegrass cultivars investigated with RAPD markers. <i>Plant Breeding</i> , 2005, 124, 161-166.	1.9	56
12	Segregation distortion in <i>Lolium</i> : evidence for genetic effects. <i>Theoretical and Applied Genetics</i> , 2008, 117, 297-306.	3.6	54
13	Progress towards elucidating the mechanisms of self-incompatibility in the grasses: further insights from studies in <i>Lolium</i> . <i>Annals of Botany</i> , 2011, 108, 677-685.	2.9	49
14	An Optimized Chloroplast DNA Extraction Protocol for Grasses (Poaceae) Proves Suitable for Whole Plastid Genome Sequencing and SNP Detection. <i>PLoS ONE</i> , 2008, 3, e2813.	2.5	49
15	EST-derived SSR markers used as anchor loci for the construction of a consensus linkage map in ryegrass (<i>Lolium</i> spp.). <i>BMC Plant Biology</i> , 2010, 10, 177.	3.6	42
16	Short-term response in leaf metabolism of perennial ryegrass (<i>Lolium perenne</i>) to alterations in nitrogen supply. <i>Metabolomics</i> , 2013, 9, 145-156.	3.0	42
17	Molecular genetic diversity within and among German ecotypes in comparison to European perennial ryegrass cultivars. <i>Plant Breeding</i> , 2005, 124, 257-262.	1.9	40
18	Extremely high cytoplasmic diversity in natural and breeding populations of <i>Lolium</i> (Poaceae). <i>Heredity</i> , 2007, 99, 531-544.	2.6	40

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19	Chloroplast DNA markers (cpSSRs, SNPs) for <i>Miscanthus</i> , <i>Saccharum</i> and related grasses (Panicoideae.) Tj ETQq1 1,0,784314 rgBT /Ove	2.1	40
20	Monitoring <i>Lactobacillus plantarum</i> in grass silages with the aid of 16S rDNA-based quantitative real-time PCR assays. <i>Systematic and Applied Microbiology</i> , 2006, 29, 49-58.	2.8	38
21	<i>Miscanthus</i> : a case study for the utilization of natural genetic variation. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2015, 13, 219-237.	0.8	37
22	Identification of coincident QTL for days to heading, spike length and spikelets per spike in <i>Lolium perenne</i> L. <i>Euphytica</i> , 2009, 166, 61-70.	1.2	33
23	New chloroplast microsatellite markers suitable for assessing genetic diversity of <i>Lolium perenne</i> and other related grass species. <i>Annals of Botany</i> , 2012, 110, 1327-1339.	2.9	33
24	Expressed sequence tag-derived microsatellite markers of perennial ryegrass (<i>Lolium perenne</i> L.). <i>Molecular Breeding</i> , 2008, 21, 533-548.	2.1	31
25	An ultra-high density genetic linkage map of perennial ryegrass (<i>Lolium perenne</i>) using genotyping by sequencing (GBS) based on a reference shotgun genome assembly. <i>Annals of Botany</i> , 2016, 118, 71-87.	2.9	31
26	Quantitative trait loci mapping for biomass yield traits in a <i>Lolium</i> inbred line derived F2 population. <i>Euphytica</i> , 2009, 170, 99-107.	1.2	30
27	Plastid genome sequencing reveals biogeographical structure and extensive population genetic variation in wild populations of <i>Phalaris arundinacea</i> L. in northwestern Europe. <i>GCB Bioenergy</i> , 2017, 9, 46-56.	5.6	30
28	Identification of ABC transporters from <i>Lolium perenne</i> L. that are regulated by toxic levels of selenium. <i>Planta</i> , 2010, 231, 901-911.	3.2	29
29	Influence of genetic background and heterozygosity on meiotic recombination in <i>Arabidopsis thaliana</i> . <i>Genome</i> , 2001, 44, 971-978.	2.0	28
30	Identification of genes expressed during the self-incompatibility response in perennial ryegrass (<i>Lolium perenne</i> L.). <i>Plant Molecular Biology</i> , 2009, 70, 709-723.	3.9	28
31	Genotypes and phenotypes of an ex situ <i>Vitis vinifera</i> ssp. <i>sylvestris</i> (Gmel.) Beger germplasm collection from the Upper Rhine Valley. <i>Genetic Resources and Crop Evolution</i> , 2009, 56, 1171-1181.	1.6	22
32	Molecular characterization of genetic diversity in European germplasm of perennial ryegrass. <i>Euphytica</i> , 2005, 146, 39-44.	1.2	21
33	A high-throughput system for genome-wide measurement of genetic recombination in <i>Arabidopsis thaliana</i> based on transgenic markers. <i>Functional and Integrative Genomics</i> , 2000, 1, 200-206.	3.5	19
34	A hybrid next generation transcript sequencing-based approach to identify allelic and homeolog-specific single nucleotide polymorphisms in allotetraploid white clover. <i>BMC Genomics</i> , 2013, 14, 100.	2.8	18
35	Development and testing of novel chloroplast microsatellite markers for <i>Lolium perenne</i> and other grasses (Poaceae) from de novo sequencing and in silico sequences. <i>Molecular Ecology Notes</i> , 2006, 6, 449-452.	1.7	17
36	The genetic location of the self-incompatibility locus in white clover (<i>Trifolium repens</i> L.). <i>Theoretical and Applied Genetics</i> , 2010, 121, 567-576.	3.6	17

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37	Genetic linkage mapping in an F2 perennial ryegrass population using DArT markers. <i>Plant Breeding</i> , 2012, 131, 345-349.	1.9	17
38	Using variable importance measures to identify a small set of SNPs to predict heading date in perennial ryegrass. <i>Scientific Reports</i> , 2017, 7, 3566.	3.3	17
39	Markers associated with heading and aftermath heading in perennial ryegrass full-sib families. <i>BMC Plant Biology</i> , 2016, 16, 160.	3.6	16
40	Comparative exomics of Phalariscultivars under salt stress. <i>BMC Genomics</i> , 2014, 15, S18.	2.8	13
41	Physiological and transcriptional response to drought stress among bioenergy grass <i>Miscanthus</i> species. <i>Biotechnology for Biofuels</i> , 2021, 14, 60.	6.2	13
42	Experimental comparison of two methods to study barley responses to partial submergence. <i>Plant Methods</i> , 2021, 17, 40.	4.3	13
43	Variation in inflorescence characters and inflorescence development in ecotypes and cultivars of <i>Lolium perenne</i> L. <i>Grass and Forage Science</i> , 2010, 65, 398-409.	2.9	12
44	Quantitative trait loci analysis to study the genetic regulation of non-polar metabolites in perennial ryegrass. <i>Metabolomics</i> , 2015, 11, 412-424.	3.0	11
45	First Report on Assessing the Severity of Herbicide Resistance to ACCase Inhibitors Pinoxaden, Propaquizafop and Cycloxydim in Six <i>Avena fatua</i> Populations in Ireland. <i>Agronomy</i> , 2020, 10, 1362.	3.0	8
46	Nuclear SSR Markers for <i>Miscanthus</i> , <i>Saccharum</i> , and Related Grasses (Saccharinae, Poaceae). <i>Applications in Plant Sciences</i> , 2013, 1, 1300042.	2.1	7
47	Transcriptome characterization and differentially expressed genes under flooding and drought stress in the biomass grasses <i>Phalaris arundinacea</i> and <i>Dactylis glomerata</i> . <i>Annals of Botany</i> , 2019, 124, 717-730.	2.9	7
48	Genotyping by Sequencing and Plastome Analysis Finds High Genetic Variability and Geographical Structure in <i>Dactylis glomerata</i> L. in Northwest Europe Despite Lack of Ploidy Variation. <i>Agronomy</i> , 2019, 9, 342.	3.0	6
49	Transcriptome sequencing of <i>Festulolium</i> accessions under salt stress. <i>BMC Research Notes</i> , 2019, 12, 311.	1.4	6
50	A new genetic locus for self-compatibility in the outcrossing grass species perennial ryegrass (<i>Lolium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.9	6
51	Improving phenotyping in winter barley cultivars towards waterlogging tolerance by combining field trials under natural conditions with controlled growth condition experiments. <i>European Journal of Agronomy</i> , 2022, 133, 126432.	4.1	6
52	A novel 3D X-ray computed tomography (CT) method for spatio-temporal evaluation of waterlogging-induced aerenchyma formation in barley. <i>The Plant Phenome Journal</i> , 2022, 5, .	2.0	6
53	Fine Mapping of Quantitative Trait Loci for Biomass Yield in Perennial Ryegrass. , 2010, , 461-464.		5
54	Breeding strategies for forage and grass improvement. <i>Annals of Botany</i> , 2012, 110, 1261-1262.	2.9	5

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55	Variation in sequences containing microsatellite motifs in the perennial biomass and forage grass, <i>Phalaris arundinacea</i> (Poaceae). <i>BMC Research Notes</i> , 2016, 9, 184.	1.4	5
56	An Immortalized Genetic Mapping Population for Perennial Ryegrass: A Resource for Phenotyping and Complex Trait Mapping. <i>Frontiers in Plant Science</i> , 2018, 9, 717.	3.6	5
57	Influence of genetic background and heterozygosity on meiotic recombination in <i>Arabidopsis thaliana</i> . <i>Genome</i> , 2001, 44, 971-978.	2.0	5
58	First Detection and Characterization of Cross- and Multiple Resistance to Acetyl-CoA Carboxylase (ACCase)- and Acetolactate Synthase (ALS)-Inhibiting Herbicides in Black-Grass (<i>Alopecurus</i>) (Switzerland), 2021, 11, 1272.	3.1	5
59	Seasonal and genetic variations in water-soluble carbohydrates and other quality traits in ecotypes and cultivars of perennial ryegrass (<i>Lolium perenne</i> L.). <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2014, 12, 236-247.	0.8	4
60	Identification of genes involved in the floral transition at the shoot apical meristem of <i>Lolium perenne</i> L. by use of suppression subtractive hybridisation. <i>Plant Growth Regulation</i> , 2009, 59, 215-225.	3.4	2
61	Old Age Sex: A Parentage Study of Different Age Cohorts in a Native Veteran Pedunculate Oak (<i>Quercus Robur L.</i>) Woodland Using Microsatellite Markers. <i>Biology and Environment</i> , 2013, 113, 1-13.	0.3	2
62	An Irish perennial ryegrass genetic resource collection clearly divides into two major gene pools. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2017, 15, 269-278.	0.8	1
63	Quantitative trait loci associated with different polar metabolites in perennial ryegrass - providing scope for breeding towards increasing certain polar metabolites. <i>BMC Genetics</i> , 2017, 18, 84.	2.7	1
64	Diurnal patterns of growth and transient reserves of sink and source tissues are affected by cold nights in barley. <i>Plant, Cell and Environment</i> , 2020, 43, 1404-1420.	5.7	1
65	Understanding the Genetic Basis of Flowering and Fertility in the Ryegrasses (<i>Lolium</i> spp.). , 2009, , 185-192.		1
66	The Complete Chloroplast Genome Sequence of Perennial Ryegrass (<i>Lolium perenne</i> L.) Reveals Useful Polymorphisms Among European Ecotypes. , 2010, , 409-413.		1