

Iwona Szarejko

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,263
citations

172457

29
h-index

168389

53
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79
all docs

79
docs citations

79
times ranked

4222
citing authors

#	ARTICLE	IF	CITATIONS
1	Open or Close the Gate – Stomata Action Under the Control of Phytohormones in Drought Stress Conditions. <i>Frontiers in Plant Science</i> , 2013, 4, 138.	3.6	417
2	The Role and Regulation of ABI5 (ABA-Insensitive 5) in Plant Development, Abiotic Stress Responses and Phytohormone Crosstalk. <i>Frontiers in Plant Science</i> , 2016, 7, 1884.	3.6	362
3	TILLING - a shortcut in functional genomics. <i>Journal of Applied Genetics</i> , 2011, 52, 371-390.	1.9	184
4	Gene expression regulation in roots under drought. <i>Journal of Experimental Botany</i> , 2016, 67, 1003-1014.	4.8	146
5	Enhanced waterlogging tolerance in barley by manipulation of expression of the N-end rule pathway E3 ligase <i>PROTEOLYSIS</i> . <i>Plant Biotechnology Journal</i> , 2016, 14, 40-50.	8.3	122
6	Molecular Cloning and Characterization of Î²-Expansin Gene Related to Root Hair Formation in Barley. <i>Plant Physiology</i> , 2006, 141, 1149-1158.	4.8	121
7	Root Hair Mutations Displace the Barley Rhizosphere Microbiota. <i>Frontiers in Plant Science</i> , 2017, 8, 1094.	3.6	85
8	Transcriptome analysis reveals the role of the root hairs as environmental sensors to maintain plant functions under water-deficiency conditions. <i>Journal of Experimental Botany</i> , 2016, 67, 1079-1094.	4.8	80
9	Water-deficiency conditions differently modulate the methylome of roots and leaves in barley (<i>Hordeum vulgare</i> L.). <i>Journal of Experimental Botany</i> , 2016, 67, 1109-1121.	4.8	72
10	HorTILLUS – A Rich and Renewable Source of Induced Mutations for Forward/Reverse Genetics and Pre-breeding Programs in Barley (<i>Hordeum vulgare</i> L.). <i>Frontiers in Plant Science</i> , 2018, 9, 216.	3.6	71
11	No Time to Waste: Transcriptome Study Reveals that Drought Tolerance in Barley May Be Attributed to Stressed-Like Expression Patterns that Exist before the Occurrence of Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 2212.	3.6	66
12	Quantitative Trait Loci for Yield and Yield-Related Traits in Spring Barley Populations Derived from Crosses between European and Syrian Cultivars. <i>PLoS ONE</i> , 2016, 11, e0155938.	2.5	63
13	Molecular analysis of point mutations in a barley genome exposed to MNU and gamma rays. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 738-739, 52-70.	1.0	55
14	Barley Brassinosteroid Mutants Provide an Insight into Phytohormonal Homeostasis in Plant Reaction to Drought Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 1824.	3.6	55
15	Identification and functional analysis of the <i>HvD14</i> gene involved in strigolactone signaling in <i>Hordeum vulgare</i> . <i>Physiologia Plantarum</i> , 2016, 158, 341-355.	5.2	54
16	Barley ABI5 (Abscisic Acid INSENSITIVE 5) Is Involved in Abscisic Acid-Dependent Drought Response. <i>Frontiers in Plant Science</i> , 2020, 11, 1138.	3.6	51
17	Quantitative trait loci for plant height in Maresi – CamB barley population and their associations with yield-related traits under different water regimes. <i>Journal of Applied Genetics</i> , 2017, 58, 23-35.	1.9	49
18	Updates on the Role of ABSCISIC ACID INSENSITIVE 5 (ABI5) and ABSCISIC ACID-RESPONSIVE ELEMENT BINDING FACTORS (ABFs) in ABA Signaling in Different Developmental Stages in Plants. <i>Cells</i> , 2021, 10, 1996.	4.1	49

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19	Asymmetric growth of root epidermal cells is related to the differentiation of root hair cells in <i>Hordeum vulgare</i> (L.). <i>Journal of Experimental Botany</i> , 2013, 64, 5145-5155.	4.8	48
20	Mutation in HvCBP20 (Cap Binding Protein 20) Adapts Barley to Drought Stress at Phenotypic and Transcriptomic Levels. <i>Frontiers in Plant Science</i> , 2017, 8, 942.	3.6	48
21	QTLs for earliness and yield-forming traits in the Lubuski CamB barley RIL population under various water regimes. <i>Journal of Applied Genetics</i> , 2017, 58, 49-65.	1.9	46
22	Accumulation of peroxidase-related reactive oxygen species in trichoblasts correlates with root hair initiation in barley. <i>Journal of Plant Physiology</i> , 2013, 170, 185-195.	3.5	45
23	Analysis of aluminum toxicity in <i>Hordeum vulgare</i> roots with an emphasis on DNA integrity and cell cycle. <i>PLoS ONE</i> , 2018, 13, e0193156.	2.5	45
24	Root Hair Development in the Grasses: What We Already Know and What We Still Need to Know. <i>Plant Physiology</i> , 2015, 168, 407-414.	4.8	41
25	Identification of barley DWARF gene involved in brassinosteroid synthesis. <i>Plant Growth Regulation</i> , 2011, 65, 343-358.	3.4	38
26	Arabinogalactan proteins are involved in root hair development in barley. <i>Journal of Experimental Botany</i> , 2015, 66, 1245-1257.	4.8	34
27	Aluminum Alters the Histology and Pectin Cell Wall Composition of Barley Roots. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3039.	4.1	34
28	Drought stress and re-watering affect the abundance of TIP aquaporin transcripts in barley. <i>PLoS ONE</i> , 2019, 14, e0226423.	2.5	34
29	The evolutionary context of root epidermis cell patterning in grasses (Poaceae). <i>Plant Signaling and Behavior</i> , 2014, 9, e27972.	2.4	33
30	<i>Arabidopsis</i> suppressor mutant of <i>abh1</i> shows a new face of the already known players: ABH1 (CBP80) and ABI4 in response to ABA and abiotic stresses during seed germination. <i>Plant Molecular Biology</i> , 2013, 81, 189-209.	3.9	32
31	Methylation Sensitive Amplification Polymorphism Sequencing (MSAP-Seq) A Method for High-Throughput Analysis of Differentially Methylated CCGG Sites in Plants with Large Genomes. <i>Frontiers in Plant Science</i> , 2017, 8, 2056.	3.6	32
32	Mutation Detection by Analysis of DNA Heteroduplexes in TILLING Populations of Diploid Species. , 2017, , 281-303.		31
33	Prioritization of Candidate Genes in QTL Regions for Physiological and Biochemical Traits Underlying Drought Response in Barley (<i>Hordeum vulgare</i> L.). <i>Frontiers in Plant Science</i> , 2018, 9, 769.	3.6	31
34	Global analysis of the root hair morphogenesis transcriptome reveals new candidate genes involved in root hair formation in barley. <i>Journal of Plant Physiology</i> , 2010, 167, 1076-1083.	3.5	30
35	New allele of HvBR11 gene encoding brassinosteroid receptor in barley. <i>Journal of Applied Genetics</i> , 2011, 52, 257-268.	1.9	30
36	iRootHair: A Comprehensive Root Hair Genomics Database. <i>Plant Physiology</i> , 2012, 161, 28-35.	4.8	30

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37	Insights into Barley Root Transcriptome under Mild Drought Stress with an Emphasis on Gene Expression Regulatory Mechanisms. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6139.	4.1	30
38	Genetic and Physiological Dissection of Photosynthesis in Barley Exposed to Drought Stress. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6341.	4.1	30
39	Vernalization and photoperiod-related changes in the DNA methylation state in winter and spring rapeseed. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 817-827.	2.1	29
40	A Reverse-Genetics Mutational Analysis of the Barley HvDWARF Gene Results in Identification of a Series of Alleles and Mutants with Short Stature of Various Degree and Disturbance in BR Biosynthesis Allowing a New Insight into the Process. <i>International Journal of Molecular Sciences</i> , 2016, 17, 600.	4.1	29
41	Morphological, genetic and molecular characteristics of barley root hair mutants. <i>Journal of Applied Genetics</i> , 2014, 55, 433-447.	1.9	27
42	Barley strigolactone signalling mutant <i>hvd14.d</i> reveals the role of strigolactones in abscisic acid-dependent response to drought. <i>Plant, Cell and Environment</i> , 2020, 43, 2239-2253.	5.7	25
43	Aluminum or Low pH – Which Is the Bigger Enemy of Barley? Transcriptome Analysis of Barley Root Meristem Under Al and Low pH Stress. <i>Frontiers in Genetics</i> , 2021, 12, 675260.	2.3	21
44	Unexpected genetic diversity of <i>Fallopia japonica</i> from Central Europe revealed after AFLP analysis. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012, 207, 636-645.	1.2	20
45	Methyl Jasmonate Affects Photosynthesis Efficiency, Expression of HvTIP Genes and Nitrogen Homeostasis in Barley. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4335.	4.1	20
46	Different recombination frequencies in wheat doubled haploid populations obtained through maize pollination and anther culture. <i>Euphytica</i> , 2007, 156, 173-183.	1.2	17
47	A comparative analysis of proteins that accumulate during the initial stage of root hair development in barley root hair mutants and their parent varieties. <i>Journal of Applied Genetics</i> , 2012, 53, 363-376.	1.9	17
48	Mutation in barley ERA1 (Enhanced Response to ABA1) gene confers better photosynthesis efficiency in response to drought as revealed by transcriptomic and physiological analysis. <i>Environmental and Experimental Botany</i> , 2018, 148, 12-26.	4.2	17
49	The dmc1 Mutant Allows an Insight Into the DNA Double-Strand Break Repair During Meiosis in Barley (<i>Hordeum vulgare</i> L.). <i>Frontiers in Plant Science</i> , 2019, 10, 761.	3.6	17
50	An automated, cost-effective and scalable, flood-and-drain based root phenotyping system for cereals. <i>Plant Methods</i> , 2016, 12, 34.	4.3	16
51	Plastid differentiation during microgametogenesis determines green plant regeneration in barley microspore culture. <i>Plant Science</i> , 2020, 291, 110321.	3.6	15
52	The barley EST DNA Replication and Repair Database (bEST-DRRD) as a tool for the identification of the genes involved in DNA replication and repair. <i>BMC Plant Biology</i> , 2012, 12, 88.	3.6	14
53	TILLING in Barley. <i>Methods in Molecular Biology</i> , 2019, 1900, 73-94.	0.9	14
54	ATR, a DNA Damage Signaling Kinase, Is Involved in Aluminum Response in Barley. <i>Frontiers in Plant Science</i> , 2019, 10, 1299.	3.6	11

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55	Changes in plastid biogenesis leading to the formation of albino regenerants in barley microspore culture. <i>BMC Plant Biology</i> , 2021, 21, 22.	3.6	11
56	Forward Genetics Approach Reveals a Mutation in bHLH Transcription Factor-Encoding Gene as the Best Candidate for the Root Hairless Phenotype in Barley. <i>Frontiers in Plant Science</i> , 2018, 9, 1229.	3.6	10
57	High-throughput sequencing data revealed genotype-specific changes evoked by heat stress in crown tissue of barley <i>sdw1</i> near-isogenic lines. <i>BMC Genomics</i> , 2022, 23, 177.	2.8	9
58	Genetic diversity of the expansive grass <i>Brachypodium pinnatum</i> in a changing landscape: Effect of habitat age. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012, 207, 346-353.	1.2	8
59	Molecular mapping of genes involved in root hair formation in barley. <i>Euphytica</i> , 2007, 157, 95-111.	1.2	7
60	Cuticular waxes – A shield of barley mutant in <i>CBP20</i> (Cap-Binding Protein 20) gene when struggling with drought stress. <i>Plant Science</i> , 2020, 300, 110593.	3.6	7
61	Does DNA Methylation Pattern Mark Generative Development in Winter Rape?. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2006, 61, 387-396.	1.4	6
62	Identification of root morphology mutants in barley. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2011, 9, 357-360.	0.8	6
63	Towards the Identification of New Genes Involved in ABA-Dependent Abiotic Stresses Using Arabidopsis Suppressor Mutants of <i>abh1</i> Hypersensitivity to ABA during Seed Germination. <i>International Journal of Molecular Sciences</i> , 2013, 14, 13403-13432.	4.1	6
64	Fragmentation of Pooled PCR Products for Highly Multiplexed TILLING. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2657-2666.	1.8	6
65	Bioinformatics-Based Assessment of the Relevance of Candidate Genes for Mutation Discovery. , 2017, , 263-280.		5
66	Al-Tolerant Barley Mutant <i>hvatr.g</i> Shows the ATR-Regulated DNA Damage Response to Maleic Acid Hydrazide. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8500.	4.1	5
67	Albino Plant Formation in Androgenic Cultures: An Old Problem and New Facts. <i>Methods in Molecular Biology</i> , 2021, 2288, 3-23.	0.9	5
68	A study of the genetic variation of the aquatic fern <i>Marsilea quadrifolia</i> L. preserved in botanical collections in Poland and originated from natural populations in Europe. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2014, 209, 655-665.	1.2	4
69	EST-Based Approach for Dissecting Root Architecture in Barley Using Mutant Traits of Other Species. , 2011, , 11-72.		3
70	Methods for the Simple and Reliable Assessment of Barley Sensitivity to Abiotic Stresses During Early Development. <i>Methods in Molecular Biology</i> , 2019, 1900, 127-151.	0.9	3
71	Barley primary microRNA expression pattern is affected by soil water availability. <i>Acta Biochimica Polonica</i> , 2017, 63, 817-824.	0.5	3
72	Whole Exome Sequencing-Based Identification of a Novel Gene Involved in Root Hair Development in Barley (<i>Hordeum vulgare</i> L.). <i>International Journal of Molecular Sciences</i> , 2021, 22, 13411.	4.1	3