M. Margarida Oliveira

List of Publications by Year
in descending order

138 papers	7,596 citations	57758 44 h-index	58581 82 g-index
143 all docs	143 docs citations	143 times ranked	8561 citing authors

#	Article	IF	Citations
1	Mechanisms underlying plant resilience to water deficits: prospects for water-saving agriculture. Journal of Experimental Botany, 2004, 55, 2365-2384.	4.8	1,019
2	Regulation of Na+ and K+ homeostasis in plants: towards improved salt stress tolerance in crop plants. Genetics and Molecular Biology, 2017, 40, 326-345.	1.3	428
3	Transcription factors and regulation of photosynthetic and related metabolism under environmental stresses. Annals of Botany, 2009, 103, 609-623.	2.9	388
4	Enhanced iron and zinc accumulation in transgenic rice with the ferritin gene. Plant Science, 2003, 164, 371-378.	3.6	371
5	Transgenic Plants in Phytoremediation:Â Recent Advances and New Possibilities. Environmental Science & Technology, 2005, 39, 9377-9390.	10.0	364
6	Genetic stability of micropropagated almond plantlets, as assessed by RAPD and ISSR markers. Plant Cell Reports, 2004, 23, 492-496.	5.6	268
7	Recent Updates on Salinity Stress in Rice: From Physiological to Molecular Responses. Critical Reviews in Plant Sciences, 2011, 30, 329-377.	5.7	178
8	Drought stress response in Jatropha curcas: Growth and physiology. Environmental and Experimental Botany, 2013, 85, 76-84.	4.2	159
9	Genomic history and ecology of the geographic spread of rice. Nature Plants, 2020, 6, 492-502.	9.3	143
10	Microarray analyses reveal that plant mutagenesis may induce more transcriptomic changes than transgene insertion. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3640-3645.	7.1	141
11	New allelic variants found in key rice saltâ€tolerance genes: an association study. Plant Biotechnology Journal, 2013, 11, 87-100.	8.3	120
12	Seven zinc-finger transcription factors are novel regulators of the stress responsive gene OsDREB1B. Journal of Experimental Botany, 2012, 63, 3643-3656.	4.8	103
13	Five novel transcription factors as potential regulators of OsNHX1 gene expression in a salt tolerant rice genotype. Plant Molecular Biology, 2017, 93, 61-77.	3.9	102
14	The draft genome sequence of cork oak. Scientific Data, 2018, 5, 180069.	5.3	98
15	Rice calciumâ€dependent protein kinase OsCPK17 targets plasma membrane intrinsic protein and sucroseâ€phosphate synthase and is required for a proper cold stress response. Plant, Cell and Environment, 2017, 40, 1197-1213.	5.7	96
16	Coping with abiotic stress: Proteome changes for crop improvement. Journal of Proteomics, 2013, 93, 145-168.	2.4	93
17	Genetic relatedness of Portuguese almond cultivars assessed by RAPD and ISSR markers. Plant Cell Reports, 2003, 22, 71-78.	5.6	90
18	Salt Tolerant and Sensitive Rice Varieties Display Differential Methylome Flexibility under Salt Stress. PLoS ONE, 2015, 10, e0124060.	2.5	84

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19	Carbohydrates-based deep eutectic solvents: Thermophysical properties and rice straw dissolution. Journal of Molecular Liquids, 2017, 247, 441-447.	4.9	83
20	Transgenic almond (Prunus dulcis Mill.) plants obtained by Agrobacterium -mediated transformation of leaf explants. Plant Cell Reports, 1999, 18, 387-393.	5.6	82
21	Transcription Regulation of Abiotic Stress Responses in Rice: A Combined Action of Transcription Factors and Epigenetic Mechanisms. OMICS A Journal of Integrative Biology, 2011, 15, 839-857.	2.0	81
22	Comprehensive phenotypic analysis of rice (Oryza sativa) response to salinity stress. Physiologia Plantarum, 2015, 155, 43-54.	5.2	77
23	Essential oils from hairy root cultures and from fruits and roots of Pimpinella anisum. Phytochemistry, 1998, 48, 455-460.	2.9	74
24	Somatic Embryogenesis from 20 Open-Pollinated Families of Portuguese Plus Trees of Maritime Pine. Plant Cell, Tissue and Organ Culture, 2004, 76, 121-130.	2.3	74
25	OsRMC, a negative regulator of salt stress response in rice, is regulated by two AP2/ERF transcription factors. Plant Molecular Biology, 2013, 82, 439-455.	3.9	73
26	Targeted association analysis identified japonica rice varieties achieving Na+/K+ homeostasis without the allelic make-up of the salt tolerant indica variety Nona Bokra. Theoretical and Applied Genetics, 2011, 123, 881-895.	3.6	71
27	Genetic Diversity and Population Structure in a European Collection of Rice. Crop Science, 2012, 52, 1663-1675.	1.8	67
28	Analysis of genetic stability at SSR loci during somatic embryogenesis in maritime pine (Pinus pinaster). Plant Cell Reports, 2009, 28, 673-682.	5.6	66
29	Looking into flowering time in almond (Prunus dulcis (Mill) D. A. Webb): the candidate gene approach. Theoretical and Applied Genetics, 2005, 110, 959-968.	3.6	64
30	Sex determination in the dioecious Melandrium. The X/Y chromosome system allows complementary cloning strategies. Plant Science, 1991, 80, 93-106.	3.6	62
31	A Proteomic Study to Identify Soya Allergens â€“ The Human Response to Transgenic versus Non-Transgenic Soya Samples. International Archives of Allergy and Immunology, 2007, 144, 29-38.	2.1	61
32	Sex organ determination and differentiation in the dioecious plant Melandrium album (Silene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.2	60
33	Evaluation of control transcripts in real-time RT-PCR expression analysis during maritime pine embryogenesis. Planta, 2005, 222, 556-563.	3.2	58
34	Lack of detectable allergenicity of transgenic maize and soya samples. Journal of Allergy and Clinical Immunology, 2005, 116, 403-410.	2.9	57
35	Growth and essential oil composition of hairy root cultures of Levisticum officinale W.D.J. Koch (lovage). Plant Science, 2005, 168, 1089-1096.	3.6	56
36	Molecular cloning of the self-incompatibility genes S1 and S3 from almond (Prunus dulcis cv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.2	55

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37	A comprehensive assessment of the transcriptome of cork oak (Quercus suber) through EST sequencing. BMC Genomics, 2014, 15, 371.	2.8	53
38	Rice phytochrome-interacting factor protein OsPIF14 represses OsDREB1B gene expression through an extended N-box and interacts preferentially with the active form of phytochrome B. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 393-404.	1.9	51
39	Facts and fiction of genetically engineered food. Trends in Biotechnology, 2009, 27, 277-286.	9.3	50
40	Cold acclimation and floral development in almond bud break: insights into the regulatory pathways. Journal of Experimental Botany, 2012, 63, 4585-4596.	4.8	48
41	Screening for Abiotic Stress Tolerance in Rice: Salt, Cold, and Drought. Methods in Molecular Biology, 2016, 1398, 155-182.	0.9	48
42	Evolutionary analysis of S-RNase genes from Rosaceae species. Molecular Genetics and Genomics, 2002, 267, 71-78.	2.1	47
43	Shoot regeneration from adventitious buds induced on juvenile and adult almond (Prunus dulcis) Tj ETQq1 1 0.784314 rgBT /Overlock	2.1	46
44	Production of transgenic Hypericum perforatum plants via particle bombardment-mediated transformation of novel organogenic cell suspension cultures. Plant Science, 2007, 172, 1193-1203.	3.6	46
45	Synergistic Binding of bHLH Transcription Factors to the Promoter of the Maize NADP-ME Gene Used in C4 Photosynthesis Is Based on an Ancient Code Found in the Ancestral C3 State. Molecular Biology and Evolution, 2018, 35, 1690-1705.	8.9	45
46	Genetic Relatedness of Portuguese Rice Accessions from Diverse Origins as Assessed by Microsatellite Markers. Crop Science, 2007, 47, 879-884.	1.8	44
47	Expression analysis and genetic mapping of three SEPALLATA-like genes from peach (Prunus persica (L.)) Tj ETQq1 1 0.784314 rgBT /O	1.6	40
48	Abiotic Stress and Induced DNA Hypomethylation Cause Interphase Chromatin Structural Changes in Rice rDNA Loci. Cytogenetic and Genome Research, 2011, 132, 297-303.	1.1	40
49	Functional characterization of two almond C-repeat-binding factors involved in cold response. Tree Physiology, 2012, 32, 1113-1128.	3.1	39
50	Characterization of maize allergens â€" MON810 vs. its non-transgenic counterpart. Journal of Proteomics, 2012, 75, 2027-2037.	2.4	38
51	The rice cold-responsive calcium-dependent protein kinase OsCPK17 is regulated by alternative splicing and post-translational modifications. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 231-246.	4.1	38
52	Opportunities and Limitations of Crop Phenotyping in Southern European Countries. Frontiers in Plant Science, 2019, 10, 1125.	3.6	37
53	Zygotic and somatic embryo morphogenesis in Pinus pinaster: comparative histological and histochemical study. Tree Physiology, 2007, 27, 661-669.	3.1	36
54	Isolation and characterization of rice (Oryza sativa L.) E3-ubiquitin ligase OsHOS1 gene in the modulation of cold stress response. Plant Molecular Biology, 2013, 83, 351-363.	3.9	36

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55	Structural and molecular analysis of self-incompatibility in almond (Prunus dulcis). Sexual Plant Reproduction, 2002, 15, 13-20.	2.2	34
56	Title is missing!. Biotechnology Letters, 2002, 24, 1031-1036.	2.2	34
57	Integration of genomic tools to assist breeding in the japonica subspecies of rice. Molecular Breeding, 2008, 22, 159-168.	2.1	34
58	Morphological and genetic diversity of the family Azollaceae inferred from vegetative characters and RAPD markers. Plant Systematics and Evolution, 2011, 297, 213-226.	0.9	34
59	Essential oils from hairy root cultures and from plant roots of Achillea millefolium. Phytochemistry, 1999, 51, 637-642.	2.9	33
60	The RNase PD2 gene of almond (Prunus dulcis) represents an evolutionarily distinct class of S-like RNase genes. Molecular Genetics and Genomics, 2000, 263, 925-933.	2.4	31
61	Differential DNA Methylation Patterns Are Related to Phellogen Origin and Quality of Quercus suber Cork. PLoS ONE, 2017, 12, e0169018.	2.5	31
62	PpRT1: the first complete gypsy-like retrotransposon isolated in Pinus pinaster. Planta, 2007, 225, 551-562.	3.2	30
63	Plant natural variability may affect safety assessment data. Regulatory Toxicology and Pharmacology, 2010, 58, S8-S12.	2.7	29
64	Transcriptomics and physiological analyses reveal co-ordinated alteration of metabolic pathways inJatropha curcasdrought tolerance. Journal of Experimental Botany, 2016, 67, 845-860.	4.8	29
65	Different evolutionary histories of two cation/proton exchanger gene families in plants. BMC Plant Biology, 2013, 13, 97.	3.6	28
66	Sculpting the soil microbiota. Plant Journal, 2022, 109, 508-522.	5.7	28
67	Molecular and physiological identification of new S-alleles associated with self-(in)compatibility in local Spanish almond cultivars. Scientia Horticulturae, 2010, 123, 308-311.	3.6	27
68	Somatic hybridization by microfusion of defined protoplast pairs in Nicotiana: morphological, genetic, and molecular characterization. Theoretical and Applied Genetics, 1990, 80, 577-587.	3.6	26
69	The Expression of Self-compatibility in Almond May Not Only Be Due to the Presence of the Sf Allele. Journal of the American Society for Horticultural Science, 2009, 134, 221-227.	1.0	26
70	Cellular Location of Prune dwarf virus in Almond Sections by In Situ Reverse Transcription-Polymerase Chain Reaction. Phytopathology, 2003, 93, 278-285.	2.2	25
71	Plant regeneration from protoplasts of long-term callus cultures of Actinidia deliciosa var. deliciosa cv. Hayword (Kiwifruit). Plant Cell Reports, 1991, 9, 643-6.	5.6	24
72	Identification and characterization of a second isogene encoding Î³-terpinene synthase in Thymus caespititius. Journal of Plant Physiology, 2014, 171, 1017-1027.	3.5	24

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73	Uncovering Differentially Methylated Regions (DMRs) in a Salt-Tolerant Rice Variety under Stress: One Step towards New Regulatory Regions for Enhanced Salt Tolerance. Epigenomes, 2019, 3, 4.	1.8	24
74	Essential oil production in shoot cultures versus field-grown plants of Thymus caespititius. Plant Cell, Tissue and Organ Culture, 2013, 113, 341-351.	2.3	23
75	Direct gene transfer into Actinidia deliciosa protoplasts: analysis of transient expression of the CAT gene using TLC autoradiography and a GC-MS-based method. Plant Molecular Biology, 1991, 17, 235-242.	3.9	22
76	Identification and characterization of new Sâ€alleles associated with selfâ€incompatibility in almond. Plant Breeding, 2008, 127, 632-638.	1.9	22
77	The rice E3 ubiquitin ligase OsHOS1 modulates the expression of OsRMC, a gene involved in root mechano-sensing, through the interaction with two ERF transcription factors. Plant Physiology, 2015, 169, pp.01131.2015.	4.8	22
78	Longâ€term somatic memory of salinity unveiled from physiological, biochemical and epigenetic responses in two contrasting rice genotypes. Physiologia Plantarum, 2020, 170, 248-268.	5.2	22
79	Glandular trichomes of Humulus lupulus var. Brewer's Gold: Ontogeny and histochemical characterization of the secretion. Nordic Journal of Botany, 1988, 8, 349-359.	0.5	21
80	S-RNases in apple are expressed in the pistil along the pollen tube growth path. Sexual Plant Reproduction, 1999, 12, 94-98.	2.2	21
81	Evaluation of genetic diversity ofS-alleles in an almond germplasm collection. Journal of Horticultural Science and Biotechnology, 2008, 83, 603-608.	1.9	21
82	Recovery of cryopreserved embryogenic cultures of maritime pine--effect of cryoprotectant and suspension density. Cryo-Letters, 2004, 25, 363-74.	0.3	21
83	An improved selection strategy and the use of acetosyringone in shoot induction medium increase almond transformation efficiency by 100-fold. Plant Cell, Tissue and Organ Culture, 2006, 85, 205-209.	2.3	20
84	Concerted Flexibility of Chromatin Structure, Methylome, and Histone Modifications along with Plant Stress Responses. Biology, 2017, 6, 3.	2.8	20
85	Modulation of Abiotic Stress Responses in Rice by E3-Ubiquitin Ligases: A Promising Way to Develop Stress-Tolerant Crops. Frontiers in Plant Science, 2021, 12, 640193.	3.6	20
86	Kiwifruit leaf protoplasts competent for plant regeneration and direct DNA transfer. Plant Science, 1996, 121, 107-114.	3.6	19
87	Use of EcoTILLING to identify natural allelic variants of rice candidate genes involved in salinity tolerance. Plant Genetic Resources: Characterisation and Utilisation, 2011, 9, 300-304.	0.8	19
88	CMS system inNicotiana: flower development, patterns of mitochondrial DNA and mitochondrial gene expression. Sexual Plant Reproduction, 1992, 5, 13-26.	2.2	18
89	Stable Agrobacterium-mediated transformation of embryogenic tissues from Pinus pinaster Portuguese genotypes. Plant Growth Regulation, 2006, 50, 57-68.	3.4	18
90	Improved in vitro rooting of Prunus dulcis Mill. cultivars. Biologia Plantarum, 2008, 52, 437-444.	1.9	18

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91	Environmental stress is the major cause of transcriptomic and proteomic changes in GM and non-GM plants. Scientific Reports, 2017, 7, 10624.	3.3	18
92	Insights into the transcriptional and post-transcriptional regulation of the rice SUMOylation machinery and into the role of two rice SUMO proteases. BMC Plant Biology, 2018, 18, 349.	3.6	18
93	Flow cytometric and morphological analyses of Pinus pinaster somatic embryogenesis. Journal of Biotechnology, 2009, 143, 288-295.	3.8	17
94	Somatic embryogenesis in leaves and leaf-derived protoplasts of Actinidia deliciosa var. deliciosa cv. Hayward (kiwifruit). Plant Cell Reports, 1992, 11-11, 314-7.	5.6	16
95	Title is missing!. Biotechnology Letters, 1999, 21, 859-864.	2.2	16
96	Stable Agrobacterium-mediated transformation of embryogenic tissues from Pinus pinaster Portuguese genotypes. Plant Growth Regulation, 2006, 48, 215.	3.4	16
97	Novel clues on abiotic stress tolerance emerge from embryo proteome analyses of rice varieties with contrasting stress adaptation. Proteomics, 2011, 11, 2389-2405.	2.2	16
98	Selection of an Appropriate Protein Extraction Method to Study the Phosphoproteome of Maize Photosynthetic Tissue. PLoS ONE, 2016, 11, e0164387.	2.5	16
99	Potential of Waxy gene microsatellite and single-nucleotide polymorphisms to develop japonica varieties with desired amylose levels in rice (Oryza sativa L.). Journal of Cereal Science, 2007, 46, 178-186.	3.7	15
100	An integrated strategy to identify key genes in almond adventitious shoot regeneration. Journal of Experimental Botany, 2009, 60, 4159-4173.	4.8	15
101	Envelope-Like Retrotransposons in the Plant Kingdom: Evidence of Their Presence in Gymnosperms (Pinus pinaster). Journal of Molecular Evolution, 2008, 67, 517-525.	1.8	14
102	Genetic variation, mating patterns and gene flow in a Pinus pinaster Aiton clonal seed orchard. Annals of Forest Science, 2008, 65, 706-706.	2.0	14
103	PpRab1, a Rab GTPase from maritime pine is differentially expressed during embryogenesis. Molecular Genetics and Genomics, 2007, 278, 273-282.	2.1	13
104	Carbon/nitrogen metabolism and stress response networks â€“ calcium-dependent protein kinases as the missing link?. Journal of Experimental Botany, 2021, 72, 4190-4201.	4.8	13
105	Genomics of Almond. , 2009, , 187-219.		12
106	Inducible and constitutive expression of HvCBF4 in rice leads to differential gene expression and drought tolerance. Biologia Plantarum, 2011, 55, .	1.9	12
107	OsICE1 transcription factor improves photosynthetic performance and reduces grain losses in rice plants subjected to drought. Environmental and Experimental Botany, 2018, 150, 88-98.	4.2	12
108	NEP-TC a rRNA Methyltransferase Involved on Somatic Embryogenesis of Tamarillo (Solanum betaceum) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	12

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109	Micropropagation and Simultaneous Rooting of Actinidia deliciosa var. deliciosa `Hayward'. Hortscience: A Publication of the American Society for Hortcultural Science, 1992, 27, 443-445.	1.0	12
110	Maize IgE binding proteins: each plant a different profile?. Proteome Science, 2014, 12, 17.	1.7	11
111	Impact of novel SNPs identified in Cynara cardunculus genes on functionality of proteins regulating phenylpropanoid pathway and their association with biological activities. BMC Genomics, 2017, 18, 183.	2.8	11
112	Biosynthesis and bioactivity of Cynara cardunculus L. guaianolides and hydroxycinnamic acids: a genomic, biochemical and health-promoting perspective. Phytochemistry Reviews, 2019, 18, 495-526.	6.5	11
113	Zmb<scp>HLH</scp>80 and Zmb<scp>HLH</scp>90 transcription factors act antagonistically and contribute to regulate <scp>PEPC</scp>1 cellâ€specific gene expression in maize. Plant Journal, 2019, 99, 270-285.	5.7	11
114	Susceptibility of embryogenic and organogenic tissues of maritime pine (Pinus pinaster) to antibiotics used in Agrobacterium-mediated genetic transformation. Plant Cell, Tissue and Organ Culture, 2006, 87, 33-40.	2.3	10
115	Expression of prune dwarf Ilarvirus coat protein sequences in Nicotiana benthamiana plants interferes with PDV systemic proliferation. Plant Biotechnology Reports, 2008, 2, 75-85.	1.5	10
116	DNA-Based Tools to Certify Authenticity of Rice Varietiesâ€”An Overview. Foods, 2022, 11, 258.	4.3	10
117	In vitro culture may be the major contributing factor for transgenic versus nontransgenic proteomic plant differences. Proteomics, 2015, 15, 124-134.	2.2	9
118	Translational profile of developing phellem cells in Arabidopsis thaliana roots. Plant Journal, 2022, 110, 899-915.	5.7	9
119	The identification of almond GIGANTEA gene and its expression under cold stress, variable photoperiod, and seasonal dormancy. Biologia Plantarum, 2017, 61, 631-640.	1.9	8
120	ZmOrphan94 Transcription Factor Downregulates ZmPEPC1 Gene Expression in Maize Bundle Sheath Cells. Frontiers in Plant Science, 2021, 12, 559967.	3.6	8
121	PD1 , an S-like RNase gene from a self-incompatible cultivar of almond. Plant Cell Reports, 2000, 19, 1108-1114.	5.6	6
122	Haplotype analysis of the germacrene A synthase gene and association with cynaropicrin content and biological activities in Cynara cardunculus. Molecular Genetics and Genomics, 2018, 293, 417-433.	2.1	5
123	Goji berries superfood â€“ contributions for the characterisation of proteome and IgE-binding proteins. Food and Agricultural Immunology, 2019, 30, 262-280.	1.4	5
124	High-salinity activates photoprotective mechanisms in Quercus suber via accumulation of carbohydrates and involvement of non-enzymatic and enzymatic antioxidant pathways. New Forests, 2022, 53, 285-300.	1.7	5
125	A novel panel of yeast assays for the assessment of thiamin and its biosynthetic intermediates in plant tissues. New Phytologist, 2022, 234, 748-763.	7.3	5
126	In vitro seed germination, differentiation and production of minitubers from Ophrys lutea Cav., Ophrys fusca Link and Ophrys speculum Link. Scientia Horticulturae, 1990, 42, 329-337.	3.6	4

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127	Molecular characterization of the European rice collection in view of association mapping. Plant Genetic Resources: Characterisation and Utilisation, 2011, 9, 233-235.	0.8	4
128	Influence of culture media and fungal extracts on essential oils composition and on terpene synthase gene expression in Thymus caespititius. Plant Cell, Tissue and Organ Culture, 2014, 118, 457-469.	2.3	4
129	Genomics of Drought. , 2016, , 85-135.		4
130	Spatiotemporal development of suberized barriers in cork oak taproots. Tree Physiology, 2022, 42, 1269-1285.	3.1	4
131	Rice root curling, a response to mechanosensing, is modulated by the rice E3-ubiquitin ligase HIGH EXPRESSION OF OSMOTICALLY RESPONSIVE GENE1 (OsHOS1). Plant Signaling and Behavior, 2016, 11, e1208880.	2.4	3
132	Expression of almond Knotted1 homologue (PdKn1) anticipates adventitious shoot initiation. In Vitro Cellular and Developmental Biology - Plant, 2012, 48, 40-49.	2.1	2
133	Plasticity of Chromatin Organization in the Plant Interphase Nucleus. , 2015, , 57-79.		2
134	Screening for Abiotic Stress Response in Rice. Methods in Molecular Biology, 2022, 2494, 161-194.	0.9	1
135	Deciphering Histone Modifications in Rice by Chromatin Immunoprecipitation (ChIP): Applications to Study the Impact of Stress Imposition. , 2017, , .		0
136	Genetic Transformation of Kiwifruit (Actinidia species). , 2002, , .		0
137	Short communication. Cloning and sequencing of partial genomic DNA fragments corresponding to the S11 and S12 alleles of the Spanish almond cultivar â€˜Marconaâ€™. Spanish Journal of Agricultural Research, 2006, 4, 331.	0.6	0
138	Evaluating Root Mechanosensing Response in Rice. Methods in Molecular Biology, 2022, 2494, 25-35.	0.9	0