

# Jaakko Sakari Kangasjärvi

## List of Publications by Year in descending order

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120  
papers

19,424  
citations

16451

64  
h-index

20358

116  
g-index

137  
all docs

137  
docs citations

137  
times ranked

17029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis Iron Superoxide Dismutase FSD1 Protects Against Methyl Viologen-Induced Oxidative Stress in a Copper-Dependent Manner. <i>Frontiers in Plant Science</i> , 2022, 13, 823561.	3.6	8
2	ACONITASE 3 is part of the ANAC017 transcription factor-dependent mitochondrial dysfunction response. <i>Plant Physiology</i> , 2021, 186, 1859-1877.	4.8	15
3	Populus PtERF85 Balances Xylem Cell Expansion and Secondary Cell Wall Formation in Hybrid Aspen. <i>Cells</i> , 2021, 10, 1971.	4.1	11
4	PROTEIN PHOSPHATASE 2A- $\beta^3$ Controls <i>Botrytis cinerea</i> Resistance and Developmental Leaf Senescence. <i>Plant Physiology</i> , 2020, 182, 1161-1181.	4.8	25
5	Dissecting the interaction of photosynthetic electron transfer with mitochondrial signalling and hypoxic response in the Arabidopsis <i>rcd1</i> mutant. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190413.	4.0	15
6	Primary Metabolite Responses to Oxidative Stress in Early-Senescing and Paraquat Resistant Arabidopsis thaliana <i>rcd1</i> (Radical-Induced Cell Death1). <i>Frontiers in Plant Science</i> , 2020, 11, 194.	3.6	20
7	Systemic Signaling in the Regulation of Stomatal Conductance. <i>Plant Physiology</i> , 2020, 182, 1829-1832.	4.8	30
8	An <i>AP2/ERF</i> transcription factor <i>ERF139</i> coordinates xylem cell expansion and secondary cell wall deposition. <i>New Phytologist</i> , 2019, 224, 1585-1599.	7.3	49
9	Tissue-specific study across the stem reveals the chemistry and transcriptome dynamics of birch bark. <i>New Phytologist</i> , 2019, 222, 1816-1831.	7.3	56
10	Interaction of methyl viologen-induced chloroplast and mitochondrial signalling in Arabidopsis. <i>Free Radical Biology and Medicine</i> , 2019, 134, 555-566.	2.9	51
11	Mechanistic insights into the evolution of DUF26-containing proteins in land plants. <i>Communications Biology</i> , 2019, 2, 56.	4.4	75
12	Rapid Responses to Abiotic Stress: Priming the Landscape for the Signal Transduction Network. <i>Trends in Plant Science</i> , 2019, 24, 25-37.	8.8	264
13	Reactive Oxygen Species, Photosynthesis, and Environment in the Regulation of Stomata. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 1220-1237.	5.4	38
14	Arabidopsis RCD1 coordinates chloroplast and mitochondrial functions through interaction with ANAC transcription factors. <i>ELife</i> , 2019, 8, .	6.0	118
15	Reactive Oxygen Species in Plant Signaling. <i>Annual Review of Plant Biology</i> , 2018, 69, 209-236.	18.7	858
16	The role of reactive oxygen species in the integration of temperature and light signals. <i>Journal of Experimental Botany</i> , 2018, 69, 3347-3358.	4.8	24
17	Reactive oxygen species signaling and stomatal movement in plant responses to drought stress and pathogen attack. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 805-826.	8.5	397
18	Ethylene signaling induces gelatinous layers with typical features of tension wood in hybrid aspen. <i>New Phytologist</i> , 2018, 218, 999-1014.	7.3	52

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19	The Receptor-like Pseudokinase GHR1 Is Required for Stomatal Closure. <i>Plant Cell</i> , 2018, 30, 2813-2837.	6.6	95
20	<i>Arabidopsis</i> downy mildew effector HaRxL106 suppresses plant immunity by binding to RADICAL-INDUCED CELL DEATH1. <i>New Phytologist</i> , 2018, 220, 232-248.	7.3	51
21	Genome sequencing and population genomic analyses provide insights into the adaptive landscape of silver birch. <i>Nature Genetics</i> , 2017, 49, 904-912.	21.4	221
22	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N NMR chemical shift assignments of <i>A. thaliana</i> RCD1 RST. <i>Biomolecular NMR Assignments</i> , 2017, 11, 207-210.	0.8	8
23	The IDA-LIKE peptides IDL6 and IDL7 are negative modulators of stress responses in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2017, 68, 3557-3571.	4.8	34
24	Detecting early signs of heat and drought stress in <i>Phoenix dactylifera</i> (date palm). <i>PLoS ONE</i> , 2017, 12, e0177883.	2.5	42
25	ROS signalling in a destabilised world: A molecular understanding of climate change. <i>Journal of Plant Physiology</i> , 2016, 203, 69-83.	3.5	45
26	Lack of GLYCOLATE OXIDASE1, but Not GLYCOLATE OXIDASE2, Attenuates the Photorespiratory Phenotype of CATALASE2-Deficient <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 171, 1704-1719.	4.8	84
27	A Dominant Mutation in the HT1 Kinase Uncovers Roles of MAP Kinases and GHR1 in CO <sub>2</sub> -Induced Stomatal Closure. <i>Plant Cell</i> , 2016, 28, 2493-2509.	6.6	89
28	Axillary buds are dwarfed shoots that tightly regulate GA pathway and GA-inducible 1,3-β-glucanase genes during branching in hybrid aspen. <i>Journal of Experimental Botany</i> , 2016, 67, 5975-5991.	4.8	44
29	Reactive Oxygen Species in the Regulation of Stomatal Movements. <i>Plant Physiology</i> , 2016, 171, 1569-1580.	4.8	199
30	Spreading the news: subcellular and organellar reactive oxygen species production and signalling. <i>Journal of Experimental Botany</i> , 2016, 67, 3831-3844.	4.8	364
31	Natural Variation in <i>Arabidopsis</i> Cvi-0 Accession Reveals an Important Role of MPK12 in Guard Cell CO <sub>2</sub> Signaling. <i>PLoS Biology</i> , 2016, 14, e2000322.	5.6	69
32	Plant PARPs, PARGs and PARP-like Proteins. <i>Current Protein and Peptide Science</i> , 2016, 17, 713-723.	1.4	27
33	Large-Scale Phenomics Identifies Primary and Fine-Tuning Roles for CRKs in Responses Related to Oxidative Stress. <i>PLoS Genetics</i> , 2015, 11, e1005373.	3.5	167
34	Long and short photoperiod buds in hybrid aspen share structural development and expression patterns of marker genes. <i>Journal of Experimental Botany</i> , 2015, 66, 6745-6760.	4.8	20
35	GRIM REAPER peptide binds to receptor kinase PRK5 to trigger cell death in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2015, 34, 55-66.	7.8	83
36	Plant signalling in acute ozone exposure. <i>Plant, Cell and Environment</i> , 2015, 38, 240-252.	5.7	166

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37	Towards Understanding Extracellular ROS Sensory and Signaling Systems in Plants. <i>Advances in Botany</i> , 2014, 2014, 1-10.	3.4	20
38	Transcriptomics and Functional Genomics of ROS-Induced Cell Death Regulation by RADICAL-INDUCED CELL DEATH1. <i>PLoS Genetics</i> , 2014, 10, e1004112.	3.5	88
39	The <i>Arabidopsis thaliana</i> cysteine-rich receptor-like kinases CRK6 and CRK7 protect against apoplastic oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 457-462.	2.1	121
40	Specificity in ROS Signaling and Transcript Signatures. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1422-1441.	5.4	140
41	ROS signaling loops – production, perception, regulation. <i>Current Opinion in Plant Biology</i> , 2013, 16, 575-582.	7.1	303
42	Apoplastic and Chloroplastic Redox Signaling Networks in Plant Stress Responses. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 2220-2239.	5.4	94
43	Mutations in the <i>SLAC1</i> anion channel slow stomatal opening and severely reduce $K^{+}$ uptake channel activity via enhanced cytosolic $[Ca^{2+}]$ and increased $Ca^{2+}$ sensitivity of $K^{+}$ uptake channels. <i>New Phytologist</i> , 2013, 197, 88-98.	7.3	50
44	The Membrane-Bound NAC Transcription Factor ANAC013 Functions in Mitochondrial Retrograde Regulation of the Oxidative Stress Response in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3472-3490.	6.6	293
45	A genome-wide screen for ethylene-induced Ethylene Response Factors ( <i>ERFs</i> ) in hybrid aspen stem identifies <i>ERF</i> genes that modify stem growth and wood properties. <i>New Phytologist</i> , 2013, 200, 511-522.	7.3	90
46	Non-Cell-Autonomous Postmortem Lignification of Tracheary Elements in <i>Zinnia elegans</i> . <i>Plant Cell</i> , 2013, 25, 1314-1328.	6.6	158
47	ROS-talk – how the apoplast, the chloroplast, and the nucleus get the message through. <i>Frontiers in Plant Science</i> , 2012, 3, 292.	3.6	218
48	Reconstitution of abscisic acid activation of <i>SLAC1</i> anion channel by <i>CPK6</i> and <i>OST1</i> kinases and branched <i>ABI1</i> PP2C phosphatase action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10593-10598.	7.1	393
49	Low antioxidant concentrations impact on multiple signalling pathways in <i>Arabidopsis thaliana</i> partly through <i>NPR1</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 1849-1861.	4.8	33
50	<i>RCD1</i> – <i>DREB2A</i> interaction in leaf senescence and stress responses in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2012, 442, 573-581.	3.7	107
51	Pathway Reconstitution of Abscisic Acid Hormone Activation of <i>SLAC1</i> Anion Channels via Novel ABA Signaling Protein Kinase. <i>Biophysical Journal</i> , 2012, 102, 550a-551a.	0.5	0
52	Targeted retrieval of gene expression measurements using regulatory models. <i>Bioinformatics</i> , 2012, 28, 2349-2356.	4.1	18
53	The physiological, transcriptional and genetic responses of an ozone-sensitive and an ozone tolerant poplar and selected extremes of their F2 progeny. <i>Environmental Pollution</i> , 2011, 159, 45-54.	7.5	32
54	Ethylene signaling via Ethylene Response Factors (ERFs) modifies wood development in hybrid aspen. <i>BMC Proceedings</i> , 2011, 5, .	1.6	5

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55	Comparative study of transcriptional and physiological responses to salinity stress in two contrasting <i>Populus alba</i> L. genotypes. <i>Tree Physiology</i> , 2011, 31, 1335-1355.	3.1	44
56	Apoplastic Reactive Oxygen Species Transiently Decrease Auxin Signaling and Cause Stress-Induced Morphogenic Response in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 157, 1866-1883.	4.8	154
57	Chilling of Dormant Buds Hyperinduces <i>FLOWERING LOCUS T</i> and Recruits GA-Inducible 1,3- $\beta$ -Glucanases to Reopen Signal Conduits and Release Dormancy in <i>Populus</i> . <i>Plant Cell</i> , 2011, 23, 130-146.	6.6	402
58	The RST and PARP-like domain containing SRO protein family: analysis of protein structure, function and conservation in land plants. <i>BMC Genomics</i> , 2010, 11, 170.	2.8	101
59	Transcriptional regulation of the CRK/DUF26 group of Receptor-like protein kinases by ozone and plant hormones in <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , 2010, 10, 95.	3.6	261
60	Gene expression responses of paper birch ( <i>Betula papyrifera</i> ) to elevated CO <sub>2</sub> and O <sub>3</sub> during leaf maturation and senescence. <i>Environmental Pollution</i> , 2010, 158, 959-968.	7.5	39
61	Natural variation in ozone sensitivity among <i>Arabidopsis thaliana</i> accessions and its relation to stomatal conductance. <i>Plant, Cell and Environment</i> , 2010, 33, 914-925.	5.7	111
62	Differential gene expression in senescing leaves of two silver birch genotypes in response to elevated CO <sub>2</sub> and tropospheric ozone. <i>Plant, Cell and Environment</i> , 2010, 33, 1016-1028.	5.7	37
63	Ozone-triggered rapid stomatal response involves the production of reactive oxygen species, and is controlled by SLAC1 and OST1. <i>Plant Journal</i> , 2010, 62, 442-453.	5.7	262
64	Reactive oxygen species in abiotic stress signaling. <i>Physiologia Plantarum</i> , 2010, 138, 405-413.	5.2	440
65	Plant ROS and RNS: making plant science more radical than ever. <i>Physiologia Plantarum</i> , 2010, 138, 357-359.	5.2	8
66	Linking the Salt Transcriptome with Physiological Responses of a Salt-Resistant <i>Populus</i> Species as a Strategy to Identify Genes Important for Stress Acclimation. <i>Plant Physiology</i> , 2010, 154, 1697-1709.	4.8	120
67	The transcription factor interacting protein RCD1 contains a novel conserved domain. <i>Plant Signaling and Behavior</i> , 2010, 5, 78-80.	2.4	42
68	Photosynthetic characteristics in genetically modified sense-RbcS silver birch lines. <i>Journal of Plant Physiology</i> , 2010, 167, 820-828.	3.5	5
69	<i>Arabidopsis</i> GRI is involved in the regulation of cell death induced by extracellular ROS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5412-5417.	7.1	75
70	Ethylene is an endogenous stimulator of cell division in the cambial meristem of <i>Populus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5984-5989.	7.1	218
71	Scorched earth strategy. <i>Plant Signaling and Behavior</i> , 2009, 4, 631-633.	2.4	2
72	Nitric oxide modulates ozone-induced cell death, hormone biosynthesis and gene expression in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2009, 58, 1-12.	5.7	182

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73	Unequally redundant RCD1 and SRO1 mediate stress and developmental responses and interact with transcription factors. <i>Plant Journal</i> , 2009, 60, 268-279.	5.7	156
74	Stress Signaling III: Reactive Oxygen Species (ROS). , 2009, , 91-102.		10
75	Ozone and nitric oxide interaction in <i>Arabidopsis thaliana</i> , a role for ethylene?. <i>Plant Signaling and Behavior</i> , 2009, 4, 878-879.	2.4	28
76	Reactive Oxygen Species in Ozone Toxicity. <i>Signaling and Communication in Plants</i> , 2009, , 191-207.	0.7	5
77	Complex phenotypic profiles leading to ozone sensitivity in <i>Arabidopsis thaliana</i> mutants. <i>Plant, Cell and Environment</i> , 2008, 31, 1237-1249.	5.7	69
78	SLAC1 is required for plant guard cell S-type anion channel function in stomatal signalling. <i>Nature</i> , 2008, 452, 487-491.	27.8	733
79	<i>CENL1</i> Expression in the Rib Meristem Affects Stem Elongation and the Transition to Dormancy in <i>Populus</i> . <i>Plant Cell</i> , 2008, 20, 59-74.	6.6	107
80	Gradual Soil Water Depletion Results in Reversible Changes of Gene Expression, Protein Profiles, Ecophysiology, and Growth Performance in <i>Populus euphratica</i> , a Poplar Growing in Arid Regions. <i>Plant Physiology</i> , 2007, 143, 876-892.	4.8	338
81	A novel device detects a rapid ozone-induced transient stomatal closure in intact <i>Arabidopsis</i> and its absence in <i>abi2</i> mutant. <i>Physiologia Plantarum</i> , 2007, 129, 796-803.	5.2	98
82	Transitions in the functioning of the shoot apical meristem in birch ( <i>Betula pendula</i> ) involve ethylene. <i>Plant Journal</i> , 2006, 46, 628-640.	5.7	108
83	The Genome of Black Cottonwood, <i>Populus trichocarpa</i> (Torr. & Gray). <i>Science</i> , 2006, 313, 1596-1604.	12.6	3,945
84	Signalling and cell death in ozone-exposed plants. <i>Plant, Cell and Environment</i> , 2005, 28, 1021-1036.	5.7	418
85	Molecular characterization of PeNhaD1: the first member of the NhaD Na <sup>+</sup> /H <sup>+</sup> antiporter family of plant origin. <i>Plant Molecular Biology</i> , 2005, 58, 75-88.	3.9	77
86	Ozone-Induced Programmed Cell Death in the <i>Arabidopsis</i> radical-induced cell death1 Mutant. <i>Plant Physiology</i> , 2005, 137, 1092-1104.	4.8	178
87	Expression of senescence-associated genes in the leaves of silver birch ( <i>Betula pendula</i> ). <i>Tree Physiology</i> , 2005, 25, 1161-1172.	3.1	17
88	<i>Populus euphratica</i> Displays Apoplastic Sodium Accumulation, Osmotic Adjustment by Decreases in Calcium and Soluble Carbohydrates, and Develops Leaf Succulence under Salt Stress. <i>Plant Physiology</i> , 2005, 139, 1762-1772.	4.8	261
89	Gene expression and metabolite profiling of <i>Populus euphratica</i> growing in the Negev desert. <i>Genome Biology</i> , 2005, 6, R101.	9.6	208
90	<i>Arabidopsis</i> RADICAL-INDUCED CELL DEATH1 Belongs to the WWE Protein-Protein Interaction Domain Protein Family and Modulates Abscisic Acid, Ethylene, and Methyl Jasmonate Responses. <i>Plant Cell</i> , 2004, 16, 1925-1937.	6.6	217

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91	Short-Day Potentiation of Low Temperature-Induced Gene Expression of a C-Repeat-Binding Factor-Controlled Gene during Cold Acclimation in Silver Birch. <i>Plant Physiology</i> , 2004, 136, 4299-4307.	4.8	98
92	Mutual antagonism of ethylene and jasmonic acid regulates ozone-induced spreading cell death in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2004, 39, 59-69.	5.7	109
93	Stress hormone-independent activation and nuclear translocation of mitogen-activated protein kinases in <i>Arabidopsis thaliana</i> during ozone exposure. <i>Plant Journal</i> , 2004, 40, 512-522.	5.7	214
94	The jasmonate-insensitive mutant <i>jin1</i> shows increased resistance to biotrophic as well as necrotrophic pathogens. <i>Molecular Plant Pathology</i> , 2004, 5, 425-434.	4.2	95
95	Ethylene and Jasmonate as Regulators of Cell Death in Disease Resistance. <i>Ecological Studies</i> , 2004, , 75-109.	1.2	17
96	Changes in hydrogen peroxide homeostasis trigger an active cell death process in tobacco. <i>Plant Journal</i> , 2003, 33, 621-632.	5.7	272
97	Reactive oxygen species and hormonal control of cell death. <i>Trends in Plant Science</i> , 2003, 8, 335-342.	8.8	599
98	Differential Effects of Elevated Ozone on Two Hybrid Aspen Genotypes Predisposed to Chronic Ozone Fumigation. Role of Ethylene and Salicylic Acid. <i>Plant Physiology</i> , 2003, 132, 196-205.	4.8	58
99	Ethylene Insensitivity Modulates Ozone-Induced Cell Death in Birch. <i>Plant Physiology</i> , 2003, 132, 185-195.	4.8	96
100	Ethylene Synthesis Regulated by Biphasic Induction of 1-Aminocyclopropane-1-Carboxylic Acid Synthase and 1-Aminocyclopropane-1-Carboxylic Acid Oxidase Genes Is Required for Hydrogen Peroxide Accumulation and Cell Death in Ozone-Exposed Tomato. <i>Plant Physiology</i> , 2002, 130, 1918-1926.	4.8	199
101	Hydrogen Peroxide Activates Cell Death and Defense Gene Expression in Birch. <i>Plant Physiology</i> , 2002, 130, 549-560.	4.8	129
102	Activation of an oxidative burst is a general feature of sensitive plants exposed to the air pollutant ozone. <i>Plant, Cell and Environment</i> , 2002, 25, 717-726.	5.7	273
103	Preservation of transgenic silver birch ( <i>Betula pendula</i> Roth) lines by means of cryopreservation. <i>Molecular Breeding</i> , 2002, 10, 143-152.	2.1	22
104	Ozone-Induced Cell Death. <i>Tree Physiology</i> , 2001, , 81-92.	2.5	0
105	[47] Ozone effects on plant defense. <i>Methods in Enzymology</i> , 2000, 319, 520-535.	1.0	18
106	Ozone-Sensitive <i>Arabidopsis rcd1</i> Mutant Reveals Opposite Roles for Ethylene and Jasmonate Signaling Pathways in Regulating Superoxide-Dependent Cell Death. <i>Plant Cell</i> , 2000, 12, 1849-1862.	6.6	491
107	Genetic transformation of silver birch ( <i>Betula pendula</i> ) by particle bombardment. <i>Tree Physiology</i> , 2000, 20, 607-613.	3.1	30
108	Ozone-Sensitive <i>Arabidopsis rcd1</i> Mutant Reveals Opposite Roles for Ethylene and Jasmonate Signaling Pathways in Regulating Superoxide-Dependent Cell Death. <i>Plant Cell</i> , 2000, 12, 1849.	6.6	49

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109	Expression of photosynthesis- and senescence-related genes during leaf development and senescence in silver birch ( <i>Betula pendula</i> ) seedlings. <i>Physiologia Plantarum</i> , 1999, 106, 302-309.	5.2	27
110	Subcellular localization of ozone-induced hydrogen peroxide production in birch ( <i>Betula pendula</i> ) leaf cells. <i>Plant Journal</i> , 1999, 20, 349-356.	5.7	203
111	Induction of genes for the stress proteins PR10 and PAL in relation to growth, visible injuries and stomatal conductance in birch ( <i>Betula pendula</i> ) clones exposed to ozone and/or drought. <i>New Phytologist</i> , 1998, 138, 295-305.	7.3	71
112	Cloning and characterization of cDNA clones encoding phenylalanine ammonia-lyase in barley. <i>Plant Science</i> , 1997, 123, 143-150.	3.6	21
113	Isolation and characterization of cDNA for a plant mitochondrial phosphate translocator (Mpt1): ozone stress induces Mpt1 mRNA accumulation in birch ( <i>Betula pendula</i> Roth). <i>Plant Molecular Biology</i> , 1997, 35, 271-279.	3.9	55
114	Ozone induction of ethylene emission in tomato plants: regulation by differential accumulation of transcripts for the biosynthetic enzymes. <i>Plant Journal</i> , 1997, 12, 1151-1162.	5.7	133
115	Ozone Affects Birch ( <i>Betula pendula</i> Roth) Phenylpropanoid, Polyamine and Active Oxygen Detoxifying Pathways at Biochemical and Gene Expression Level. <i>Journal of Plant Physiology</i> , 1996, 148, 179-188.	3.5	59
116	Plant defence systems induced by ozone. <i>Plant, Cell and Environment</i> , 1994, 17, 783-794.	5.7	468
117	Plastid DNA in Developing Maize Endosperm. <i>Plant Physiology</i> , 1992, 100, 958-964.	4.8	24
118	Nucleotide sequence and transcription of maize plastid genome Bam HI fragment 14 containing ORF170. <i>Plant Molecular Biology</i> , 1991, 17, 513-515.	3.9	4
119	Pollinator behaviour in cultivated and wild Arctic Bramble ( <i>Rubus arcticus</i> L.). <i>Agricultural and Food Science</i> , 1989, 61, 33-38.	0.9	2
120	Reactive Oxygen in Abiotic Stress Perception - From Genes to Proteins. , 0, , .		4