

Zofia Szweykowska-Kulińska

List of Publications by Year in descending order

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98
papers

3,969
citations

117453

34
h-index

138251

58
g-index

107
all docs

107
docs citations

107
times ranked

4283
citing authors

#	ARTICLE	IF	CITATIONS
1	A cap-binding protein complex mediating U snRNA export. <i>Nature</i> , 1995, 376, 709-712.	13.7	320
2	Virus-Induced Gene Silencing-Based Functional Characterization of Genes Associated with Powdery Mildew Resistance in Barley. <i>Plant Physiology</i> , 2005, 138, 2155-2164.	2.3	245
3	Arabidopsis microRNA expression regulation in a wide range of abiotic stress responses. <i>Frontiers in Plant Science</i> , 2015, 6, 410.	1.7	192
4	Identification of human tRNA:m5C methyltransferase catalysing intron-dependent m5C formation in the first position of the anticodon of the $\text{pre-tRNA}_{\text{left(CAA)}}^{\text{Leu}}$. <i>Nucleic Acids Research</i> , 2006, 34, 6034-6043.	6.5	162
5	Transcriptionally and post-transcriptionally regulated microRNAs in heat stress response in barley. <i>Journal of Experimental Botany</i> , 2014, 65, 6123-6135.	2.4	153
6	Gene structures and processing of Arabidopsis thaliana HYL1-dependent pri-miRNAs. <i>Nucleic Acids Research</i> , 2009, 37, 3083-3093.	6.5	130
7	Role of microRNAs and other sRNAs of plants in their changing environments. <i>Journal of Plant Physiology</i> , 2012, 169, 1664-1672.	1.6	126
8	Introns of plant pri-miRNAs enhance miRNA biogenesis. <i>EMBO Reports</i> , 2013, 14, 622-628.	2.0	115
9	Down-regulation of <i>CBP80</i> gene expression as a strategy to engineer a drought-tolerant potato. <i>Plant Biotechnology Journal</i> , 2013, 11, 459-469.	4.1	114
10	Involvement of the nuclear cap-binding protein complex in alternative splicing in Arabidopsis thaliana. <i>Nucleic Acids Research</i> , 2010, 38, 265-278.	6.5	99
11	The SERRATE protein is involved in alternative splicing in Arabidopsis thaliana. <i>Nucleic Acids Research</i> , 2014, 42, 1224-1244.	6.5	94
12	The liverwort <i>Pellia endiviifolia</i> shares microtranscriptomic traits that are common to green algae and land plants. <i>New Phytologist</i> , 2015, 206, 352-367.	3.5	84
13	mRNA adenosine methylase (MTA) deposits m ⁶ A on pri-miRNAs to modulate miRNA biogenesis in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21785-21795.	3.3	83
14	Intron-dependent enzymatic formation of modified nucleosides in eukaryotic tRNAs: A review. <i>Biochimie</i> , 1997, 79, 293-302.	1.3	78
15	Salt Stress Reveals a New Role for ARGONAUTE1 in miRNA Biogenesis at the Transcriptional and Posttranscriptional Levels. <i>Plant Physiology</i> , 2016, 172, 297-312.	2.3	72
16	Posttranscriptional coordination of splicing and miRNA biogenesis in plants. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017, 8, e1403.	3.2	72
17	mirEX 2.0 - an integrated environment for expression profiling of plant microRNAs. <i>BMC Plant Biology</i> , 2015, 15, 144.	1.6	68
18	MicroRNAs Are Intensively Regulated during Induction of Somatic Embryogenesis in Arabidopsis. <i>Frontiers in Plant Science</i> , 2017, 8, 18.	1.7	62

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19	The human tRNA m ⁵ C methyltransferase Miso is multisite-specific. <i>RNA Biology</i> , 2012, 9, 1331-1338.	1.5	56
20	Determinants of Plant U12-Dependent Intron Splicing Efficiency. <i>Plant Cell</i> , 2004, 16, 1340-1352.	3.1	54
21	Selective recruitment of proteins to 5' cap complexes during the growth cycle in Arabidopsis. <i>Plant Journal</i> , 2009, 59, 400-412.	2.8	53
22	The Arabidopsis CBP20 targets the cap-binding complex to the nucleus, and is stabilized by CBP80. <i>Plant Journal</i> , 2009, 59, 814-825.	2.8	51
23	mirEX: a platform for comparative exploration of plant pri-miRNA expression data. <i>Nucleic Acids Research</i> , 2012, 40, D191-D197.	6.5	50
24	Cloning and characterization of two subunits of Arabidopsis thaliana nuclear cap-binding complex. <i>Gene</i> , 2002, 283, 171-183.	1.0	48
25	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.	1.7	48
26	Active 5' splice sites regulate the biogenesis efficiency of Arabidopsis microRNAs derived from intron-containing genes. <i>Nucleic Acids Research</i> , 2017, 45, gkw895.	6.5	47
27	R-loops at microRNA encoding loci promote co-transcriptional processing of pri-miRNAs in plants. <i>Nature Plants</i> , 2022, 8, 402-418.	4.7	47
28	Developmentally regulated expression and complex processing of barley pri-microRNAs. <i>BMC Genomics</i> , 2013, 14, 34.	1.2	43
29	miR393 Is Required for Production of Proper Auxin Signalling Outputs. <i>PLoS ONE</i> , 2014, 9, e95972.	1.1	43
30	STAT activation and differential complex formation dictate selectivity of interferon responses. <i>Acta Biochimica Polonica</i> , 2007, 54, 27-38.	0.3	43
31	High-throughput sequencing identification of novel and conserved miRNAs in the Brassica oleracea leaves. <i>BMC Genomics</i> , 2013, 14, 801.	1.2	42
32	Heat Stress Affects Pi-related Genes Expression and Inorganic Phosphate Deposition/Accumulation in Barley. <i>Frontiers in Plant Science</i> , 2016, 7, 926.	1.7	42
33	Genomewide identification of genes involved in the potato response to drought indicates functional evolutionary conservation with Arabidopsis plants. <i>Plant Biotechnology Journal</i> , 2018, 16, 603-614.	4.1	42
34	Divergent strategies displayed by potato (<i>Solanum tuberosum</i> L.) cultivars to cope with soil drought. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 13-30.	1.7	36
35	Successful extraction of DNA from 100-year-old herbarium specimens of the liverwort <i>Bazzania trilobata</i> . <i>Taxon</i> , 2005, 54, 335-336.	0.4	34
36	Organellar Inheritance in Liverworts: An Example of <i>Pellia borealis</i> . <i>Journal of Molecular Evolution</i> , 2003, 56, 11-17.	0.8	32

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37	Alternative splicing in plants. <i>Biochemical Society Transactions</i> , 2008, 36, 508-510.	1.6	32
38	The Role of the P1BS Element Containing Promoter-Driven Genes in Pi Transport and Homeostasis in Plants. <i>Frontiers in Plant Science</i> , 2012, 3, 58.	1.7	32
39	Arabidopsis 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.	2.0	32
40	FUS/TLS contributes to replication-dependent histone gene expression by interaction with U7 snRNPs and histone-specific transcription factors. <i>Nucleic Acids Research</i> , 2015, 43, gkv794.	6.5	32
41	SERRATE interacts with the nuclear exosome targeting (NEXT) complex to degrade primary miRNA precursors in Arabidopsis. <i>Nucleic Acids Research</i> , 2020, 48, 6839-6854.	6.5	32
42	N6-methyladenosine (m6A): Revisiting the Old with Focus on New, an Arabidopsis thaliana Centered Review. <i>Genes</i> , 2018, 9, 596.	1.0	30
43	The crosstalk between plant microRNA biogenesis factors and the spliceosome. <i>Plant Signaling and Behavior</i> , 2013, 8, e26955.	1.2	29
44	Novel candidate genes <i>AuxRP</i> and <i>Hsp90</i> influence the chip color of potato tubers. <i>Molecular Breeding</i> , 2015, 35, 224.	1.0	28
45	Regulation of Plant Microprocessor Function in Shaping microRNA Landscape. <i>Frontiers in Plant Science</i> , 2018, 9, 753.	1.7	28
46	Phylogeny of the European species of the genus <i>Pellia</i> (Hepaticae; Metzgeriales) based on the molecular data from nuclear tRNA Leu CAA intergenic sequences. <i>Gene</i> , 2001, 262, 309-315.	1.0	27
47	Regulation of plant gene expression by alternative splicing. <i>Biochemical Society Transactions</i> , 2010, 38, 667-671.	1.6	27
48	tRex: A Web Portal for Exploration of tRNA-Derived Fragments in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2018, 59, e1-e1.	1.5	27
49	Non-Canonical Processing of Arabidopsis pri-miR319a/b/c Generates Additional microRNAs to Target One RAP2.12 mRNA Isoform. <i>Frontiers in Plant Science</i> , 2012, 3, 46.	1.7	26
50	RNA interference and its role in the regulation of eucaryotic gene expression.. <i>Acta Biochimica Polonica</i> , 2003, 50, 217-229.	0.3	26
51	MicroRNA biogenesis: Epigenetic modifications as another layer of complexity to the microRNA expression regulation. <i>Acta Biochimica Polonica</i> , 2017, 63, 717-723.	0.3	25
52	The plastid-nucleus located DNA/RNA binding protein WHIRLY1 regulates microRNA-levels during stress in barley (<i>Hordeum vulgare</i> L.). <i>RNA Biology</i> , 2018, 15, 886-891.	1.5	25
53	Novel Nuclear Functions of Arabidopsis ARGONAUTE1: Beyond RNA Interference. <i>Plant Physiology</i> , 2019, 179, 1030-1039.	2.3	24
54	Plant nonsense suppressor tRNAs are expressed at very low levels in vitro due to inefficient splicing of the intron-containing pre-tRNAs. <i>Nucleic Acids Research</i> , 1991, 19, 707-712.	6.5	23

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55	Organellar inheritance in the allopolyploid moss <i>Rhizomnium pseudopunctatum</i> . <i>Taxon</i> , 2005, 54, 383-388.	0.4	21
56	Promoter-based identification of novel non-coding RNAs reveals the presence of dicistronic snoRNA-miRNA genes in <i>Arabidopsis thaliana</i> . <i>BMC Genomics</i> , 2015, 16, 1009.	1.2	20
57	The brome mosaic virus-based recombination vector triggers a limited gene silencing response depending on the orientation of the inserted sequence. <i>Archives of Virology</i> , 2010, 155, 169-179.	0.9	18
58	MicroRNA-mediated regulation of flower development in grasses. <i>Acta Biochimica Polonica</i> , 2017, 63, 687-692.	0.3	18
59	RAPD technique for taxonomic studies of <i>Pellia epiphylla</i> -complex (Hepaticae, Metzgeriales). <i>Genetica</i> , 1998, 104, 179-187.	0.5	16
60	Biogenesis, conservation, and function of miRNA in liverworts. <i>Journal of Experimental Botany</i> , 2022, 73, 4528-4545.	2.4	16
61	Identification of transcription factors that bind to the 5' UTR of the barley <i>PHO2</i> gene. <i>Plant Molecular Biology</i> , 2020, 102, 73-88.	2.0	15
62	Post-transcriptional Regulation of MicroRNA Accumulation and Function: New Insights from Plants. <i>Molecular Plant</i> , 2018, 11, 1006-1007.	3.9	14
63	Pi-starvation induced transcriptional changes in barley revealed by a comprehensive RNA-Seq and degradome analyses. <i>BMC Genomics</i> , 2021, 22, 165.	1.2	14
64	Nucleotide sequences of two nuclear tRNA ^{Tyr} genes from <i>Triticum aestivum</i> . <i>Nucleic Acids Research</i> , 1990, 18, 1894-1894.	6.5	13
65	Novel genes specifically expressed during the development of the male thalli and antheridia in the dioecious liverwort <i>Pellia endiviifolia</i> . <i>Gene</i> , 2011, 485, 53-62.	1.0	13
66	A stable tRNA-like molecule is generated from the long noncoding RNA <i>GUT15</i> in <i>Arabidopsis</i> . <i>RNA Biology</i> , 2018, 15, 1-13.	1.5	12
67	<i>Arabidopsis thaliana</i> microRNA162 level is posttranscriptionally regulated via splicing and polyadenylation site selection.. <i>Acta Biochimica Polonica</i> , 2017, 63, 811-816.	0.3	12
68	Mutations of <i>Arabidopsis thaliana</i> pre-tRNA ^{Tyr} affecting pseudouridylation of U35. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995, 1264, 87-92.	2.4	11
69	miRNA Detection by Stem-Loop RT-qPCR in Studying microRNA Biogenesis and microRNA Responsiveness to Abiotic Stresses. <i>Methods in Molecular Biology</i> , 2019, 1932, 131-150.	0.4	11
70	Construction of Artificial miRNAs to Prevent Drought Stress in <i>Solanum tuberosum</i> . <i>Methods in Molecular Biology</i> , 2016, 1398, 271-290.	0.4	11
71	The nuclear cap-binding protein complex is not essential for nonsense-mediated mRNA decay (NMD) in plants.. <i>Acta Biochimica Polonica</i> , 2008, 55, 825-828.	0.3	11
72	Developmental changes in barley microRNA expression profiles coupled with miRNA targets analysis.. <i>Acta Biochimica Polonica</i> , 2017, 63, 799-809.	0.3	11

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73	Micromanagement of Developmental and Stress-Induced Senescence: The Emerging Role of MicroRNAs. <i>Genes</i> , 2019, 10, 210.	1.0	9
74	Barley microRNAs as metabolic sensors for soil nitrogen availability. <i>Plant Science</i> , 2020, 299, 110608.	1.7	9
75	New DNA markers for discrimination between closely-related species and for the reconstruction of historical events; an example using liverworts. <i>Cellular and Molecular Biology Letters</i> , 2002, 7, 403-16.	2.7	9
76	Intergenic sequences of clustered tRNA genes: new type of genetic marker for phylogenetic studies, with application to the taxonomy of liverworts. , 1998, 38, 1257-1261.		8
77	A nuclear tRNA UGASer gene from the wheat <i>Triticum vulgare</i> var. <i>Aria</i> . <i>Gene</i> , 1989, 77, 163-167.	1.0	7
78	A Role of U12 Intron in Proper Pre-mRNA Splicing of Plant Cap Binding Protein 20 Genes. <i>Frontiers in Plant Science</i> , 2018, 9, 475.	1.7	7
79	The nuclear cap-binding protein complex is not essential for nonsense-mediated mRNA decay (NMD) in plants. <i>Acta Biochimica Polonica</i> , 2008, 55, 825-8.	0.3	7
80	Nucleotide sequence of a nuclear tRNA ^{Tyr} gene from <i>Triticum aestivum</i> . <i>Plant Molecular Biology</i> , 1992, 18, 1207-1208.	2.0	5
81	Female-specific gene expression in dioecious liverwort <i>Pellia endiviifolia</i> is developmentally regulated and connected to archegonia production. <i>BMC Plant Biology</i> , 2014, 14, 168.	1.6	5
82	A Functional Network of Novel Barley MicroRNAs and Their Targets in Response to Drought. <i>Genes</i> , 2020, 11, 488.	1.0	5
83	<i>Arabidopsis</i> Spliceosome Factor SmD3 Modulates Immunity to <i>Pseudomonas syringae</i> Infection. <i>Frontiers in Plant Science</i> , 2021, 12, 765003.	1.7	5
84	RNAi and viral vectors as useful tools in the functional genomics of plants. Construction of BMV-based vectors for RNA delivery into plant cells. <i>Cellular and Molecular Biology Letters</i> , 2002, 7, 511-22.	2.7	5
85	Pseudouridylation of U35 in the anticodon of <i>Arabidopsis thaliana</i> pre-tRNA ^{Tyr} depends on length rather than structure of an intron. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002, 1574, 137-144.	2.4	4
86	Abscisic acid does not influence the subcellular distribution of the HYL1 protein from <i>Arabidopsis thaliana</i> . <i>Acta Biochimica Polonica</i> , 2008, 55, 517-524.	0.3	4
87	Quantitative Analysis of Plant Primary Transcripts. <i>Methods in Molecular Biology</i> , 2021, 2170, 53-77.	0.4	4
88	A comparison of group II introns of plastid tRNA ^{Lys} UUU genes encoding maturase protein. <i>Cellular and Molecular Biology Letters</i> , 2004, 9, 239-51.	2.7	4
89	The Non-Coding RNA Journal Club: Highlights on Recent Papers. <i>Non-coding RNA</i> , 2015, 1, 87-93.	1.3	3
90	The identification of differentially expressed genes in male and female gametophytes of simple thalloid liverwort <i>Pellia endiviifolia</i> sp. B using an RNA-seq approach. <i>Planta</i> , 2020, 252, 21.	1.6	3

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91	Barley primary microRNA expression pattern is affected by soil water availability. <i>Acta Biochimica Polonica</i> , 2017, 63, 817-824.	0.3	3
92	Regulation of Plant microRNA Biogenesis. <i>Concepts and Strategies in Plant Sciences</i> , 2020, , 3-24.	0.6	3
93	MicroRNA biogenesis and activity in plant cell dedifferentiation stimulated by cell wall removal. <i>BMC Plant Biology</i> , 2022, 22, 9.	1.6	3
94	The Old and New RNA World. <i>Acta Societatis Botanicorum Poloniae</i> , 2014, 83, 441-448.	0.8	2
95	A comparative proteomic analysis of the PVY-induced hypersensitive response in leaves of potato (<i>Solanum tuberosum</i> L.) plants that differ in Ny-1 gene dosage. <i>European Journal of Plant Pathology</i> , 2019, 153, 385-396.	0.8	2
96	Specific guanylation of <i>Lupinus luteus</i> 5S rRNA at its 3' end in HeLa cell extract. <i>IUBMB Life</i> , 1996, 39, 1221-1227.	1.5	1
97	Abscisic acid does not influence the subcellular distribution of the HYL1 protein from <i>Arabidopsis thaliana</i> . <i>Acta Biochimica Polonica</i> , 2008, 55, 517-24.	0.3	1
98	The Non-Coding RNA Journal Club: Highlights on Recent Papers. <i>Non-coding RNA</i> , 2015, 1, 167-169.	1.3	0