

# Thomas Bärner

## List of Publications by Year in descending order

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110  
papers

9,762  
citations

28242

55  
h-index

37183

96  
g-index

117  
all docs

117  
docs citations

117  
times ranked

6193  
citing authors

#	ARTICLE	IF	CITATIONS
1	ATP-Dependent Clp Protease Subunit C1, HvClpC1, Is a Strong Candidate Gene for Barley Variegation Mutant luteostrians as Revealed by Genetic Mapping and Genomic Re-sequencing. <i>Frontiers in Plant Science</i> , 2021, 12, 664085.	1.7	2
2	The Arabidopsis AAC Proteins CIL and CIA2 Are Sub-functionalized Paralogs Involved in Chloroplast Development. <i>Frontiers in Plant Science</i> , 2021, 12, 681375.	1.7	6
3	Mutation of the ALBOSTRIANS Ohnologous Gene HvCMF3 Impairs Chloroplast Development and Thylakoid Architecture in Barley. <i>Frontiers in Plant Science</i> , 2021, 12, 732608.	1.7	7
4	Chloroplast nucleoids are highly dynamic in ploidy, number, and structure during angiosperm leaf development. <i>Plant Journal</i> , 2020, 102, 730-746.	2.8	43
5	Leaf Variegation and Impaired Chloroplast Development Caused by a Truncated CCT Domain Gene in <i>Albostrians</i> Barley. <i>Plant Cell</i> , 2019, 31, 1430-1445.	3.1	52
6	The discovery of plastid-to-nucleus retrograde signaling—a personal perspective. <i>Protoplasma</i> , 2017, 254, 1845-1855.	1.0	37
7	In vitro promoter recognition by the catalytic subunit of plant phage-type RNA polymerases. <i>Plant Molecular Biology</i> , 2016, 92, 357-369.	2.0	2
8	Abscisic acid affects transcription of chloroplast genes via protein phosphatase 2C-dependent activation of nuclear genes: repression by guanosine 3',5'-bisdiphosphate and activation by sigma factor $\sigma_{5}$ . <i>Plant Journal</i> , 2015, 82, 1030-1041.	3.5	79
9	Chloroplast RNA polymerases: Role in chloroplast biogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 761-769.	0.5	191
10	Identification of Early Nuclear Target Genes of Plastidial Redox Signals that Trigger the Long-Term Response of Arabidopsis to Light Quality Shifts. <i>Molecular Plant</i> , 2015, 8, 1237-1252.	3.9	38
11	Chloroplast DNA in Mature and Senescing Leaves: A Reappraisal. <i>Plant Cell</i> , 2014, 26, 847-854.	3.1	65
12	A third mitochondrial RNA polymerase in the moss <i>Physcomitrella patens</i> . <i>Current Genetics</i> , 2014, 60, 25-34.	0.8	4
13	Transcriptomic response to prolonged ethanol production in the cyanobacterium <i>Synechocystis</i> sp. PCC6803. <i>Biotechnology for Biofuels</i> , 2014, 7, 21.	6.2	54
14	Inhibition of the electron transport strongly affects transcription and transcript levels in Arabidopsis mitochondria. <i>Mitochondrion</i> , 2014, 19, 222-230.	1.6	11
15	Chloroplast Gene Expression—RNA Synthesis and Processing. , 2014, , 3-47.		10
16	Mitochondrial atp9 genes from petaloid male-sterile and male-fertile carrots differ in their status of heteroplasmy, recombination involvement, post-transcriptional processing as well as accumulation of RNA and protein product. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1689-1701.	1.8	23
17	Mutation of the pentatricopeptide repeat-SMR protein SVR7 impairs accumulation and translation of chloroplast ATP synthase subunits in Arabidopsis thaliana. <i>Journal of Plant Research</i> , 2013, 126, 403-414.	1.2	55
18	Biparental inheritance of organelles in <i>Pelargonium</i> : evidence for intergenomic recombination of mitochondrial DNA. <i>Planta</i> , 2013, 237, 509-515.	1.6	22

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19	Development-Dependent Changes in the Amount and Structural Organization of Plastid DNA. <i>Advances in Photosynthesis and Respiration</i> , 2013, , 215-237.	1.0	15
20	Abscisic acid represses the transcription of chloroplast genes*. <i>Journal of Experimental Botany</i> , 2013, 64, 4491-4502.	2.4	49
21	Protein-mediated protection as the predominant mechanism for defining processed mRNA termini in land plant chloroplasts. <i>Nucleic Acids Research</i> , 2012, 40, 3092-3105.	6.5	116
22	The Primary Transcriptome of Barley Chloroplasts: Numerous Noncoding RNAs and the Dominating Role of the Plastid-Encoded RNA Polymerase $\text{\AA}$ . <i>Plant Cell</i> , 2012, 24, 123-136.	3.1	186
23	Transcription and Transcription Regulation in Chloroplasts and Mitochondria of Higher Plants. , 2012, , 297-325.		9
24	The Cyanobacterial Hepatotoxin Microcystin Binds to Proteins and Increases the Fitness of <i>Microcystis</i> under Oxidative Stress Conditions. <i>PLoS ONE</i> , 2011, 6, e17615.	1.1	367
25	The transcription machineries of plant mitochondria and chloroplasts: Composition, function, and regulation. <i>Journal of Plant Physiology</i> , 2011, 168, 1345-1360.	1.6	192
26	Methyl jasmonate, gibberellic acid, and auxin affect transcription and transcript accumulation of chloroplast genes in barley. <i>Journal of Plant Physiology</i> , 2011, 168, 1335-1344.	1.6	36
27	Regulation of plant primary metabolism. <i>Journal of Plant Physiology</i> , 2011, 168, 1309-1310.	1.6	1
28	Reverse protection assay: a tool to analyze transcriptional rates from individual promoters. <i>Plant Methods</i> , 2011, 7, 47.	1.9	6
29	Transcription in Plant Mitochondria. , 2011, , 85-105.		8
30	Measurement of Transcription Rates in Arabidopsis Chloroplasts. <i>Methods in Molecular Biology</i> , 2011, 774, 171-182.	0.4	8
31	Evolution of plant phage-type RNA polymerases: the genome of the basal angiosperm <i>Nuphar advena</i> encodes two mitochondrial and one plastid phage-type RNA polymerases. <i>BMC Evolutionary Biology</i> , 2010, 10, 379.	3.2	19
32	A mitochondrial rRNA dimethyladenosine methyltransferase in Arabidopsis. <i>Plant Journal</i> , 2010, 61, 558-569.	2.8	31
33	Fewer genes than organelles: extremely low and variable gene copy numbers in mitochondria of somatic plant cells. <i>Plant Journal</i> , 2010, 64, 948-959.	2.8	160
34	An organellar maturase associates with multiple group II introns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3245-3250.	3.3	161
35	Phage-Type RNA Polymerase RPOTmp Performs Gene-Specific Transcription in Mitochondria of <i>Arabidopsis thaliana</i> $\text{\AA}$ . <i>Plant Cell</i> , 2009, 21, 2762-2779.	3.1	134
36	Biparental inheritance of plastidial and mitochondrial DNA and hybrid variegation in <i>Pelargonium</i> . <i>Molecular Genetics and Genomics</i> , 2009, 282, 587-593.	1.0	41

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37	Evolution of Phage-Type RNA Polymerases in Higher Plants: Characterization of the Single Phage-Type RNA Polymerase Gene from <i>Selaginella moellendorffii</i> . <i>Journal of Molecular Evolution</i> , 2009, 68, 528-538.	0.8	15
38	The barley plastome mutant CL2 affects expression of nuclear and chloroplast housekeeping genes in a cell-age dependent manner. <i>Molecular Genetics and Genomics</i> , 2008, 279, 403-414.	1.0	14
39	Complex chloroplast RNA metabolism: just debugging the genetic programme?. <i>BMC Biology</i> , 2008, 6, 36.	1.7	87
40	An Extracellular Glycoprotein Is Implicated in Cell-Cell Contacts in the Toxic Cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Journal of Bacteriology</i> , 2008, 190, 2871-2879.	1.0	61
41	Cytokinin Stimulates Chloroplast Transcription in Detached Barley Leaves. <i>Plant Physiology</i> , 2008, 148, 1082-1093.	2.3	99
42	<i>Arabidopsis</i> Phage-Type RNA Polymerases: Accurate in Vitro Transcription of Organellar Genes. <i>Plant Cell</i> , 2007, 19, 959-971.	3.1	66
43	Impaired function of the phage-type RNA polymerase RpoTp in transcription of chloroplast genes is compensated by a second phage-type RNA polymerase. <i>Nucleic Acids Research</i> , 2007, 36, 785-792.	6.5	63
44	Transcription and transcriptional regulation in plastids. <i>Topics in Current Genetics</i> , 2007, , 121-174.	0.7	75
45	Faithful transcription initiation from a mitochondrial promoter in transgenic plastids. <i>Nucleic Acids Research</i> , 2007, 35, 7256-7266.	6.5	20
46	Biosynthesis and Structure of Aeruginoside 126A and 126B, Cyanobacterial Peptide Glycosides Bearing a 2-Carboxy-6-Hydroxyoctahydroindole Moiety. <i>Chemistry and Biology</i> , 2007, 14, 565-576.	6.2	101
47	Towards clarification of the biological role of microcystins, a family of cyanobacterial toxins. <i>Environmental Microbiology</i> , 2007, 9, 965-970.	1.8	187
48	From seedling to mature plant: <i>Arabidopsis</i> plastidial genome copy number, RNA accumulation and transcription are differentially regulated during leaf development. <i>Plant Journal</i> , 2007, 50, 710-722.	2.8	164
49	High diversity of plastidial promoters in <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 2007, 277, 725-734.	1.0	75
50	Development- and tissue-specific expression of the RpoT gene family of <i>Arabidopsis</i> encoding mitochondrial and plastid RNA polymerases. <i>Planta</i> , 2006, 223, 998-1009.	1.6	33
51	Transposons Inactivate Biosynthesis of the Nonribosomal Peptide Microcystin in Naturally Occurring <i>Planktothrix</i> spp. <i>Applied and Environmental Microbiology</i> , 2006, 72, 117-123.	1.4	75
52	Relaxed Transcription in <i>Arabidopsis</i> Mitochondria Is Counterbalanced by RNA Stability Control Mediated by Polyadenylation and Polynucleotide Phosphorylase. <i>Molecular and Cellular Biology</i> , 2006, 26, 2869-2876.	1.1	104
53	Ingestion of microcystins by <i>Daphnia</i> : Intestinal uptake and toxic effects. <i>Limnology and Oceanography</i> , 2005, 50, 440-448.	1.6	114
54	Phototaxis in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803: Role of Different Photoreceptors. <i>Photochemistry and Photobiology</i> , 2005, 81, 1481.	1.3	69

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55	Genetic contributions to the risk assessment of microcystin in the environment. <i>Toxicology and Applied Pharmacology</i> , 2005, 203, 192-200.	1.3	86
56	Multiple promoters are a common feature of mitochondrial genes in <i>Arabidopsis</i> . <i>Nucleic Acids Research</i> , 2005, 33, 337-346.	6.5	127
57	Mitochondrial effects on flower and pollen development. <i>Mitochondrion</i> , 2005, 5, 389-402.	1.6	111
58	Red and far-red light alter the transcript profile in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803: Impact of cyanobacterial phytochromes. <i>FEBS Letters</i> , 2005, 579, 1613-1618.	1.3	36
59	Molecular Biology of Cyanobacterial Toxins. , 2005, , 25-40.		21
60	Inactivation of an ABC Transporter Gene, <i>mcvH</i> , Results in Loss of Microcystin Production in the Cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6370-6378.	1.4	150
61	Overexpression of phage-type RNA polymerase <i>RpoTp</i> in tobacco demonstrates its role in chloroplast transcription by recognizing a distinct promoter type. <i>Nucleic Acids Research</i> , 2004, 32, 1159-1165.	6.5	54
62	Abundance of active and inactive microcystin genotypes in populations of the toxic cyanobacterium <i>Planktothrix</i> spp.. <i>Environmental Microbiology</i> , 2004, 6, 831-841.	1.8	171
63	Phylogenetic evidence for the early evolution of microcystin synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 568-573.	3.3	432
64	Chloroplast development affects expression of phage-type RNA polymerases in barley leaves. <i>Plant Journal</i> , 2004, 38, 460-472.	2.8	92
65	The White Barley Mutant <i>Albostrians</i> Shows Enhanced Resistance to the Biotroph <i>Blumeria graminis</i> f. sp. <i>hordei</i> . <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 374-382.	1.4	17
66	Involvement of Cyanobacterial Phytochromes in Growth Under Different Light Qualities and Quantities. <i>Photochemistry and Photobiology</i> , 2004, 79, 551-555.	1.3	0
67	Involvement of Cyanobacterial Phytochromes in Growth Under Different Light Qualities and Quantities. <i>Photochemistry and Photobiology</i> , 2004, 79, 551.	1.3	32
68	PCR-based identification of microcystin-producing genotypes of different cyanobacterial genera. <i>Archives of Microbiology</i> , 2003, 180, 402-410.	1.0	226
69	Flower development in carrot CMS plants: mitochondria affect the expression of MADS box genes homologous to <i>GLOBOSA</i> and <i>DEFICIENS</i> . <i>Plant Journal</i> , 2003, 34, 27-37.	2.8	103
70	Metabolic control of the tetrapyrrole biosynthetic pathway for porphyrin distribution in the barley mutant <i>albostrians</i> . <i>Plant Journal</i> , 2003, 35, 512-522.	2.8	56
71	Microcystin Biosynthesis in <i>Planktothrix</i> : Genes, Evolution, and Manipulation. <i>Journal of Bacteriology</i> , 2003, 185, 564-572.	1.0	317
72	The <i>mcvF</i> gene of the microcystin biosynthetic gene cluster from <i>Microcystis aeruginosa</i> encodes an aspartate racemase. <i>Biochemical Journal</i> , 2003, 373, 909-916.	1.7	54

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73	Chloroplasts affect the leaf response to cytokinin. <i>Journal of Plant Physiology</i> , 2002, 159, 1309-1316.	1.6	26
74	Two RpoT genes of <i>Physcomitrella patens</i> encode phage-type RNA polymerases with dual targeting to mitochondria and plastids. <i>Gene</i> , 2002, 290, 95-105.	1.0	91
75	Detection of hepatotoxic <i>Microcystis</i> strains by PCR with intact cells from both culture and environmental samples. <i>Archives of Microbiology</i> , 2002, 178, 421-427.	1.0	60
76	The cyanobacterial phytochrome Cph2 inhibits phototaxis towards blue light. <i>Molecular Microbiology</i> , 2002, 44, 981-988.	1.2	110
77	Six active phage-type RNA polymerase genes in <i>Nicotiana tabacum</i> . <i>Plant Journal</i> , 2002, 30, 625-637.	2.8	94
78	Characterization of the Cph1 holo-phytochrome from <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Journal</i> , 2001, 268, 2055-2063.	0.2	74
79	Altered expression of two light-dependent genes in a microcystin-lacking mutant of <i>Microcystis aeruginosa</i> PCC 7806. <i>Microbiology (United Kingdom)</i> , 2001, 147, 3113-3119.	0.7	103
80	Structural organization of microcystin biosynthesis in <i>Microcystis aeruginosa</i> PCC7806: an integrated peptide-polyketide synthetase system. <i>Chemistry and Biology</i> , 2000, 7, 753-764.	6.2	852
81	Phage T4-like intermediates of DNA replication and recombination in the mitochondria of the higher plant <i>Chenopodium album</i> (L.). <i>Current Genetics</i> , 2000, 37, 304-314.	0.8	106
82	One RNA polymerase serving two genomes. <i>EMBO Reports</i> , 2000, 1, 435-440.	2.0	205
83	Green fluorescent protein as a marker to investigate targeting of organellar RNA polymerases of higher plants <i>in vivo</i> . <i>Plant Journal</i> , 1999, 17, 557-561.	2.8	63
84	Inter-organellar crosstalk in higher plants: impaired chloroplast development affects mitochondrial gene and transcript levels. <i>Plant Journal</i> , 1999, 19, 635-643.	2.8	96
85	Cloning and characterization of three cDNAs encoding chloroplast RNA-binding proteins from barley ( <i>Hordeum vulgare</i> L.): differential regulation of expression by light and plastid development. <i>Current Genetics</i> , 1999, 36, 173-181.	0.8	27
86	Transcription and the architecture of promoters in chloroplasts. <i>Trends in Plant Science</i> , 1999, 4, 169-170.	4.3	66
87	Organellar RNA Polymerases of Higher Plants. <i>International Review of Cytology</i> , 1999, 190, 1-59.	6.2	227
88	A gene family encoding glutathione peroxidase homologues in <i>Hordeum vulgare</i> (barley). <i>FEBS Letters</i> , 1999, 459, 33-38.	1.3	58
89	Characterisation of transcript initiation sites in ribosome-deficient barley plastids. , 1998, 36, 493-496.		67
90	Analysis of randomly selected cDNAs reveals the expression of stress- and defence-related genes in the barley mutant <i>albostrians</i> . <i>Plant Science</i> , 1998, 133, 191-201.	1.7	22

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91	Cloning and expression of a new cDNA from monocotyledonous plants coding for a diadenosine 5â€²,5â€²â€²-P <sub>1</sub> ,P <sub>4</sub> -tetraphosphate hydrolase from barley ( <i>Hordeum vulgare</i> ). <i>FEBS Letters</i> , 1998, 431, 481-485.	1.3	6
92	Splicing and intron-internal RNA editing of trnK-matK transcripts in barley plastids: support for MatK as an essential splice factor. <i>Journal of Molecular Biology</i> , 1997, 270, 179-187.	2.0	98
93	The mystery of the rings: structure and replication of mitochondrial genomes from higher plants. <i>Trends in Plant Science</i> , 1997, 2, 477-483.	4.3	147
94	Disruption of a <i>Synechocystis</i> PCC 6803 gene with partial similarity to phytochrome genes alters growth under changing light qualities. <i>FEBS Letters</i> , 1997, 406, 89-92.	1.3	96
95	A putative cytochrome <i>cbi</i> gene in <i>Synechocystis</i> PCC 68031. <i>FEBS Letters</i> , 1997, 408, 201-205.	1.3	14
96	Decrease in glycolate pathway enzyme activities in plastids and peroxisomes of the albostrians mutant of barley ( <i>Hordeum vulgare</i> L.). <i>Plant Science</i> , 1997, 124, 33-40.	1.7	15
97	A prokaryotic phytochrome. <i>Nature</i> , 1997, 386, 663-663.	13.7	325
98	High content, size and distribution of single-stranded DNA in the mitochondria of <i>Chenopodium album</i> (L.). <i>Plant Molecular Biology</i> , 1997, 33, 1037-1050.	2.0	36
99	Insertional mutagenesis of a peptide synthetase gene that is responsible for hepatotoxin production in the cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Molecular Microbiology</i> , 1997, 26, 779-787.	1.2	361
100	Impaired splicing of the rps 12 transcript in ribosome-deficient plastids. <i>Plant Molecular Biology</i> , 1996, 30, 109-123.	2.0	54
101	Toxic and non-toxic strains of the cyanobacterium <i>Microcystis aeruginosa</i> contain sequences homologous to peptide synthetase genes. <i>FEMS Microbiology Letters</i> , 1996, 135, 295-303.	0.7	94
102	Cloning and sequencing of mutant <i>psbB</i> genes of the cyanobacterium <i>Synechocystis</i> PCC 6803. <i>Photosynthesis Research</i> , 1993, 37, 139-146.	1.6	21
103	Chlorophyll Synthetase and Chloroplast tRNA <sup>glu</sup> are Present in Heat-Bleached, Ribosome-Deficient Plastids. <i>Journal of Plant Physiology</i> , 1992, 139, 427-430.	1.6	17
104	Components of chlorophyll biosynthesis in a barley <i>albina</i> mutant unable to synthesize $\delta$ -aminolevulinic acid by utilizing the transfer RNA for glutamic acid. <i>Planta</i> , 1992, 188, 19-27.	1.6	18
105	Plastome mutants. <i>Plant Molecular Biology Reporter</i> , 1986, 4, 69-92.	1.0	54
106	Polar Lipid Composition of a Plastid Ribosome-Deficient Barley Mutant. <i>Plant Physiology</i> , 1982, 69, 1467-1470.	2.3	34
107	Hybrid variegation in the genus <i>Pelargonium</i> . <i>Current Genetics</i> , 1982, 5, 245-249.	0.8	33
108	Enzymes of Plastid Ribosome-deficient Mutants. Ferredoxin-NADP <sup>+</sup> Reductase. <i>Biochemie Und Physiologie Der Pflanzen</i> , 1981, 176, 737-743.	0.5	3

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109	Cytoplasmic synthesis of plastid polypeptides may be controlled by plastid-synthesised RNA. Nature, 1979, 279, 816-817.	13.7	187
110	Transcription of Plastid Genes. , 0, , 184-224.		24