Steffen Reinbothe

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7037700/publications.pdf

Version: 2024-02-01

63	2,708	172457	182427
papers	citations	29 h-index	51 g-index

65	65	65	2627
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	tRNA-Dependent Import of a Transit Sequence-Less Aminoacyl-tRNA Synthetase (LeuRS2) into the Mitochondria of Arabidopsis. International Journal of Molecular Sciences, 2021, 22, 3808.	4.1	5
2	PRAT Proteins Operate in Organellar Protein Import and Export in Arabidopsis thaliana. Plants, 2021, 10, 958.	3.5	1
3	Substrate channeling in oxylipin biosynthesis through a protein complex in the plastid envelope ofArabidopsis thaliana. Journal of Experimental Botany, 2019, 70, 1483-1495.	4.8	28
4	ALLENE OXIDE SYNTHASE and HYDROPEROXIDE LYASE, Two Non-Canonical Cytochrome P450s in Arabidopsis thaliana and Their Different Roles in Plant Defense. International Journal of Molecular Sciences, 2019, 20, 3064.	4.1	22
5	A Protochlorophyllide (Pchlide) a Oxygenase for Plant Viability. Frontiers in Plant Science, 2019, 10, 593.	3.6	9
6	The complex world of plant protease inhibitors: Insights into a Kunitz-type cysteine protease inhibitor of Arabidopsis thaliana. Communicative and Integrative Biology, 2018, 11, e1368599.	1.4	53
7	NADPH:protochlorophyllide oxidoreductase B (PORB) action in Arabidopsis thaliana revisited through transgenic expression of engineered barley PORB mutant proteins. Plant Molecular Biology, 2017, 94, 45-59.	3.9	11
8	Serpin1 and WSCP differentially regulate the activity of the cysteine protease RD21 during plant development in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2212-2217.	7.1	67
9	HP30â€2, a mitochondrial PRAT protein for import of signal sequenceâ€less precursor proteins in Arabidopsis thaliana. Journal of Integrative Plant Biology, 2017, 59, 535-551.	8.5	3
10	An Ethylene-Protected Achillesâ€™ Heel of Etiolated Seedlings for Arthropod Deterrence. Frontiers in Plant Science, 2016, 7, 1246.	3.6	15
11	Jasmonic acid protects etiolated seedlings of Arabidopsis thaliana against herbivorous arthropods. Plant Signaling and Behavior, 2016, 11, e1214349.	2.4	6
12	Common functions of the chloroplast and mitochondrial co-chaperones cpDnaJL (CDF1) and mtDnaJ (PAM16) in protein import and ROS scavenging in Arabidopsis thaliana. Communicative and Integrative Biology, 2016, 9, e1119343.	1.4	10
13	Programmed chloroplast destruction during leaf senescence involves 13-lipoxygenase (13-LOX). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3383-3388.	7.1	40
14	Water-soluble chlorophyll protein is involved in herbivore resistance activation during greening of Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7303-7308.	7.1	32
15	Differences in gene expression between natural and artificially induced leaf senescence in barley. Journal of Plant Physiology, 2015, 176, 180-191.	3.5	23
16	A Kunitz-type protease inhibitor regulates programmed cell death during flower development inArabidopsis thaliana. Journal of Experimental Botany, 2015, 66, 6119-6135.	4.8	51
17	Cell growth defect factor 1 is crucial for the plastid import of NADPH:protochlorophyllide oxidoreductase A in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5838-5843.	7.1	16
18	New functions of the chloroplast Preprotein and Amino acid Transporter (PRAT) family members in protein import. Plant Signaling and Behavior, 2014, 9, e27693.	2.4	6

#	Article	IF	Citations
19	JIP60-mediated, jasmonate- and senescence-induced molecular switch in translation toward stress and defense protein synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14181-14186.	7.1	36
20	Three proteins mediate import of transit sequence-less precursors into the inner envelope of chloroplasts in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19962-19967.	7.1	27
21	Cell Growth Defect Factor1/CHAPERONE-LIKE PROTEIN OF POR1 Plays a Role in Stabilization of Light-Dependent Protochlorophyllide Oxidoreductase in Nicotiana benthamiana and Arabidopsis Â Â. Plant Cell, 2013, 25, 3944-3960.	6.6	35
22	Protein-Induced Excited-State Dynamics of Protochlorophyllide. Journal of Physical Chemistry A, 2011, 115, 7873-7881.	2.5	17
23	Implication of the oep16-1 Mutation in a flu-Independent, Singlet Oxygen-Regulated Cell Death Pathway in Arabidopsis thaliana. Plant and Cell Physiology, 2011, 52, 84-95.	3.1	19
24	The Outer Chloroplast Envelope Protein OEP16-1 for Plastid Import of NADPH:Protochlorophyllide Oxidoreductase A in Arabidopsis thaliana. Plant and Cell Physiology, 2011, 52, 96-111.	3.1	24
25	Singlet oxygen signaling links photosynthesis to translation and plant growth. Trends in Plant Science, 2010, 15, 499-506.	8.8	52
26	Chlorophyll biosynthesis: spotlight on protochlorophyllide reduction. Trends in Plant Science, 2010, 15, 614-624.	8.8	213
27	Singlet oxygen-dependent translational control in the tigrina-d.12 mutant of barley. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13112-13117.	7.1	53
28	Plant oxylipins: role of jasmonic acid during programmed cell death, defence and leaf senescence. FEBS Journal, 2009, 276, 4666-4681.	4.7	179
29	The allene oxide cyclase family of Arabidopsisâ€ƒthaliana â€“ localization and cyclization. FEBS Journal, 2008, 275, 2428-2441.	4.7	38
30	Three thioredoxin targets in the inner envelope membrane of chloroplasts function in protein import and chlorophyll metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4933-4938.	7.1	75
31	Photoprotective role of NADPH:protochlorophyllide oxidoreductase A. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12629-12634.	7.1	71
32	A Pentapeptide Motif Related to a Pigment Binding Site in the Major Light-Harvesting Protein of Photosystem II, LHCII, Governs Substrate-Dependent Plastid Import of NADPH:Protochlorophyllide Oxidoreductase A Â. Plant Physiology, 2008, 148, 694-703.	4.8	8
33	A substrate-independent, 14:3:3 protein-mediated plastid import pathway of NADPH:protochlorophyllide oxidoreductase A. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8538-8543.	7.1	26
34	Toc159- and Toc75-independent Import of a Transit Sequence-less Precursor into the Inner Envelope of Chloroplasts. Journal of Biological Chemistry, 2007, 282, 29482-29492.	3.4	77
35	A plant porphyria related to defects in plastid import of protochlorophyllide oxidoreductase A. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2019-2023.	7.1	40
36	In vitro-mutagenesis of NADPH:protochlorophyllide oxidoreductase B: two distinctive protochlorophyllide binding sites participate in enzyme catalysis and assembly. Molecular Genetics and Genomics, 2006, 275, 540-552.	2.1	15

#	Article	IF	Citations
37	A role for chlorophyllide a oxygenase in the regulated import and stabilization of light-harvesting chlorophyll a/b proteins. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4777-4782.	7.1	77
38	A role of Toc33 in the protochlorophyllide-dependent plastid import pathway of NADPH:protochlorophyllide oxidoreductase (POR) Aâ€. Plant Journal, 2005, 42, 1-12.	5.7	37
39	A Novel Role of Water-Soluble Chlorophyll Proteins in the Transitory Storage of Chorophyllide. Plant Physiology, 2004, 134, 1355-1365.	4.8	30
40	Identification of plastid envelope proteins required for import of protochlorophyllide oxidoreductase A into the chloroplast of barley. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2197-2202.	7.1	63
41	The outer plastid envelope protein Oep16: Role as precursor translocase in import of protochlorophyllide oxidoreductase A. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2203-2208.	7.1	61
42	A small family of LLS1-related non-heme oxygenases in plants with an origin amongst oxygenic photosynthesizers. Plant Molecular Biology, 2004, 54, 39-54.	3.9	72
43	LHPP, the light-harvesting NADPH:protochlorophyllide (Pchlide) oxidoreductase:Pchlide complex of etiolated plants, is developmentally expressed across the barley leaf gradient. Plant Science, 2004, 167, 1027-1041.	3.6	14
44	In Vitro Reconstitution of Light-harvesting POR-Protochlorophyllide Complex with Protochlorophyllides a and b. Journal of Biological Chemistry, 2003, 278, 807-815.	3.4	51
45	In Situ Conversion of Protochlorophyllideb to Protochlorophyllide a in Barley. Journal of Biological Chemistry, 2003, 278, 800-806.	3.4	43
46	The Extra Loop Distinguishing POR from the Structurally Related Short-chain Alcohol Dehydrogenases Is Dispensable for Pigment Binding but Needed for the Assembly of Light-harvesting POR-Protochlorophyllide Complex. Journal of Biological Chemistry, 2003, 278, 816-822.	3.4	14
47	The plastid transcription kinase from mustard (Sinapis albaL.). FEBS Journal, 2002, 269, 3329-3337.	0.2	75
48	A protochlorophyllide light-harvesting complex involved in de-etiolation of higher plants. Nature, 1999, 397, 80-84.	27.8	101
49	Temporal pattern of jasmonate-induced alterations in gene expression of barley leaves. Planta, 1997, 201, 281-287.	3.2	24
50	Evolution of Chlorophyll Biosynthesisâ€"The Challenge to Survive Photooxidation. Cell, 1996, 86, 703-705.	28.9	142
51	The Regulation of Enzymes Involved in Chlorophyll Biosynthesis. FEBS Journal, 1996, 237, 323-343.	0.2	120
52	Jasmonates - Secondary Messengers in Plant Defense and Stress Reactions. , 1996, , 249-259.		1
53	Accumulation of jasmonate, abscisic acid, specific transcripts and proteins in osmotically stressed barley leaf segments. Planta, 1995, 197, 156.	3.2	155
54	Cytosolic and plastid forms of 5-enolpyruvylshikimate-3-phosphate synthase in Euglena gracilis are differentially expressed during light-induced chloroplast development. Molecular Genetics and Genomics, 1994, 245, 616-622.	2.4	16

#	Article	IF	Citations
55	Induction by methyl jasmonate of embryogenesis-related proteins and mRNAs in Nicotinia plumbaginifolia. Plant Science, 1994, 104, 59-70.	3.6	14
56	Methyl jasmonate represses translation initiation of a specific set of mRNAs in barley. Plant Journal, 1993, 4, 459-467.	5.7	55
57	Overproduction by gene amplification of the multifunctional arom protein confers glyphosate tolerance to a plastid-free mutant of Euglena gracilis. Molecular Genetics and Genomics, 1993, 239, 416-424.	2.4	14
58	Differential accumulation of methyl jasmonate-induced mRNAs in response to abscisic acid and desiccation in barley (Hordeum vulgare). Physiologia Plantarum, 1992, 86, 49-56.	5.2	38
59	Differential gene expression during somatic embryogenesis in Digitalis lanata analyzed by in vivo and in vitro protein synthesis. Plant Journal, 1992, 2, 917-926.	5.7	15
60	N-(Phosphonomethyl)glycine (glyphosate) tolerance in Euglena gracilis acquired by either overproduced or resistant 5-enolpyruvylshikimate-3-phosphate synthase. FEBS Journal, 1991, 198, 365-373.	0.2	23
61	In-vitro transport of chloroplast proteins in a homologousEuglena system with particular reference to plastid leucyl-tRNA synthetase. Planta, 1990, 181, 176-183.	3.2	29
62	Partial purification and analysis of mRNAs for chloroplast and cytoplasmic aminoacyl-tRNA synthetases from Euglena gracilis. Journal of Plant Physiology, 1990, 137, 81-87.	3.5	9
63	Translational regulation of plastid gene expression inEuglena gracilis. FEBS Letters, 1990, 265, 7-11.	2.8	12