Steven M Theg

List of Publications by Year
in descending order

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45 papers	1,631 citations	331670 21 h-index	302126 39 g-index
68 all docs	68 docs citations	68 times ranked	1430 citing authors

#	ARTICLE	IF	CITATIONS
1	The chloroplast protein import system: From algae to trees. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 314-331.	4.1	158
2	Reciprocal Expression of Two Candidate Di-Iron Enzymes Affecting Photosystem I and Light-Harvesting Complex Accumulation. Plant Cell, 2002, 14, 673-688.	6.6	136
3	A Stromal Heat Shock Protein 70 System Functions in Protein Import into Chloroplasts in the Moss <i>Physcomitrella patens</i> Â Â Â. Plant Cell, 2010, 22, 205-220.	6.6	117
4	Energetics of Protein Transport across Biological Membranes. Cell, 2003, 112, 231-242.	28.9	103
5	Chloroplast outer membrane protein targeting and insertion. Trends in Plant Science, 2005, 10, 450-457.	8.8	101
6	A Homolog of Prokaryotic Thiol Disulfide Transporter CcdA Is Required for the Assembly of the Cytochrome bf Complex in Arabidopsis Chloroplasts. Journal of Biological Chemistry, 2004, 279, 32474-32482.	3.4	90
7	Complete maturation of the plastid protein translocation channel requires a type I signal peptidase. Journal of Cell Biology, 2005, 171, 425-430.	5.2	90
8	The Chloroplast Tat Pathway Utilizes the Transmembrane Electric Potential as an Energy Source. Biophysical Journal, 2007, 93, 1993-1998.	0.5	64
9	Characterization of the early steps of OE17 precursor transport by the thylakoid Î”pH/Tat machinery. FEBS Journal, 2000, 267, 2588-2598.	0.2	58
10	Toc64 is not required for import of proteins into chloroplasts in the moss Physcomitrella patens. Plant Journal, 2005, 43, 675-687.	5.7	57
11	ATP Requirement for Chloroplast Protein Import Is Set by the <i>K</i> Âm for ATP Hydrolysis of Stromal Hsp70 in <i>Physcomitrella patens</i> Â. Plant Cell, 2014, 26, 1246-1255.	6.6	54
12	Unassembled subunits of the photosynthetic oxygen-evolving complex present in the thylakoid lumen are long-lived and assembly-competent. FEBS Letters, 1996, 391, 29-34.	2.8	52
13	Role of Vesicleâ€Inducing Protein in Plastids 1 in cpTat transport at the thylakoid. Plant Journal, 2012, 71, 656-668.	5.7	44
14	Physcomitrella patens as a model for the study of chloroplast protein transport: conserved machineries between vascular and non-vascular plants. Plant Molecular Biology, 2003, 53, 643-654.	3.9	39
15	Energetic cost of protein import across the envelope membranes of chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 930-935.	7.1	35
16	Carbonic Anhydrase Activity of the Photosystem II OEC33 Protein from Pea. Plant and Cell Physiology, 2005, 46, 1944-1953.	3.1	32
17	Widespread polycistronic gene expression in green algae. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
18	Evolution of protein transport to the chloroplast envelope membranes. Photosynthesis Research, 2018, 138, 315-326.	2.9	29

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19	Evaluating the Functional Pore Size of Chloroplast TOC and TIC Protein Translocons: Import of Folded Proteins. Plant Cell, 2018, 30, 2161-2173.	6.6	28
20	New isoforms and assembly of glutamine synthetase in the leaf of wheat (<i>Triticum aestivum</i>L.). Journal of Experimental Botany, 2015, 66, 6827-6834.	4.8	26
21	Protein- and energy-mediated targeting of chloroplast outer envelope membrane proteins. Plant Journal, 2005, 44, 917-927.	5.7	25
22	The Sec and Tat Protein Translocation Pathways in Chloroplasts. The Enzymes, 2007, , 463-492.	1.7	25
23	Chloroplast Outer Membrane Î²-Barrel Proteins Use Components of the General Import Apparatus. Plant Cell, 2019, 31, 1845-1855.	6.6	21
24	Protein Import Motors in Chloroplasts: On the Role of Chaperones. Plant Cell, 2020, 32, 536-542.	6.6	21
25	Protein transport via the cpTat pathway displays cooperativity and is stimulated by transport-incompetent substrate. FEBS Letters, 2003, 540, 96-100.	2.8	19
26	Assembly of Newly Imported Oxygen-Evolving Complex Subunits in Isolated Chloroplasts: Sites of Assembly and Mechanism of Binding. Plant Cell, 1997, 9, 441.	6.6	15
27	The motors of protein import into chloroplasts. Plant Signaling and Behavior, 2011, 6, 1397-1401.	2.4	14
28	Chloroplast Chaperonin-Mediated Targeting of a Thylakoid Membrane Protein. Plant Cell, 2020, 32, 3884-3901.	6.6	14
29	Cryopreservation of Chloroplasts and Thylakoids for Studies of Protein Import and Integration. Plant Physiology, 1991, 95, 1259-1264.	4.8	13
30	The Chloroplast Tat Pathway Transports Substrates in the Dark. Journal of Biological Chemistry, 2008, 283, 8822-8828.	3.4	13
31	Structural considerations of folded protein import through the chloroplast <scp>TOC</scp>/<scp>TIC</scp> translocons. FEBS Letters, 2019, 593, 565-572.	2.8	13
32	The Formation of Stromules In Vitro from Chloroplasts Isolated from Nicotiana benthamiana. PLoS ONE, 2016, 11, e0146489.	2.5	13
33	Identification of a Role for an Azide-Sensitive Factor in the Thylakoid Transport of the 17-Kilodalton Subunit of the Photosynthetic Oxygen-Evolving Complex1. Plant Physiology, 1998, 116, 805-814.	4.8	12
34	Electrochromic shift supports the membrane destabilization model of Tat-mediated transport and shows ion leakage during Sec transport. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
35	Determinants of the Specificity of Protein Targeting to Chloroplasts or Mitochondria. Molecular Plant, 2019, 12, 893-895.	8.3	8
36	Hydrophobic mismatch is a key factor in protein transport across lipid bilayer membranes via the Tat pathway. Journal of Biological Chemistry, 2022, 298, 101991.	3.4	8

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37	Protein Targeting Across and into Chloroplast Membranes. Methods in Molecular Biology, 2011, 684, 139-157.	0.9	7
38	A new fluorescence-based method to monitor the pH in the thylakoid lumen using GFP variants. Biochemical and Biophysical Research Communications, 2017, 486, 1-5.	2.1	7
39	Measurement of the Î”pH and Electric Field Developed Across Arabidopsis Thylakoids in the Light. Methods in Molecular Biology, 2011, 775, 327-341.	0.9	7
40	Membrane Chaperoning of a Thylakoid Protease Whose Structural Stability Is Modified by the Protonmotive Force. Plant Cell, 2020, 32, 1589-1609.	6.6	6
41	Chloroplast transport and import. Photosynthesis Research, 2018, 138, 261-262.	2.9	3
42	Isolation of Physiologically Active Thylakoids and Their Use in Energy-Dependent Protein Transport Assays. Journal of Visualized Experiments, 2018, , .	0.3	3
43	Protein Transport and Post-translational Processing in Photosystem II Biosynthesis and Homeostasis. , 2005, , 669-682.		2
44	Methods for studying protein targeting to and within the chloroplast. Methods in Cell Biology, 2020, 160, 37-59.	1.1	1
45	Measurement of the Energetics of Protein Transport Across the Chloroplast Thylakoid Membrane. Methods in Molecular Biology, 2010, 619, 323-337.	0.9	1