Enrico Schleiff

List of Publications by Year
in descending order

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210 papers	9,987 citations	23567 58 h-index	48315 88 g-index
213 all docs	213 docs citations	213 times ranked	8772 citing authors

#	Article	IF	Citations
1	Photosystem II core phosphorylation and photosynthetic acclimation require two different protein kinases. Nature, 2005, 437, 1179-1182.	27.8	420
2	Protein import into chloroplasts. Nature Reviews Molecular Cell Biology, 2004, 5, 198-208.	37.0	368
3	Perspectives on deciphering mechanisms underlying plant heat stress response and thermotolerance. Frontiers in Plant Science, 2013, 4, 315.	3.6	323
4	Crosstalk between Hsp90 and Hsp70 Chaperones and Heat Stress Transcription Factors in Tomato. Plant Cell, 2011, 23, 741-755.	6.6	294
5	Common ground for protein translocation: access control for mitochondria and chloroplasts. Nature Reviews Molecular Cell Biology, 2011, 12, 48-59.	37.0	223
6	Lotus japonicusCASTOR and POLLUX Are Ion Channels Essential for Perinuclear Calcium Spiking in Legume Root Endosymbiosis. Plant Cell, 2009, 20, 3467-3479.	6.6	208
7	Characterization of the translocon of the outer envelope of chloroplasts. Journal of Cell Biology, 2003, 160, 541-551.	5.2	195
8	Prospects of engineering thermotolerance in crops through modulation of heat stress transcription factor and heat shock protein networks. Plant, Cell and Environment, 2015, 38, 1881-1895.	5.7	181
9	The molecular chaperone Hsp90 delivers precursor proteins to the chloroplast import receptor Toc64. EMBO Journal, 2006, 25, 1836-1847.	7.8	157
10	Prp43 Bound at Different Sites on the Pre-rRNA Performs Distinct Functions in Ribosome Synthesis. Molecular Cell, 2009, 36, 583-592.	9.7	152
11	HsfA2 Controls the Activity of Developmentally and Stress-Regulated Heat Stress Protection Mechanisms in Tomato Male Reproductive Tissues. Plant Physiology, 2016, 170, 2461-2477.	4.8	148
12	Toc34 is a preprotein receptor regulated by GTP and phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4973-4978.	7.1	127
13	A plant outer mitochondrial membrane protein with high amino acid sequence identity to a chloroplast protein import receptor. FEBS Letters, 2004, 557, 109-114.	2.8	126
14	Plant-Specific Features of Ribosome Biogenesis. Trends in Plant Science, 2015, 20, 729-740.	8.8	126
15	Membrane protein insertion: mixing eukaryotic and prokaryotic concepts. EMBO Reports, 2005, 6, 1023-1027.	4.5	124
16	Preprotein recognition by the Toc complex. EMBO Journal, 2004, 23, 520-530.	7.8	120
17	DNA Damage in Oocytes Induces a Switch of the Quality Control Factor TAp63Î± from Dimer to Tetramer. Cell, 2011, 144, 566-576.	28.9	117
18	A GTP-driven motor moves proteins across the outer envelope of chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4604-4609.	7.1	113

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19	A Toc75â€like protein import channel is abundant in chloroplasts. EMBO Reports, 2002, 3, 557-562.	4.5	110
20	Prediction of the plant beta-barrel proteome: A case study of the chloroplast outer envelope. Protein Science, 2003, 12, 748-759.	7.6	110
21	Protein targeting to subcellular organelles via mRNA localization. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 260-273.	4.1	101
22	Two Toc34 Homologues with Different Propertiesâ€. Biochemistry, 2003, 42, 5906-5916.	2.5	99
23	The chloroplast outer membrane protein CHUP1 interacts with actin and profilin. Planta, 2008, 227, 1151-1159.	3.2	98
24	Toc12, a Novel Subunit of the Intermembrane Space Preprotein Translocon of Chloroplasts. Molecular Biology of the Cell, 2004, 15, 5130-5144.	2.1	93
25	Hiding behind Hydrophobicity. Journal of Biological Chemistry, 2004, 279, 50915-50922.	3.4	91
26	The cell wall in heterocyst formation by Anabaena sp. PCC 7120. Journal of Basic Microbiology, 2009, 49, 5-24.	3.3	89
27	Tethering of ferredoxin:NADP⁺ oxidoreductase to thylakoid membranes is mediated by novel chloroplast protein TROL. Plant Journal, 2009, 60, 783-794.	5.7	89
28	The evolution of the ribosome biogenesis pathway from a yeast perspective. Nucleic Acids Research, 2014, 42, 1509-1523.	14.5	87
29	Travelling of proteins through membranes: translocation into chloroplasts. Planta, 2000, 211, 449-456.	3.2	84
30	The Evolutionarily Related Î²-Barrel Polypeptide Transporters from Pisum sativum and Nostoc PCC7120 Contain Two Distinct Functional Domains. Journal of Biological Chemistry, 2005, 280, 28281-28289.	3.4	83
31	Toc64 - A Preprotein-receptor at the Outer Membrane with Bipartide Function. Journal of Molecular Biology, 2007, 367, 1330-1346.	4.2	82
32	Outer membrane continuity and septosome formation between vegetative cells in the filaments of Anabaena sp. PCC 7120. Cellular Microbiology, 2011, 13, 1744-1754.	2.1	81
33	Chloroplast Omp85 proteins change orientation during evolution. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13841-13846.	7.1	80
34	Characterization of the targeting signal in mitochondrial Î²-barrel proteins. Nature Communications, 2016, 7, 12036.	12.8	80
35	Alr0397 Is an Outer Membrane Transporter for the Siderophore Schizokinen inAnabaenasp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 7500-7507.	2.2	77
36	50Âyears of amino acid hydrophobicity scales: revisiting the capacity for peptide classification. Biological Research, 2016, 49, 31.	3.4	77

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37	Lipid Composition of Outer Leaflet of Chloroplast Outer Envelope Determines Topology of OEP7. Molecular Biology of the Cell, 2001, 12, 4090-4102.	2.1	76
38	Defining the Core Proteome of the Chloroplast Envelope Membranes. Frontiers in Plant Science, 2013, 4, 11.	3.6	75
39	Conserved pore-forming regions in polypeptide- transporting proteins. FEBS Journal, 2005, 272, 1367-1378.	4.7	74
40	Functional and Phylogenetic Properties of the Pore-forming Î²-Barrel Transporters of the Omp85 Family. Journal of Biological Chemistry, 2007, 282, 1882-1890.	3.4	74
41	Separating mitochondrial protein assembly and endoplasmic reticulum tethering by selective coupling of Mdm10. Nature Communications, 2016, 7, 13021.	12.8	74
42	40S Ribosome Biogenesis Co-Factors Are Essential for Gametophyte and Embryo Development. PLoS ONE, 2013, 8, e54084.	2.5	74
43	Filling the Gap, Evolutionarily Conserved Omp85 in Plastids of Chromalveolates. Journal of Biological Chemistry, 2010, 285, 6848-6856.	3.4	73
44	Chloroplast Import Signals: The Length Requirement for Translocation In Vitro and In Vivo. Journal of Molecular Biology, 2010, 402, 510-523.	4.2	73
45	Without a little help from â€˜myâ€™ friends: direct insertion of proteins into chloroplast membranes?. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1541, 22-33.	4.1	72
46	Structural and Guanosine Triphosphate/Diphosphate Requirements for Transit Peptide Recognition by the Cytosolic Domain of the Chloroplast Outer Envelope Receptor, Toc34â€. Biochemistry, 2002, 41, 1934-1946.	2.5	72
47	Chaperone network composition in <scp>S</scp>olanum lycopersicum explored by transcriptome profiling and microarray metaâ€analysis. Plant, Cell and Environment, 2015, 38, 693-709.	5.7	71
48	The Protein Translocon of the Plastid Envelopes. Journal of Biological Chemistry, 2004, 279, 21401-21405.	3.4	70
49	A plastid-localized glycogen synthase kinaseâ€ƒ3 modulates stress tolerance and carbohydrate metabolism. Plant Journal, 2007, 49, 1076-1090.	5.7	70
50	Unfolded protein response in pollen development and heat stress tolerance. Plant Reproduction, 2016, 29, 81-91.	2.2	70
51	The Chloroplast Import Receptor Toc34 Functions as Preprotein-Regulated GTPase. Biological Chemistry, 2002, 383, 1875-83.	2.5	68
52	Iron in Cyanobacteria. Advances in Botanical Research, 2013, , 57-105.	1.1	68
53	Mdm10 is an ancient eukaryotic porin co-occurring with the ERMES complex. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3314-3325.	4.1	68
54	atBRX1-1 and atBRX1-2 are involved in an alternative rRNA processing pathway in Arabidopsis thaliana. Rna, 2015, 21, 415-425.	3.5	68

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55	Topology Studies of the Chloroplast Protein Import Channel Toc75. Biological Chemistry, 2000, 381, 687-693.	2.5	64
56	Structural and functional analysis of the archaeal endonuclease Nob1. Nucleic Acids Research, 2012, 40, 3259-3274.	14.5	64
57	The association of late-acting snoRNPs with human pre-ribosomal complexes requires the RNA helicase DDX21. Nucleic Acids Research, 2015, 43, 553-564.	14.5	64
58	The repressor and coâ€activator HsfB1 regulates the major heat stress transcription factors in tomato. Plant, Cell and Environment, 2019, 42, 874-890.	5.7	63
59	Identification and Expression Analysis of Ribosome Biogenesis Factor Co-orthologs inSolanum lycopersicum. Bioinformatics and Biology Insights, 2015, 9, BBI.S20751.	2.0	62
60	TonB-dependent transporters and their occurrence in cyanobacteria. BMC Biology, 2009, 7, 68.	3.8	61
61	The interplay between siderophore secretion and coupled iron and copper transport in the heterocyst-forming cyanobacterium Anabaena sp. PCC 7120. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 2131-2140.	2.6	61
62	Direct Membrane Insertion of Voltage-dependent Anion-selective Channel Protein Catalyzed by Mitochondrial Tom20. Journal of Cell Biology, 1999, 145, 973-978.	5.2	59
63	The Recent Evolution of a Symbiotic Ion Channel in the Legume Family Altered Ion Conductance and Improved Functionality in Calcium Signaling. Plant Cell, 2012, 24, 2528-2545.	6.6	57
64	The Tetratricopeptide Repeats of Receptors Involved in Protein Translocation across Membranes. Molecular Biology and Evolution, 2007, 24, 2763-2774.	8.9	56
65	Alternative splicing in tomato pollen in response to heat stress. DNA Research, 2017, 24, dsw051.	3.4	55
66	Natural variation in HsfA2 preâ€mRNA splicing is associated with changes in thermotolerance during tomato domestication. New Phytologist, 2020, 225, 1297-1310.	7.3	55
67	Proteomic Analysis of the Outer Membrane ofAnabaenasp. Strain PCC 7120. Journal of Proteome Research, 2005, 4, 1330-1338.	3.7	54
68	Conserved Properties of Polypeptide Transport-associated (POTRA) Domains Derived from Cyanobacterial Omp85. Journal of Biological Chemistry, 2010, 285, 18016-18024.	3.4	53
69	The GTPase Cycle of the Chloroplast Import ReceptorsÂToc33/Toc34: Implications from MonomericÂand Dimeric Structures. Structure, 2008, 16, 585-596.	3.3	52
70	Interactions of the Human Mitochondrial Protein Import Receptor, hTom20, with Precursor Proteins in Vitro Reveal Pleiotropic Specificities and Different Receptor Domain Requirements. Journal of Biological Chemistry, 1997, 272, 17784-17789.	3.4	51
71	A TolC-Like Protein Is Required for Heterocyst Development inAnabaenasp. Strain PCC 7120. Journal of Bacteriology, 2007, 189, 7887-7895.	2.2	51
72	The outer membrane of a heterocystâ€forming cyanobacterium is a permeability barrier for uptake of metabolites that are exchanged between cells. Molecular Microbiology, 2009, 74, 58-70.	2.5	51

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73	Proteome distribution between nucleoplasm and nucleolus and its relation to ribosome biogenesis inArabidopsis thaliana. RNA Biology, 2016, 13, 441-454.	3.1	48
74	Plant-specific ribosome biogenesis factors in Arabidopsis thaliana with essential function in rRNA processing. Nucleic Acids Research, 2019, 47, 1880-1895.	14.5	47
75	A pre-ribosomal RNA interaction network involving snoRNAs and the Rok1 helicase. Rna, 2014, 20, 1173-1182.	3.5	45
76	Policing Tic â€˜nâ€™ Toc, the doorway to chloroplasts. Trends in Cell Biology, 2008, 18, 19-27.	7.9	44
77	The components of the putative iron transport system in the cyanobacterium Anabaena sp. PCC 7120. Environmental Microbiology, 2012, 14, 1655-1670.	3.8	44
78	The 60S associated ribosome biogenesis factor <scp>LSG</scp>1â€2 is required for 40S maturation in Arabidopsis thaliana. Plant Journal, 2014, 80, 1043-1056.	5.7	43
79	Multiple modes of iron uptake by the filamentous, siderophoreâ€producing cyanobacterium, <scp>A</scp>nabaena sp. <scp>PCC</scp> 7120. Molecular Microbiology, 2015, 97, 577-588.	2.5	43
80	Functional and Structural Properties of the Mitochondrial Outer Membrane Receptor Tom20â€. Biochemistry, 1998, 37, 13043-13051.	2.5	42
81	Membrane insertion of the chloroplast outer envelope protein, Toc34:constrains for insertion and topology. Journal of Cell Science, 2003, 116, 837-846.	2.0	42
82	Essential ribosome assembly factor Fap7 regulates a hierarchy of RNAâ€“protein interactions during small ribosomal subunit biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15253-15258.	7.1	40
83	Myristoylation Does Not Modulate the Properties of MARCKS-related Protein (MRP) in Solution. Journal of Biological Chemistry, 1996, 271, 26794-26802.	3.4	39
84	Protein cofactor competition regulates the action of a multifunctional RNA helicase in different pathways. RNA Biology, 2016, 13, 320-330.	3.1	39
85	The evolution of protein targeting and translocation systems. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 1115-1130.	4.1	38
86	A highâ€definition native polyacrylamide gel electrophoresis system for the analysis of membrane complexes. Plant Journal, 2011, 67, 181-194.	5.7	38
87	Protein-Induced Modulation of Chloroplast Membrane Morphology. Frontiers in Plant Science, 2011, 2, 118.	3.6	38
88	The composition of the global and feature specific cyanobacterial core-genomes. Frontiers in Microbiology, 2015, 6, 219.	3.5	38
89	The invariant phenylalanine of precursor proteins discloses the importance of Omp85 for protein translocation into cyanelles. BMC Evolutionary Biology, 2007, 7, 236.	3.2	36
90	From Biological towards Artificial Molecular Motors. ChemPhysChem, 2008, 9, 1503-1509.	2.1	36

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91	Dual targeting of the tRNA nucleotidyltransferase in plants: not just the signal. Journal of Experimental Botany, 2007, 58, 4083-4093.	4.8	35
92	The TolC-like Protein HgdD of the Cyanobacterium Anabaena sp. PCC 7120 Is Involved in Secondary Metabolite Export and Antibiotic Resistance. Journal of Biological Chemistry, 2012, 287, 41126-41138.	3.4	34
93	The Complexity of Vesicle Transport Factors in Plants Examined by Orthology Search. PLoS ONE, 2014, 9, e97745.	2.5	34
94	Structure and Conservation of the Periplasmic Targeting Factor Tic22 Protein from Plants and Cyanobacteria. Journal of Biological Chemistry, 2012, 287, 24164-24173.	3.4	33
95	The Peptidoglycan-Binding Protein SjcF1 Influences Septal Junction Function and Channel Formation in the Filamentous Cyanobacterium Anabaena. MBio, 2015, 6, e00376.	4.1	33
96	The proteome of the heterocyst cell wall in Anabaena sp. PCC 7120. Biological Chemistry, 2007, 388, 823-9.	2.5	32
97	The localization of Tic20 proteins in Arabidopsis thaliana is not restricted to the inner envelope membrane of chloroplasts. Plant Molecular Biology, 2011, 77, 381-390.	3.9	32
98	Citrus exocortis viroid causes ribosomal stress in tomato plants. Nucleic Acids Research, 2019, 47, 8649-8661.	14.5	32
99	Molecular Properties of Oep21, an ATP-regulated Anion-selective Solute Channel from the Outer Chloroplast Membrane. Journal of Biological Chemistry, 2006, 281, 12020-12029.	3.4	31
100	Structural elements of the mitochondrial preprotein-conducting channel Tom40 dissolved by bioinformatics and mass spectrometry. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1647-1657.	1.0	31
101	Omp85 in eukaryotic systems: one protein family with distinct functions. Biological Chemistry, 2011, 392, 21-7.	2.5	31
102	Human mitochondrial import receptor, Tom20p. Use of glutathione to reveal specific interactions between Tom20-glutathione S -transferase and mitochondrial precursor proteins. FEBS Letters, 1997, 404, 314-318.	2.8	30
103	Chloroplast Î²-Barrel Proteins Are Assembled into the Mitochondrial Outer Membrane in a Process That Depends on the TOM and TOB Complexes. Journal of Biological Chemistry, 2012, 287, 27467-27479.	3.4	30
104	<scp>T</scp>oc33 and <scp>T</scp>oc64â€<scp>III</scp> cooperate in precursor protein import into the chloroplasts of <scp>A</scp>rabidopsis thaliana. Plant, Cell and Environment, 2013, 36, 970-983.	5.7	30
105	In Vivo Function of Tic22, a Protein Import Component of the Intermembrane Space of Chloroplasts. Molecular Plant, 2013, 6, 817-829.	8.3	30
106	Let's Talk aboutâ€"Chloroplast Import. Plant Biology, 2005, 7, 1-14.	3.8	29
107	Evolutionarily evolved discriminators in the 3-TPR domain of the Toc64 family involved in protein translocation at the outer membrane of chloroplasts and mitochondria. Journal of Molecular Modeling, 2009, 15, 971-982.	1.8	29
108	On the Impact of Precursor Unfolding during Protein Import into Chloroplasts. Molecular Plant, 2010, 3, 499-508.	8.3	29

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109	Identification of novel small ncRNAs in pollen of tomato. BMC Genomics, 2015, 16, 714.	2.8	27
110	Phosphorylation regulates the assembly of chloroplast import machinery. Journal of Experimental Botany, 2008, 59, 2309-2316.	4.8	26
111	On the Significance of Toc-GTPase Homodimers. Journal of Biological Chemistry, 2008, 283, 23104-23112.	3.4	26
112	Nucleolar Proteome Analysis and Proteasomal Activity Assays Reveal a Link between Nucleolus and 26S Proteasome in A. thaliana. Frontiers in Plant Science, 2017, 8, 1815.	3.6	26
113	HEATSTER: A Database and Web Server for Identification and Classification of Heat Stress Transcription Factors in Plants. Bioinformatics and Biology Insights, 2019, 13, 117793221882136.	2.0	26
114	Chloroplast protein import inhibition by a soluble factor from wheat germ lysate. Plant Molecular Biology, 2002, 50, 177-185.	3.9	25
115	Phosphoâ€mimicry mutant of atToc33 affects early development of Arabidopsis thaliana. FEBS Letters, 2007, 581, 5945-5951.	2.8	25
116	Substrate binding disrupts dimerization and induces nucleotide exchange of the chloroplast GTPase Toc33. Biochemical Journal, 2011, 436, 313-319.	3.7	25
117	The membrane proteome of male gametophyte in Solanum lycopersicum. Journal of Proteomics, 2016, 131, 48-60.	2.4	25
118	Interactions of Myristoylated Alanine-Rich C Kinase Substrate (MARCKS)-Related Protein with a Novel Solid-Supported Lipid Membrane System (TRANSIL). Analytical Biochemistry, 1999, 268, 343-353.	2.4	24
119	Secretome analysis of <scp>A</scp>nabaena sp. <scp>PCC</scp> 7120 and the involvement of the <scp>TolC</scp>â€homologue <scp>HgdD</scp> in protein secretion. Environmental Microbiology, 2015, 17, 767-780.	3.8	24
120	Transitions of gene expression induced by shortâ€term blue light. Plant Biology, 2011, 13, 349-361.	3.8	23
121	The protein translocation systems in plants â€“ composition and variability on the example of Solanum lycopersicum. BMC Genomics, 2013, 14, 189.	2.8	23
122	Metalloproteins in the Biology of Heterocysts. Life, 2019, 9, 32.	2.4	23
123	The central matrix loop drives import of uncoupling protein 1 into mitochondria. Journal of Cell Science, 2000, 113, 2267-2272.	2.0	23
124	Characterization of the N-Terminal Targeting Signal Binding Domain of the Mitochondrial Outer Membrane Receptor, Tom20â€. Biochemistry, 1998, 37, 13052-13058.	2.5	22
125	The properties of the outer membrane localized Lipid A transporter LptD. Journal of Physics Condensed Matter, 2010, 22, 454124.	1.8	22
126	The Outer Membrane TolC-like Channel HgdD Is Part of Tripartite Resistance-Nodulation-Cell Division (RND) Efflux Systems Conferring Multiple-drug Resistance in the Cyanobacterium Anabaena sp. PCC7120. Journal of Biological Chemistry, 2013, 288, 31192-31205.	3.4	22

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127	Cell Envelope Components Influencing Filament Length in the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2014, 196, 4026-4035.	2.2	22
128	Microgravity research in plants. EMBO Reports, 2019, 20, e48541.	4.5	22
129	miRNAs involved in transcriptome remodeling during pollen development and heat stress response in Solanum lycopersicum. Scientific Reports, 2020, 10, 10694.	3.3	22
130	Hsp90 Is Involved in the Regulation of Cytosolic Precursor Protein Abundance in Tomato. Molecular Plant, 2015, 8, 228-241.	8.3	21
131	Relative Orientation of POTRA Domains from Cyanobacterial Omp85 Studied by Pulsed EPR Spectroscopy. Biophysical Journal, 2016, 110, 2195-2206.	0.5	21
132	Survey of Genes Involved in Biosynthesis, Transport, and Signaling of Phytohormones with Focus onSolanum lycopersicum. Bioinformatics and Biology Insights, 2016, 10, BBI.S38425.	2.0	21
133	Nucleotides and Substrates Trigger the Dynamics of the Toc34 GTPase Homodimer Involved in Chloroplast Preprotein Translocation. Structure, 2014, 22, 526-538.	3.3	20
134	Functional diversification of tomato HsfA1 factors is based on DNA binding domain properties. Gene, 2019, 714, 143985.	2.2	20
135	Dynamics of the Glycophorin A Dimer in Membranes of Native-Like Composition Uncovered by Coarse-Grained Molecular Dynamics Simulations. PLoS ONE, 2015, 10, e0133999.	2.5	19
136	Reprogramming of Tomato Leaf Metabolome by the Activity of Heat Stress Transcription Factor HsfB1. Frontiers in Plant Science, 2020, 11, 610599.	3.6	19
137	Positively charged residues, the helical conformation and the structural flexibility of the leader sequence of pALDH are important for recognition by hTom20. FEBS Letters, 1999, 461, 9-12.	2.8	18
138	Identification and Characterization of a Thermotolerant TILLING Allele of Heat Shock Binding Protein 1 in Tomato. Genes, 2019, 10, 516.	2.4	18
139	Prediction of beta-barrel membrane proteins by searching for restricted domains. BMC Bioinformatics, 2005, 6, 254.	2.6	17
140	Identification of two voltage-dependent anion channel-like protein sequences conserved in Kinetoplastida. Biology Letters, 2012, 8, 446-449.	2.3	17
141	The functional domains of the chloroplast unusual positioning protein 1. Plant Science, 2011, 180, 650-654.	3.6	16
142	Comparative Phenotypic Analysis of Anabaena sp. PCC 7120 Mutants of Porinlike Genes. Journal of Microbiology and Biotechnology, 2021, 31, 645-658.	2.1	16
143	The response of the TonB-dependent transport network in Anabaena sp. PCC 7120 to cell density and metal availability. BioMetals, 2013, 26, 549-560.	4.1	15
144	Protein Targeting and Transport as a Necessary Consequence of Increased Cellular Complexity. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016055-a016055.	5.5	15

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145	Multiplicity and specificity of siderophore uptake in the cyanobacterium Anabaena sp. PCC 7120. Plant Molecular Biology, 2016, 92, 57-69.	3.9	15
146	Insertion of plastidic Î²-barrel proteins into the outer envelopes of plastids involves an intermembrane space intermediate formed with Toc75-V/OEP80. Plant Cell, 2021, 33, 1657-1681.	6.6	15
147	Molecular interactions within the plant TOC complex. Biological Chemistry, 2009, 390, 739-744.	2.5	14
148	Regulation of two GTPases Toc159 and Toc34 in the translocon of the outer envelope of chloroplasts. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 627-636.	2.3	14
149	The Existence and Localization of Nuclear snoRNAs in Arabidopsis thaliana Revisited. Plants, 2020, 9, 1016.	3.5	14
150	Structural and Functional Heat Stress Responses of Chloroplasts of Arabidopsis thaliana. Genes, 2020, 11, 650.	2.4	14
151	Toc75â€V/OEP80 is processed during translocation into chloroplasts, and the membraneâ€embedded form exposes its POTRA domain to the intermembrane space. FEBS Open Bio, 2020, 10, 444-454.	2.3	14
152	HsfA7 coordinates the transition from mild to strong heat stress response by controlling the activity of the master regulator HsfA1a in tomato. Cell Reports, 2022, 38, 110224.	6.4	14
153	Movement of Endosymbiotic Organelles. Current Protein and Peptide Science, 2007, 8, 426-438.	1.4	13
154	The plastid outer membrane localized LPTD1 is important for glycerolipid remodelling under phosphate starvation. Plant, Cell and Environment, 2017, 40, 1643-1657.	5.7	13
155	The central matrix loop drives import of uncoupling protein 1 into mitochondria. Journal of Cell Science, 2000, 113 (Pt 12), 2267-72.	2.0	13
156	Signals and receptors--the translocation machinery on the mitochondrial surface. , 2000, 32, 55-66.		12
157	The folding capacity of the mature domain of the dual-targeted plant tRNA nucleotidyltransferase influences organelle selection. Biochemical Journal, 2013, 453, 401-412.	3.7	12
158	<scp>DNA</scp>â€binding and repressor function are prerequisites for the turnover of the tomato heat stress transcription factor HsfB1. Plant Journal, 2017, 89, 31-44.	5.7	12
159	Outer Membrane Proteins. , 2010, , 175-228.		11
160	Importance of organellar proteins, protein translocation and vesicle transport routes for pollen development and function. Plant Reproduction, 2016, 29, 53-65.	2.2	11
161	The signal distinguishing between targeting of outer membrane Î²-barrel protein to plastids and mitochondria in plants. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 663-672.	4.1	11
162	Identification and Regulation of Tomato Serine/Arginine-Rich Proteins Under High Temperatures. Frontiers in Plant Science, 2021, 12, 645689.	3.6	11

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163	Determination of liposome size: A tool for protein reconstitution. Analytical Biochemistry, 2005, 347, 24-33.	2.4	10
164	Pollen as a target of environmental changes. Plant Reproduction, 2016, 29, 1-2.	2.2	10
165	Eukaryotic Hsp70 chaperones in the intermembrane space of chloroplasts. Planta, 2016, 243, 733-747.	3.2	10
166	Modeling the Metabolism of Arabidopsis thaliana: Application of Network Decomposition and Network Reduction in the Context of Petri Nets. Frontiers in Genetics, 2017, 8, 85.	2.3	10
167	Iron homeostasis of cyanobacteria: advancements in siderophores and metal transporters. , 2020, , 85-117.		10
168	The Arabidopsis 2â€²-O-Ribose-Methylation and Pseudouridylation Landscape of rRNA in Comparison to Human and Yeast. Frontiers in Plant Science, 2021, 12, 684626.	3.6	10
169	Chloroplast Protein Import: Reverse Genetic Approaches. Current Genomics, 2006, 7, 235-244.	1.6	9
170	Chloroplast outer envelope protein P39 in <scp>A</scp>rabidopsis thaliana belongs to the Omp85 protein family. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1391-1401.	2.6	8
171	The intracellular distribution of the components of the GET system in vascular plants. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1650-1662.	4.1	8
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