Danny J Schnell

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5517932/publications.pdf

Version: 2024-02-01

67	4,531	117625	102487
papers	citations	34 h-index	66 g-index

68	68	68	2549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The major protein import receptor of plastids is essential for chloroplast biogenesis. Nature, 2000, 403, 203-207.	27.8	336
2	Tic20 and Tic22 Are New Components of the Protein Import Apparatus at the Chloroplast Inner Envelope Membrane. Journal of Cell Biology, 1998, 143, 991-1002.	5.2	236
3	Protein Translocons. Cell, 2003, 112, 491-505.	28.9	226
4	Analysis of the Interactions of Preproteins with the Import Machinery over the Course of Protein Import into Chloroplasts. Journal of Cell Biology, 1997, 139, 1677-1685.	5.2	191
5	Members of the Toc159 Import Receptor Family Represent Distinct Pathways for Protein Targeting to Plastids. Molecular Biology of the Cell, 2004, 15, 3379-3392.	2.1	190
6	The Plastid Protein THYLAKOID FORMATION1 and the Plasma Membrane G-Protein GPA1 Interact in a Novel Sugar-Signaling Mechanism in Arabidopsis. Plant Cell, 2006, 18, 1226-1238.	6.6	187
7	atToc159 is a selective transit peptide receptor for the import of nucleus-encoded chloroplast proteins. Journal of Cell Biology, 2004, 165, 323-334.	5.2	148
8	In Vivo Analysis of the Role of atTic20 in Protein Import into Chloroplasts. Plant Cell, 2002, 14, 641-654.	6.6	138
9	New Insights into the Mechanism of Chloroplast Protein Import and Its Integration with Protein Quality Control, Organelle Biogenesis and Development. Journal of Molecular Biology, 2015, 427, 1038-1060.	4.2	131
10	Arabidopsis Tic110 Is Essential for the Assembly and Function of the Protein Import Machinery of Plastids. Plant Cell, 2005, 17, 1482-1496.	6.6	125
11	Involvement of a Bacterial Microcompartment in the Metabolism of Fucose and Rhamnose by Clostridium phytofermentans. PLoS ONE, 2013, 8, e54337.	2.5	120
12	Chloroplast biogenesis: diversity and regulation of the protein import apparatus. Current Opinion in Cell Biology, 2009, 21, 494-500.	5.4	118
13	The Function and Diversity of Plastid Protein Import Pathways: A Multilane GTPase Highway into Plastids. Traffic, 2006, 7, 248-257.	2.7	114
14	Initial Binding of Preproteins Involving the Toc159 Receptor Can Be Bypassed during Protein Import into Chloroplasts. Plant Physiology, 2000, 122, 813-822.	4.8	112
15	atTic110 Functions as a Scaffold for Coordinating the Stromal Events of Protein Import into Chloroplasts. Journal of Biological Chemistry, 2003, 278, 38617-38627.	3.4	112
16	Identification of proteins associated with plastoglobules isolated from pea (Pisum sativum L.) chloroplasts. Planta, 1999, 208, 107-113.	3.2	107
17	Import Pathways of Chloroplast Interior Proteins and the Outer-Membrane Protein OEP14 Converge at Toc75. Plant Cell, 2004, 16, 2078-2088.	6.6	104
18	Protein import into chloroplasts. Trends in Cell Biology, 1999, 9, 222-227.	7.9	92

#	Article	IF	Citations
19	An essential role for chloroplast heat shock protein 90 (Hsp90C) in protein import into chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3173-3178.	7.1	91
20	The targeting of the atToc159 preprotein receptor to the chloroplast outer membrane is mediated by its GTPase domain and is regulated by GTP. Journal of Cell Biology, 2002, 159, 833-843.	5.2	87
21	Reconstitution of protein targeting to the inner envelope membrane of chloroplasts. Journal of Cell Biology, 2006, 175, 249-259.	5.2	78
22	The Molecular Basis for Distinct Pathways for Protein Import into Arabidopsis Chloroplasts. Plant Cell, 2010, 22, 1947-1960.	6.6	78
23	Essential role of the G-domain in targeting of the protein import receptor atToc159 to the chloroplast outer membrane. Journal of Cell Biology, 2002, 159, 845-854.	5.2	77
24	Insertion of the 34-kDa Chloroplast Protein Import Component, IAP34, into the Chloroplast Outer Membrane Is Dependent on Its Intrinsic GTP-binding Capacity. Journal of Biological Chemistry, 1997, 272, 6614-6620.	3.4	73
25	The Roles of Toc34 and Toc75 in Targeting the Toc159 Preprotein Receptor to Chloroplasts. Journal of Biological Chemistry, 2003, 278, 44289-44297.	3.4	71
26	Tic22 Is Targeted to the Intermembrane Space of Chloroplasts by a Novel Pathway. Journal of Biological Chemistry, 1999, 274, 25181-25186.	3.4	65
27	Chloroplast protein import: solve the GTPase riddle for entry. Trends in Cell Biology, 2004, 14, 334-338.	7.9	60
28	Shedding light on the chloroplast protein import machinery. Cell, 1995, 83, 521-524.	28.9	59
29	A Toc159 Import Receptor Mutant, Defective in Hydrolysis of GTP, Supports Preprotein Import into Chloroplasts. Journal of Biological Chemistry, 2009, 284, 8670-8679.	3.4	55
30	Arabidopsis Tic40 Expression in Tobacco Chloroplasts Results in Massive Proliferation of the Inner Envelope Membrane and Upregulation of Associated Proteins. Plant Cell, 2008, 20, 3405-3417.	6.6	54
31	Transcriptome profiling of Camelina sativa to identify genes involved in triacylglycerol biosynthesis and accumulation in the developing seeds. Biotechnology for Biofuels, 2016, 9, 136.	6.2	53
32	Origins, function, and regulation of the TOCâ€“TIC general protein import machinery of plastids. Journal of Experimental Botany, 2020, 71, 1226-1238.	4.8	52
33	Determinants for Stop-transfer and Post-import Pathways for Protein Targeting to the Chloroplast Inner Envelope Membrane. Journal of Biological Chemistry, 2010, 285, 12948-12960.	3.4	47
34	Multi-functional roles for the polypeptide transport associated domains of Toc75 in chloroplast protein import. ELife, 2016, 5, .	6.0	44
35	Engineering Camelina sativa (L.) Crantz for enhanced oil and seed yields by combining diacylglycerol acyltransferase1 and glycerolâ€3â€phosphate dehydrogenase expression. Plant Biotechnology Journal, 2018, 16, 1034-1045.	8.3	41
36	The POTRA domains of Toc75 exhibit chaperone-like function to facilitate import into chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4868-E4876.	7.1	40

#	Article	IF	Citations
37	Mechanism of Dual Targeting of the Phytochrome Signaling Component HEMERA/pTAC12 to Plastids and the Nucleus. Plant Physiology, 2017, 173, 1953-1966.	4.8	36
38	Protein Translocation at the Envelope and Thylakoid Membranes of Chloroplasts. Journal of Biological Chemistry, 1996, 271, 31009-31012.	3.4	35
39	The Transit Sequence of Ferredoxin Contains Different Domains for Translocation across the Outer and Inner Membrane of the Chloroplast Envelope. Journal of Biological Chemistry, 2000, 275, 10265-10271.	3.4	35
40	Targeting and assembly of components of the TOC protein import complex at the chloroplast outer envelope membrane. Frontiers in Plant Science, 2014, 5, 269.	3.6	33
41	The integration of chloroplast protein targeting with plant developmental and stress responses. BMC Biology, 2017, 15, 118.	3.8	33
42	The role of GTP binding and hydrolysis at the atToc159 preprotein receptor during protein import into chloroplasts. Journal of Cell Biology, 2008, 183, 87-99.	5.2	32
43	Peroxisomal Protein Import. Cell, 2001, 105, 293-296.	28.9	31
44	A GTPase gate for protein import into chloroplasts. Nature Structural Biology, 2002, 9, 81-83.	9.7	29
45	Toc Receptor Dimerization Participates in the Initiation of Membrane Translocation during Protein Import into Chloroplasts. Journal of Biological Chemistry, 2009, 284, 31130-31141.	3.4	29
46	Genome and Transcriptome of Clostridium phytofermentans, Catalyst for the Direct Conversion of Plant Feedstocks to Fuels. PLoS ONE, 2015, 10, e0118285.	2.5	28
47	Targeting of a polytopic membrane protein to the inner envelope membrane of chloroplasts in vivo involves multiple transmembrane segments. Journal of Experimental Botany, 2014, 65, 5257-5265.	4.8	26
48	Molecular Topology of the Transit Peptide during Chloroplast Protein Import. Plant Cell, 2018, 30, 1789-1806.	6.6	26
49	Substrate binding disrupts dimerization and induces nucleotide exchange of the chloroplast GTPase Toc33. Biochemical Journal, 2011, 436, 313-319.	3.7	25
50	In Vitro Analysis of Chloroplast Protein Import. Current Protocols in Cell Biology, 2003, 17, Unit11.16.	2.3	24
51	The Signal Peptide Peptidase Is Required for Pollen Function in Arabidopsis. Plant Physiology, 2009, 149, 1289-1301.	4.8	24
52	Protein Import Motors in Chloroplasts: On the Role of Chaperones. Plant Cell, 2020, 32, 536-542.	6.6	21
53	Increased Cuticle Waxes by Overexpression of WSD1 Improves Osmotic Stress Tolerance in Arabidopsis thaliana and Camelina sativa. International Journal of Molecular Sciences, 2021, 22, 5173.	4.1	19
54	cDNA cloning and in vitro synthesis of the Dolichos biflorus seed lectin. FEBS Journal, 1987, 167, 227-231.	0.2	17

#	Article	IF	Citations
55	Arabidopsis ORANGE protein regulates plastid pre-protein import through interacting with Tic proteins. Journal of Experimental Botany, 2021, 72, 1059-1072.	4.8	17
56	The TOC GTPase Receptors: Regulators of the Fidelity, Specificity and Substrate Profiles of the General Protein Import Machinery of Chloroplasts. Protein Journal, 2019, 38, 343-350.	1.6	16
57	Relative toxicity of organic solvents to Aedes aegypti larvae. Journal of Invertebrate Pathology, 1983, 42, 285-287.	3.2	13
58	Exploring Camelina sativa lipid metabolism regulation by combining gene coâ€expression and <scp>DNA</scp> affinity purification analyses. Plant Journal, 2022, 110, 589-606.	5.7	13
59	Toxicity of cyclic peptide antibiotics to larvae of Aedes aegypti. Journal of Invertebrate Pathology, 1983, 42, 407-409.	3.2	12
60	Comparative transcriptome and metabolome analysis suggests bottlenecks that limit seed and oil yields in transgenic Camelina sativa expressing diacylglycerol acyltransferase 1 and glycerol-3-phosphate dehydrogenase. Biotechnology for Biofuels, 2018, 11, 335.	6.2	12
61	Toxicity of Bacillus thuringiensis var. israelensis Crystals to Aedes aegypti Larvae: Carbonate Reversal. Applied and Environmental Microbiology, 1983, 45, 1691-1693.	3.1	10
62	Functions and origins of the chloroplast protein-import machinery. Essays in Biochemistry, 2000, 36, 47-59.	4.7	9
63	CamRegBase: a gene regulation database for the biofuel crop, Camelina sativa. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	3.0	7
64	Exit route evolved into entry path in plants. Nature, 2018, 564, 45-46.	27.8	3
65	The Toc Machinery of the Protein Import Apparatus of Chloroplasts. The Enzymes, 2007, 25, 415-438.	1.7	2
66	Energetic Manipulation of Chloroplast Protein Import and the Use of Chemical Cross-Linkers to Map Proteinâ€“Protein Interactions. Methods in Molecular Biology, 2011, 774, 307-320.	0.9	2
67	Lipids Guide the Way: Targeting Proteins to the Chloroplast Outer Envelope Membrane. Developmental Cell, 2014, 30, 493-495.	7.0	0