

Masato Nakai

List of Publications by Year in descending order

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41
papers

2,647
citations

159585

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42
all docs

42
docs citations

42
times ranked

2378
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncovering the Protein Translocon at the Chloroplast Inner Envelope Membrane. <i>Science</i> , 2013, 339, 571-574.	12.6	300
2	Chloroplast Outer Envelope Protein CHUP1 Is Essential for Chloroplast Anchorage to the Plasma Membrane and Chloroplast Movement Å. <i>Plant Physiology</i> , 2008, 148, 829-842.	4.8	178
3	The Arabidopsis Chloroplastic NifU-Like Protein CnfU, Which Can Act as an Iron-Sulfur Cluster Scaffold Protein, Is Required for Biogenesis of Ferredoxin and Photosystem I[W]. <i>Plant Cell</i> , 2004, 16, 993-1007.	6.6	145
4	A Ycf2-FtsHi Heteromeric AAA-ATPase Complex Is Required for Chloroplast Protein Import. <i>Plant Cell</i> , 2018, 30, 2677-2703.	6.6	128
5	Thio-modification of Yeast Cytosolic tRNA Requires a Ubiquitin-related System That Resembles Bacterial Sulfur Transfer Systems. <i>Journal of Biological Chemistry</i> , 2008, 283, 27469-27476.	3.4	114
6	Yeast Nfs1p Is Involved in Thio-modification of Both Mitochondrial and Cytoplasmic tRNAs. <i>Journal of Biological Chemistry</i> , 2004, 279, 12363-12368.	3.4	110
7	A 1-Megadalton Translocation Complex Containing Tic20 and Tic21 Mediates Chloroplast Protein Import at the Inner Envelope Membrane. <i>Plant Cell</i> , 2009, 21, 1781-1797.	6.6	107
8	Transfer of Iron-Sulfur Cluster from NifU to Apoferrredoxin. <i>Journal of Biological Chemistry</i> , 2000, 275, 22615-22618.	3.4	101
9	Characterization of the Preprotein Translocon at the Outer Envelope Membrane of Chloroplasts by Blue Native PAGE. <i>Plant and Cell Physiology</i> , 2006, 47, 363-371.	3.1	101
10	The TIC complex uncovered: The alternative view on the molecular mechanism of protein translocation across the inner envelope membrane of chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 957-967.	1.0	94
11	Nuclear Localization of Yeast Nfs1p Is Required for Cell Survival. <i>Journal of Biological Chemistry</i> , 2001, 276, 8314-8320.	3.4	77
12	Involvement of a chloroplast homologue of the signal recognition particle receptor protein, FtsY, in protein targeting to thylakoids. <i>FEBS Letters</i> , 1999, 447, 329-333.	2.8	74
13	Maize Non-Photosynthetic Ferredoxin Precursor Is Mis-Sorted to the Intermembrane Space of Chloroplasts in the Presence of Light. <i>Plant Physiology</i> , 2001, 125, 2154-2163.	4.8	74
14	New Perspectives on Chloroplast Protein Import. <i>Plant and Cell Physiology</i> , 2018, 59, 1111-1119.	3.1	74
15	Maize Mutants Lacking Chloroplast FtsY Exhibit Pleiotropic Defects in the Biogenesis of Thylakoid Membranes[W]. <i>Plant Cell</i> , 2004, 16, 201-214.	6.6	69
16	Thio Modification of Yeast Cytosolic tRNA Is an Iron-Sulfur Protein-Dependent Pathway. <i>Molecular and Cellular Biology</i> , 2007, 27, 2841-2847.	2.3	66
17	Both Phototropin 1 and 2 Localize on the Chloroplast Outer Membrane with Distinct Localization Activity. <i>Plant and Cell Physiology</i> , 2013, 54, 80-92.	3.1	65
18	The Asymmetric IscA Homodimer with an Exposed [2Fe-2S] Cluster Suggests the Structural Basis of the Fe-S Cluster Biosynthetic Scaffold. <i>Journal of Molecular Biology</i> , 2006, 360, 117-132.	4.2	64

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19	YCF1: A Green TIC: Response to the de Vries et al. Commentary. <i>Plant Cell</i> , 2015, 27, 1834-1838.	6.6	53
20	Identification of yeast MAS17 encoding the functional counterpart of the mitochondrial receptor complex protein MOM22 of <i>Neurospora crassa</i> . <i>FEBS Letters</i> , 1995, 357, 202-206.	2.8	51
21	Non-identical contributions of two membrane-bound cpSRP components, cpFtsY and Alb3, to thylakoid biogenesis. <i>Plant Journal</i> , 2008, 56, 1007-1017.	5.7	47
22	Chloroplast Chaperonins: Evidence for Heterogeneous Assembly of $\hat{1}$ and $\hat{2}$ Cpn60 Polypeptides into a Chaperonin Oligomer. <i>Biochemical and Biophysical Research Communications</i> , 1999, 266, 584-587.	2.1	43
23	Isolation and characterization of the cDNA for pea chloroplast SecA Evolutionary conservation of the bacterial-type SecA-dependent protein transport within chloroplasts. <i>FEBS Letters</i> , 1995, 364, 305-308.	2.8	41
24	Identification of a novel prokaryotic HEAT-repeats-containing protein which interacts with a cyanobacterial IscA homolog. <i>FEBS Letters</i> , 2002, 519, 123-127.	2.8	40
25	<i>Arabidopsis</i> AtIscA-I is affected by deficiency of Fe-S cluster biosynthetic scaffold AtCnfU-V. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 1047-1052.	2.1	37
26	In Vivo Studies on the Roles of Two Closely Related <i>Arabidopsis</i> Tic20 Proteins, AtTic20-I and AtTic20-IV. <i>Plant and Cell Physiology</i> , 2011, 52, 469-478.	3.1	37
27	Cytochrome f Encoded by the Chloroplast Genome Is Imported into Thylakoids via the SecA-Dependent Pathway. <i>Biochemical and Biophysical Research Communications</i> , 1996, 224, 474-478.	2.1	35
28	The chloroplast-targeting domain of plastocyanin transit peptide can form a helical structure but does not have a high affinity for lipid bilayers. <i>FEBS Journal</i> , 1992, 207, 671-675.	0.2	33
29	<i>Arabidopsis</i> cytosolic Nbp35 homodimer can assemble both $[2Fe-2S]$ and $[4Fe-4S]$ clusters in two distinct domains. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 810-815.	2.1	33
30	Chloroplast Protein Import. Chloroplast Envelopes and Thylakoids have Different Abilities to Unfold Proteins. <i>FEBS Journal</i> , 1994, 225, 403-409.	0.2	31
31	Coexpressed subunits of dual genetic origin define a conserved supercomplex mediating essential protein import into chloroplasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32739-32749.	7.1	30
32	<i>Arabidopsis</i> Molybdopterin Biosynthesis Protein Cnx5 Collaborates with the Ubiquitin-like Protein Urm11 in the Thio-modification of tRNA. <i>Journal of Biological Chemistry</i> , 2012, 287, 30874-30884.	3.4	29
33	A HEAT-Repeats Containing Protein, IaiH, Stabilizes the Iron-Sulfur Cluster Bound to the Cyanobacterial IscA Homologue, IscA2. <i>Journal of Biochemistry</i> , 2003, 134, 211-217.	1.7	25
34	The N-terminal 21 amino acids of a 70 kDa protein of the yeast mitochondrial outer membrane direct E. coli β -galactosidase into the mitochondrial matrix space in yeast cells. <i>FEBS Letters</i> , 1986, 197, 199-203.	2.8	24
35	Structural Analysis of <i>Arabidopsis</i> CnfU Protein: An Iron-Sulfur Cluster Biosynthetic Scaffold in Chloroplasts. <i>Journal of Molecular Biology</i> , 2008, 381, 160-173.	4.2	22
36	cDNA sequence and overexpression of chloroplast chaperonin 21 from <i>Arabidopsis thaliana</i> . <i>BBA - Proteins and Proteomics</i> , 1999, 1429, 512-515.	2.1	18

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37	Sulfur Modifications of the Wobble U34 in tRNAs and their Intracellular Localization in Eukaryotic Cells. <i>Biomolecules</i> , 2017, 7, 17.	4.0	18
38	Reply: The Revised Model for Chloroplast Protein Import. <i>Plant Cell</i> , 2020, 32, 543-546.	6.6	17
39	Phototropin2 Contributes to the Chloroplast Avoidance Response at the Chloroplast-Plasma Membrane Interface. <i>Plant Physiology</i> , 2020, 183, 304-316.	4.8	17
40	tRNA Wobble Modification Affects Leaf Cell Development in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 2026-2039.	3.1	14
41	One- and Two-Dimensional Blue Native-PAGE and Immunodetection of Low-Abundance Chloroplast Membrane Protein Complexes. <i>Methods in Molecular Biology</i> , 2011, 775, 3-17.	0.9	11