

Nikolaus Pfanner

List of Publications by Year in descending order

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219
papers

31,305
citations

1536

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223
docs citations

223
times ranked

13504
citing authors

#	ARTICLE	IF	CITATIONS
1	Importing Mitochondrial Proteins: Machineries and Mechanisms. <i>Cell</i> , 2009, 138, 628-644.	28.9	1,199
2	The proteome of <i>Saccharomyces cerevisiae</i> mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13207-13212.	7.1	839
3	Requirement for hsp70 in the mitochondrial matrix for translocation and folding of precursor proteins. <i>Nature</i> , 1990, 348, 137-143.	27.8	760
4	Mitochondrial Machineries for Protein Import and Assembly. <i>Annual Review of Biochemistry</i> , 2017, 86, 685-714.	11.1	651
5	Mitochondrial protein import: from proteomics to functional mechanisms. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 655-667.	37.0	598
6	Mitochondrial proteins: from biogenesis to functional networks. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 267-284.	37.0	569
7	Tom40 forms the hydrophilic channel of the mitochondrial import pore for preproteins. <i>Nature</i> , 1998, 395, 516-521.	27.8	478
8	Versatility of the mitochondrial protein import machinery. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 339-349.	37.0	453
9	Global Analysis of the Mitochondrial N-Proteome Identifies a Processing Peptidase Critical for Protein Stability. <i>Cell</i> , 2009, 139, 428-439.	28.9	434
10	Essential role of Mia40 in import and assembly of mitochondrial intermembrane space proteins. <i>EMBO Journal</i> , 2004, 23, 3735-3746.	7.8	396
11	Dual Role of Mitofilin in Mitochondrial Membrane Organization and Protein Biogenesis. <i>Developmental Cell</i> , 2011, 21, 694-707.	7.0	361
12	Absence of Cardiolipin in the <i>crd1</i> Null Mutant Results in Decreased Mitochondrial Membrane Potential and Reduced Mitochondrial Function. <i>Journal of Biological Chemistry</i> , 2000, 275, 22387-22394.	3.4	350
13	Definition of a High-Confidence Mitochondrial Proteome at Quantitative Scale. <i>Cell Reports</i> , 2017, 19, 2836-2852.	6.4	346
14	Machinery for protein sorting and assembly in the mitochondrial outer membrane. <i>Nature</i> , 2003, 424, 565-571.	27.8	344
15	Toward the Complete Yeast Mitochondrial Proteome: A Multidimensional Separation Techniques for Mitochondrial Proteomics. <i>Journal of Proteome Research</i> , 2006, 5, 1543-1554.	3.7	341
16	Role of an energized inner membrane in mitochondrial protein import. Delta psi drives the movement of presequences. <i>Journal of Biological Chemistry</i> , 1991, 266, 18051-18057.	3.4	329
17	Mitochondrial protein import: Nucleoside triphosphates are involved in conferring import-competence to precursors. <i>Cell</i> , 1987, 49, 815-823.	28.9	323
18	The Protein Import Machinery of Mitochondria is a Regulatory Hub in Metabolism, Stress, and Disease. <i>Cell Metabolism</i> , 2014, 19, 357-372.	16.2	316

#	ARTICLE	IF	CITATIONS
19	Mitochondrial Presequence Translocase: Switching between TOM Tethering and Motor Recruitment Involves Tim21 and Tim17. <i>Cell</i> , 2005, 120, 817-829.	28.9	315
20	Mitochondrial import and the twin-pore translocase. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 519-530.	37.0	312
21	A mitochondrial import receptor for the ADP/ATP carrier. <i>Cell</i> , 1990, 62, 107-115.	28.9	308
22	The Protein Import Machinery of Mitochondria. <i>Journal of Biological Chemistry</i> , 2004, 279, 14473-14476.	3.4	294
23	A presequence- and voltage-sensitive channel of the mitochondrial preprotein translocase formed by Tim23. <i>Nature Structural Biology</i> , 2001, 8, 1074-1082.	9.7	287
24	An Essential Role of Sam50 in the Protein Sorting and Assembly Machinery of the Mitochondrial Outer Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 48520-48523.	3.4	286
25	Multiple pathways for sorting mitochondrial precursor proteins. <i>EMBO Reports</i> , 2008, 9, 42-49.	4.5	282
26	Dissecting Membrane Insertion of Mitochondrial β -Barrel Proteins. <i>Cell</i> , 2008, 132, 1011-1024.	28.9	276
27	Role of an energized inner membrane in mitochondrial protein import. Delta psi drives the movement of presequences. <i>Journal of Biological Chemistry</i> , 1991, 266, 18051-7.	3.4	273
28	Protein Insertion into the Mitochondrial Inner Membrane by a Twin-Pore Translocase. <i>Science</i> , 2003, 299, 1747-1751.	12.6	272
29	Identification of a mitochondrial receptor complex required for recognition and membrane insertion of precursor proteins. <i>Nature</i> , 1990, 348, 610-616.	27.8	271
30	Tom22 is a multifunctional organizer of the mitochondrial preprotein translocase. <i>Nature</i> , 1999, 401, 485-489.	27.8	269
31	The Tim core complex defines the number of mitochondrial translocation contact sites and can hold arrested preproteins in the absence of matrix Hsp70-Tim44. <i>EMBO Journal</i> , 1997, 16, 5408-5419.	7.8	268
32	Tom5 functionally links mitochondrial preprotein receptors to the general import pore. <i>Nature</i> , 1997, 388, 195-200.	27.8	267
33	The Mitochondrial Morphology Protein Mdm10 Functions in Assembly of the Preprotein Translocase of the Outer Membrane. <i>Developmental Cell</i> , 2004, 7, 61-71.	7.0	249
34	The Mitochondrial Presequence Translocase. <i>Cell</i> , 2002, 111, 507-518.	28.9	241
35	Mitochondrial protein import: biochemical and genetic evidence for interaction of matrix hsp70 and the inner membrane protein MIM44. <i>Journal of Cell Biology</i> , 1994, 127, 1547-1556.	5.2	238
36	Differential Recognition of Preproteins by the Purified Cytosolic Domains of the Mitochondrial Import Receptors Tom20, Tom22, and Tom70. <i>Journal of Biological Chemistry</i> , 1997, 272, 20730-20735.	3.4	231

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37	Preprotein Translocase of the Outer Mitochondrial Membrane: Molecular Dissection and Assembly of the General Import Pore Complex. <i>Molecular and Cellular Biology</i> , 1998, 18, 6515-6524.	2.3	231
38	The Protein Import Motor of Mitochondria. <i>Cell</i> , 1999, 97, 565-574.	28.9	231
39	Distinct steps in the import of ADP/ATP carrier into mitochondria.. <i>Journal of Biological Chemistry</i> , 1987, 262, 7528-7536.	3.4	230
40	Uniform nomenclature for the mitochondrial contact site and cristae organizing system. <i>Journal of Cell Biology</i> , 2014, 204, 1083-1086.	5.2	219
41	Regulation of Mitochondrial Protein Import by Cytosolic Kinases. <i>Cell</i> , 2011, 144, 227-239.	28.9	218
42	The three modules of ADP/ATP carrier cooperate in receptor recruitment and translocation into mitochondria. <i>EMBO Journal</i> , 2001, 20, 951-960.	7.8	213
43	Distribution of Binding Sequences for the Mitochondrial Import Receptors Tom20, Tom22, and Tom70 in a Presequence-carrying Preprotein and a Non-cleavable Preprotein. <i>Journal of Biological Chemistry</i> , 1999, 274, 16522-16530.	3.4	208
44	Isolation of Yeast Mitochondria. , 2006, 313, 033-040.		205
45	Essential role of Isd11 in mitochondrial iron-sulfur cluster synthesis on Isu scaffold proteins. <i>EMBO Journal</i> , 2006, 25, 184-195.	7.8	204
46	Mitochondrial Cardiolipin Involved in Outer-Membrane Protein Biogenesis: Implications for Barth Syndrome. <i>Current Biology</i> , 2009, 19, 2133-2139.	3.9	204
47	The mitochondrial receptor complex: A central role of MOM22 in mediating preprotein transfer from receptors to the general insertion pore. <i>Cell</i> , 1993, 74, 483-492.	28.9	199
48	Mechanisms of Protein Import into Mitochondria. <i>Current Biology</i> , 2003, 13, R326-R337.	3.9	198
49	Mapping of the protein import machinery in the mitochondrial outer membrane by crosslinking of translocation intermediates. <i>Nature</i> , 1992, 355, 84-87.	27.8	196
50	Assembling the mitochondrial outer membrane. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1044-1048.	8.2	196
51	Import of ADP/ATP carrier into mitochondria: two receptors act in parallel.. <i>Journal of Cell Biology</i> , 1990, 111, 2353-2363.	5.2	194
52	Proteomic Analysis of the Yeast Mitochondrial Outer Membrane Reveals Accumulation of a Subclass of Preproteins. <i>Molecular Biology of the Cell</i> , 2006, 17, 1436-1450.	2.1	192
53	A J-protein is an essential subunit of the presequence translocase-associated protein import motor of mitochondria. <i>Journal of Cell Biology</i> , 2003, 163, 707-713.	5.2	191
54	Pam16 has an essential role in the mitochondrial protein import motor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 226-233.	8.2	189

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55	Distinct steps in the import of ADP/ATP carrier into mitochondria. <i>Journal of Biological Chemistry</i> , 1987, 262, 7528-36.	3.4	186
56	Multistep assembly of the protein import channel of the mitochondrial outer membrane. <i>Nature Structural Biology</i> , 2001, 8, 361-370.	9.7	184
57	Phosphatidylethanolamine and Cardiolipin Differentially Affect the Stability of Mitochondrial Respiratory Chain Supercomplexes. <i>Journal of Molecular Biology</i> , 2012, 423, 677-686.	4.2	183
58	Molecular architecture of the active mitochondrial protein gate. <i>Science</i> , 2015, 349, 1544-1548.	12.6	169
59	Tim50 Maintains the Permeability Barrier of the Mitochondrial Inner Membrane. <i>Science</i> , 2006, 312, 1523-1526.	12.6	166
60	Polypeptides traverse the mitochondrial envelope in an extended state. <i>FEBS Letters</i> , 1990, 275, 190-194.	2.8	164
61	Functional Staging of ADP/ATP Carrier Translocation across the Outer Mitochondrial Membrane. <i>Journal of Biological Chemistry</i> , 1999, 274, 20619-20627.	3.4	162
62	Protein unfolding by mitochondria. <i>EMBO Reports</i> , 2000, 1, 404-410.	4.5	160
63	Biogenesis of the Protein Import Channel Tom40 of the Mitochondrial Outer Membrane. <i>Journal of Biological Chemistry</i> , 2004, 279, 18188-18194.	3.4	158
64	A Role for Tim21 in Membrane-Potential-Dependent Preprotein Sorting in Mitochondria. <i>Current Biology</i> , 2006, 16, 2271-2276.	3.9	158
65	Presequence and mature part of preproteins strongly influence the dependence of mitochondrial protein import on heat shock protein 70 in the matrix.. <i>Journal of Cell Biology</i> , 1993, 123, 119-126.	5.2	156
66	Tom7 modulates the dynamics of the mitochondrial outer membrane translocase and plays a pathway-related role in protein import.. <i>EMBO Journal</i> , 1996, 15, 2125-2137.	7.8	154
67	Protein Import Channel of the Outer Mitochondrial Membrane: a Highly Stable Tom40-Tom22 Core Structure Differentially Interacts with Preproteins, Small Tom Proteins, and Import Receptors. <i>Molecular and Cellular Biology</i> , 2001, 21, 2337-2348.	2.3	154
68	Biogenesis of Porin of the Outer Mitochondrial Membrane Involves an Import Pathway via Receptors and the General Import Pore of the Tom Complex. <i>Journal of Cell Biology</i> , 2001, 152, 289-300.	5.2	151
69	Tim22, the Essential Core of the Mitochondrial Protein Insertion Complex, Forms a Voltage-Activated and Signal-Gated Channel. <i>Molecular Cell</i> , 2002, 9, 363-373.	9.7	150
70	Motor-free mitochondrial presequence translocase drives membrane integration of preproteins. <i>Nature Cell Biology</i> , 2007, 9, 1152-1159.	10.3	149
71	Cyclophilin 20 Is Involved in Mitochondrial Protein Folding in Cooperation with Molecular Chaperones Hsp70 and Hsp60. <i>Molecular and Cellular Biology</i> , 1995, 15, 2654-2662.	2.3	147
72	The morphology proteins Mdm12/Mmm1 function in the major β -barrel assembly pathway of mitochondria. <i>EMBO Journal</i> , 2007, 26, 2229-2239.	7.8	146

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73	Structure of the mitochondrial import gate reveals distinct preprotein paths. <i>Nature</i> , 2019, 575, 395-401.	27.8	146
74	Purification of <i>Saccharomyces cerevisiae</i> Mitochondria Devoid of Microsomal and Cytosolic Contaminations. <i>Analytical Biochemistry</i> , 2000, 287, 339-342.	2.4	143
75	Mitochondrial contact site and cristae organizing system. <i>Current Opinion in Cell Biology</i> , 2016, 41, 33-42.	5.4	143
76	Profiling Phosphoproteins of Yeast Mitochondria Reveals a Role of Phosphorylation in Assembly of the ATP Synthase. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1896-1906.	3.8	142
77	Mitochondrial translocation contact sites: separation of dynamic and stabilizing elements in formation of a TOM-TIM-preprotein supercomplex. <i>EMBO Journal</i> , 2003, 22, 5370-5381.	7.8	141
78	Novel Mitochondrial Intermembrane Space Proteins as Substrates of the MIA Import Pathway. <i>Journal of Molecular Biology</i> , 2007, 365, 612-620.	4.2	140
79	The Essential Mitochondrial Protein Erv1 Cooperates with Mia40 in Biogenesis of Intermembrane Space Proteins. <i>Journal of Molecular Biology</i> , 2005, 353, 485-492.	4.2	137
80	Role of the mitochondrial contact site and cristae organizing system in membrane architecture and dynamics. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 737-746.	4.1	136
81	Role of MINOS in mitochondrial membrane architecture and biogenesis. <i>Trends in Cell Biology</i> , 2012, 22, 185-192.	7.9	135
82	The Intermembrane Space Domain of Mitochondrial Tom22 Functions as a <i>trans</i> Binding Site for Preproteins with N-Terminal Targeting Sequences. <i>Molecular and Cellular Biology</i> , 1997, 17, 6574-6584.	2.3	132
83	Uniform nomenclature for the protein transport machinery of the mitochondrial membranes. <i>Trends in Biochemical Sciences</i> , 1996, 21, 51-52.	7.5	130
84	MOF Acetyl Transferase Regulates Transcription and Respiration in Mitochondria. <i>Cell</i> , 2016, 167, 722-738.e23.	28.9	130
85	The Mitochondrial Proteome: From Inventory to Function. <i>Cell</i> , 2008, 134, 22-24.	28.9	129
86	Mitochondrial protein import: from transport pathways to an integrated network. <i>Trends in Biochemical Sciences</i> , 2012, 37, 85-91.	7.5	129
87	Cell cycle-dependent regulation of mitochondrial preprotein translocase. <i>Science</i> , 2014, 346, 1109-1113.	12.6	128
88	Biogenesis of the Mitochondrial TOM Complex. <i>Journal of Biological Chemistry</i> , 2008, 283, 120-127.	3.4	125
89	Targeting of the master receptor MOM19 to mitochondria. <i>Science</i> , 1991, 254, 1659-1662.	12.6	124
90	Chapter 11 Assaying protein import into mitochondria. <i>Methods in Cell Biology</i> , 2001, 65, 189-215.	1.1	123

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91	Protein translocase of the outer mitochondrial membrane: role of import receptors in the structural organization of the TOM complex. <i>Journal of Molecular Biology</i> , 2002, 316, 657-666.	4.2	123
92	Membrane Potential-Driven Protein Import into Mitochondria. <i>Molecular Biology of the Cell</i> , 2000, 11, 3977-3991.	2.1	122
93	Dual Function of Sdh3 in the Respiratory Chain and TIM22 Protein Translocase of the Mitochondrial Inner Membrane. <i>Molecular Cell</i> , 2011, 44, 811-818.	9.7	121
94	Sam35 of the Mitochondrial Protein Sorting and Assembly Machinery Is a Peripheral Outer Membrane Protein Essential for Cell Viability. <i>Journal of Biological Chemistry</i> , 2004, 279, 22781-22785.	3.4	120
95	Central Role of Mic10 in the Mitochondrial Contact Site and Cristae Organizing System. <i>Cell Metabolism</i> , 2015, 21, 747-755.	16.2	120
96	Biogenesis of Tim Proteins of the Mitochondrial Carrier Import Pathway: Differential Targeting Mechanisms and Crossing Over with the Main Import Pathway. <i>Molecular Biology of the Cell</i> , 1999, 10, 2461-2474.	2.1	119
97	Protein folding causes an arrest of preprotein translocation into mitochondria in vivo.. <i>Journal of Cell Biology</i> , 1991, 115, 1601-1609.	5.2	117
98	Identification of MIM23, a putative component of the protein import machinery of the mitochondrial inner membrane. <i>FEBS Letters</i> , 1993, 330, 66-70.	2.8	117
99	The mitochondrial import protein Mim1 promotes biogenesis of multispinning outer membrane proteins. <i>Journal of Cell Biology</i> , 2011, 194, 387-395.	5.2	117
100	Deletion of the receptor MOM19 strongly impairs import of cleavable preproteins into <i>Saccharomyces cerevisiae</i> mitochondria.. <i>Journal of Biological Chemistry</i> , 1994, 269, 9045-9051.	3.4	117
101	Coupling of Mitochondrial Import and Export Translocases by Receptor-Mediated Supercomplex Formation. <i>Cell</i> , 2013, 154, 596-608.	28.9	115
102	The Mitochondrial Receptor Complex: the Small Subunit Mom8b/Isp6 Supports Association of Receptors with the General Insertion Pore and Transfer of Preproteins. <i>Molecular and Cellular Biology</i> , 1995, 15, 6196-6205.	2.3	114
103	The essential yeast protein MIM44 (encoded by MPI1) is involved in an early step of preprotein translocation across the mitochondrial inner membrane.. <i>Molecular and Cellular Biology</i> , 1993, 13, 7364-7371.	2.3	113
104	The translocator maintenance protein Tam41 is required for mitochondrial cardiolipin biosynthesis. <i>Journal of Cell Biology</i> , 2008, 183, 1213-1221.	5.2	113
105	Quantitative high-confidence human mitochondrial proteome and its dynamics in cellular context. <i>Cell Metabolism</i> , 2021, 33, 2464-2483.e18.	16.2	113
106	Role of MINOS in Mitochondrial Membrane Architecture: Cristae Morphology and Outer Membrane Interactions Differentially Depend on Mitofilin Domains. <i>Journal of Molecular Biology</i> , 2012, 422, 183-191.	4.2	112
107	Differential requirement for the mitochondrial Hsp70-Tim44 complex in unfolding and translocation of preproteins.. <i>EMBO Journal</i> , 1996, 15, 2668-2677.	7.8	111
108	Mitofilin complexes: conserved organizers of mitochondrial membrane architecture. <i>Biological Chemistry</i> , 2012, 393, 1247-1261.	2.5	111

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109	Membrane protein insertion through a mitochondrial β -barrel gate. <i>Science</i> , 2018, 359, .	12.6	111
110	The Presequence Translocase-associated Protein Import Motor of Mitochondria. <i>Journal of Biological Chemistry</i> , 2004, 279, 38047-38054.	3.4	109
111	Role of mitochondrial inner membrane organizing system in protein biogenesis of the mitochondrial outer membrane. <i>Molecular Biology of the Cell</i> , 2012, 23, 3948-3956.	2.1	108
112	Mitochondrial protein turnover: role of the precursor intermediate peptidase Oct1 in protein stabilization. <i>Molecular Biology of the Cell</i> , 2011, 22, 2135-2143.	2.1	107
113	Deletion of the receptor MOM19 strongly impairs import of cleavable preproteins into <i>Saccharomyces cerevisiae</i> mitochondria. <i>Journal of Biological Chemistry</i> , 1994, 269, 9045-51.	3.4	107
114	Mitochondrial GrpE is present in a complex with hsp70 and preproteins in transit across membranes.. <i>Molecular and Cellular Biology</i> , 1994, 14, 6627-6634.	2.3	105
115	Pam17 Is Required for Architecture and Translocation Activity of the Mitochondrial Protein Import Motor. <i>Molecular and Cellular Biology</i> , 2005, 25, 7449-7458.	2.3	104
116	Alternative function for the mitochondrial SAM complex in biogenesis of α -helical TOM proteins. <i>Journal of Cell Biology</i> , 2007, 179, 881-893.	5.2	104
117	Mitochondrial Import of the ADP/ATP Carrier: the Essential TIM Complex of the Intermembrane Space Is Required for Precursor Release from the TOM Complex. <i>Molecular and Cellular Biology</i> , 2002, 22, 7780-7789.	2.3	97
118	Sorting switch of mitochondrial presequence translocase involves coupling of motor module to respiratory chain. <i>Journal of Cell Biology</i> , 2007, 179, 1115-1122.	5.2	95
119	Mitochondrial protein import: two membranes, three translocases. <i>Current Opinion in Cell Biology</i> , 2002, 14, 400-411.	5.4	93
120	Identification of the essential yeast protein MIM17, an integral mitochondrial inner membrane protein involved in protein import. <i>FEBS Letters</i> , 1994, 349, 215-221.	2.8	92
121	Distinct Forms of Mitochondrial TOM-TIM Supercomplexes Define Signal-Dependent States of Preprotein Sorting. <i>Molecular and Cellular Biology</i> , 2010, 30, 307-318.	2.3	92
122	Mitochondrial Protein Sorting. <i>Journal of Biological Chemistry</i> , 2006, 281, 22819-22826.	3.4	90
123	Mitochondrial preproteins en route from the outer membrane to the inner membrane are exposed to the intermembrane space. <i>FEBS Letters</i> , 1991, 293, 85-88.	2.8	89
124	The mitochondrial import receptor Tom70: identification of a 25 kda core domain with a specific binding site for preproteins 1 1Edited by M. Yaniv. <i>Journal of Molecular Biology</i> , 2000, 303, 479-488.	4.2	89
125	Preprotein Translocase of the Outer Mitochondrial Membrane: Reconstituted Tom40 Forms a Characteristic TOM Pore. <i>Journal of Molecular Biology</i> , 2005, 353, 1011-1020.	4.2	89
126	Two Modular Forms of the Mitochondrial Sorting and Assembly Machinery Are Involved in Biogenesis of α -Helical Outer Membrane Proteins. <i>Journal of Molecular Biology</i> , 2010, 396, 540-549.	4.2	89

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127	Mitochondrial precursor proteins are imported through a hydrophilic membrane environment. <i>FEBS Journal</i> , 1987, 169, 289-293.	0.2	86
128	Import of Proteins into Mitochondria. <i>Methods in Cell Biology</i> , 2007, 80, 783-806.	1.1	86
129	Glucose-Induced Regulation of Protein Import Receptor Tom22 by Cytosolic and Mitochondria-Bound Kinases. <i>Cell Metabolism</i> , 2013, 18, 578-587.	16.2	84
130	Regulated membrane remodeling by Mic60 controls formation of mitochondrial crista junctions. <i>Nature Communications</i> , 2017, 8, 15258.	12.8	84
131	Insertion of Hydrophobic Membrane Proteins into the Inner Mitochondrial Membrane—A Guided Tour. <i>Journal of Molecular Biology</i> , 2003, 326, 639-657.	4.2	83
132	Shaping the mitochondrial inner membrane in health and disease. <i>Journal of Internal Medicine</i> , 2020, 287, 645-664.	6.0	83
133	Mitochondrial protein import: precursor oxidation in a ternary complex with disulfide carrier and sulfhydryl oxidase. <i>Journal of Cell Biology</i> , 2008, 183, 195-202.	5.2	82
134	Biogenesis of Mitochondria: Dual Role of Tom7 in Modulating Assembly of the Preprotein Translocase of the Outer Membrane. <i>Journal of Molecular Biology</i> , 2011, 405, 113-124.	4.2	82
135	Mgr2 promotes coupling of the mitochondrial presequence translocase to partner complexes. <i>Journal of Cell Biology</i> , 2012, 197, 595-604.	5.2	79
136	A dynamic machinery for import of mitochondrial precursor proteins. <i>FEBS Letters</i> , 2007, 581, 2802-2810.	2.8	78
137	Precursor Oxidation by Mia40 and Erv1 Promotes Vectorial Transport of Proteins into the Mitochondrial Intermembrane Space. <i>Molecular Biology of the Cell</i> , 2008, 19, 226-236.	2.1	78
138	The mitochondrial Hsp70-dependent import system actively unfolds preproteins and shortens the lag phase of translocation. <i>EMBO Journal</i> , 2001, 20, 941-950.	7.8	76
139	Insertion of MOM22 into the mitochondrial outer membrane strictly depends on surface receptors. <i>FEBS Letters</i> , 1993, 321, 197-200.	2.8	75
140	Mitochondrial Import of Subunit Va of Cytochrome c Oxidase Characterized with Yeast Mutants. <i>Journal of Biological Chemistry</i> , 1995, 270, 3788-3795.	3.4	75
141	Cooperation of Stop-Transfer and Conservative Sorting Mechanisms in Mitochondrial Protein Transport. <i>Current Biology</i> , 2010, 20, 1227-1232.	3.9	75
142	Sam37 is crucial for formation of the mitochondrial TOM—SAM supercomplex, thereby promoting β -barrel biogenesis. <i>Journal of Cell Biology</i> , 2015, 210, 1047-1054.	5.2	75
143	Biogenesis of the Essential Tim9—Tim10 Chaperone Complex of Mitochondria. <i>Journal of Biological Chemistry</i> , 2007, 282, 22472-22480.	3.4	74
144	Biogenesis of the preprotein translocase of the outer mitochondrial membrane: protein kinase A phosphorylates the precursor of Tom40 and impairs its import. <i>Molecular Biology of the Cell</i> , 2012, 23, 1618-1627.	2.1	74

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145	Separating mitochondrial protein assembly and endoplasmic reticulum tethering by selective coupling of Mdm10. <i>Nature Communications</i> , 2016, 7, 13021.	12.8	74
146	The polytopic mitochondrial inner membrane proteins MIM17 and MIM23 operate at the same preprotein import site. <i>FEBS Letters</i> , 1994, 349, 222-228.	2.8	73
147	Mgr2 Functions as Lateral Gatekeeper for Preprotein Sorting in the Mitochondrial Inner Membrane. <i>Molecular Cell</i> , 2014, 56, 641-652.	9.7	73
148	Mitochondrial Import Driving Forces: Enhanced Trapping by Matrix Hsp70 Stimulates Translocation and Reduces the Membrane Potential Dependence of Loosely Folded Preproteins. <i>Molecular and Cellular Biology</i> , 2001, 21, 7097-7104.	2.3	68
149	Recruitment of Cytosolic J-Proteins by TOM Receptors Promotes Mitochondrial Protein Biogenesis. <i>Cell Reports</i> , 2018, 25, 2036-2043.e5.	6.4	68
150	Inactivation of the Mitochondrial Heat Shock Protein Zim17 Leads to Aggregation of Matrix Hsp70s Followed by Pleiotropic Effects on Morphology and Protein Biogenesis. <i>Journal of Molecular Biology</i> , 2005, 351, 206-218.	4.2	63
151	The Mitochondrial Import Complex MIM Functions as Main Translocase for α -Helical Outer Membrane Proteins. <i>Cell Reports</i> , 2020, 31, 107567.	6.4	61
152	The Tim21 binding domain connects the preprotein translocases of both mitochondrial membranes. <i>EMBO Reports</i> , 2006, 7, 1233-1238.	4.5	60
153	Mitochondrial Protein Import Motor: Differential Role of Tim44 in the Recruitment of Pam17 and J-Complex to the Presequence Translocase. <i>Molecular Biology of the Cell</i> , 2008, 19, 2642-2649.	2.1	60
154	Mitochondrial OXA Translocase Plays a Major Role in Biogenesis of Inner-Membrane Proteins. <i>Cell Metabolism</i> , 2016, 23, 901-908.	16.2	60
155	Mitochondrial sorting and assembly machinery operates by β -barrel switching. <i>Nature</i> , 2021, 590, 163-169.	27.8	60
156	Biogenesis of mitochondrial membrane proteins. <i>Current Opinion in Cell Biology</i> , 2009, 21, 484-493.	5.4	59
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