Marc Fransen

List of Publications by Year
in descending order

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91 papers	9,064 citations	66343 42 h-index	51608 86 g-index
93 all docs	93 docs citations	93 times ranked	14022 citing authors

#	Article	IF	Citations
1	Peroxisome-Derived Hydrogen Peroxide Modulates the Sulfenylation Profiles of Key Redox Signaling Proteins in Flp-In T-REx 293 Cells. Frontiers in Cell and Developmental Biology, 2022, 10, 888873.	3.7	6
2	Synchronized, Spontaneous, and Oscillatory Detachment of Eukaryotic Cells: A New Tool for Cell Characterization and Identification. Advanced Science, 2022, 9, .	11.2	4
3	Therapeutic concentrations of calcineurin inhibitors do not deregulate glutathione redox balance in human renal proximal tubule cells. PLoS ONE, 2021, 16, e0250996.	2.5	8
4	The Peroxisome-Autophagy Redox Connection: A Double-Edged Sword?. Frontiers in Cell and Developmental Biology, 2021, 9, 814047.	3.7	7
5	Mitochondrial fission factor (MFF) is a critical regulator of peroxisome maturation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118709.	4.1	26
6	Slc25a17 Gene Trapped Mice: PMP34 Plays a Role in the Peroxisomal Degradation of Phytanic and Pristanic Acid. Frontiers in Cell and Developmental Biology, 2020, 8, 144.	3.7	17
7	Peroxisomal Dysfunction and Oxidative Stress in Neurodegenerative Disease: A Bidirectional Crosstalk. Advances in Experimental Medicine and Biology, 2020, 1299, 19-30.	1.6	7
8	Peroxisomal Hydrogen Peroxide Metabolism and Signaling in Health and Disease. International Journal of Molecular Sciences, 2019, 20, 3673.	4.1	121
9	Deciphering the potential involvement of PXMP2 and PEX11B in hydrogen peroxide permeation across the peroxisomal membrane reveals a role for PEX11B in protein sorting. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 182991.	2.6	25
10	Functional peroxisomes are required for Î²-cell integrity in mice. Molecular Metabolism, 2019, 22, 71-83.	6.5	27
11	Differential distribution of peroxisomal proteins points to specific roles of peroxisomes in the murine retina. Molecular and Cellular Biochemistry, 2019, 456, 53-62.	3.1	20
12	Membrane topologies of <scp>PEX</scp>13 and <scp>PEX</scp>14 provide new insights on the mechanism of protein import into peroxisomes. FEBS Journal, 2019, 286, 205-222.	4.7	36
13	Redox Signaling from and to Peroxisomes: Progress, Challenges, and Prospects. Antioxidants and Redox Signaling, 2019, 30, 95-112.	5.4	51
14	Peroxisomes as Modulators of Cellular Protein Thiol Oxidation: A New Model System. Antioxidants and Redox Signaling, 2019, 30, 22-39.	5.4	30
15	Peroxisomes and Cellular Oxidant/Antioxidant Balance: Protein Redox Modifications and Impact on Inter-organelle Communication. Sub-Cellular Biochemistry, 2018, 89, 435-461.	2.4	14
16	Quantitative Monitoring of Subcellular Redox Dynamics in Living Mammalian Cells Using RoGFP2-Based Probes. Methods in Molecular Biology, 2017, 1595, 151-164.	0.9	15
17	The peroxisomal import receptor PEX5 functions as a stress sensor, retaining catalase in the cytosol in times of oxidative stress. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1833-1843.	4.1	58
18	The Peroxisome-Mitochondria Connection: How and Why?. International Journal of Molecular Sciences, 2017, 18, 1126.	4.1	261

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19	KillerRed as a Tool to Study the Cellular Responses to Peroxisome-Derived Oxidative Stress. Methods in Molecular Biology, 2017, 1595, 165-179.	0.9	1
20	Peroxisome biogenesis in mammalian cells: The impact of genes and environment. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1049-1060.	4.1	28
21	The peroxisomal protein import machinery displays a preference for monomeric substrates. Open Biology, 2015, 5, 140236.	3.6	30
22	Redox interplay between mitochondria and peroxisomes. Frontiers in Cell and Developmental Biology, 2015, 3, 35.	3.7	174
23	Export-deficient monoubiquitinated PEX5 triggers peroxisome removal in SV40 large T antigen-transformed mouse embryonic fibroblasts. Autophagy, 2015, 11, 1326-1340.	9.1	79
24	Antioxidant cytoprotection by peroxisomal peroxiredoxin-5. Free Radical Biology and Medicine, 2015, 84, 215-226.	2.9	53
25	Mitochondria in peroxisome-deficient hepatocytes exhibit impaired respiration, depleted DNA, and PGC-1Î± independent proliferation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 285-298.	4.1	65
26	<scp>PEX5</scp>, the Shuttling Import Receptor for Peroxisomal Matrix Proteins, Is a Redoxâ€Sensitive Protein. Traffic, 2014, 15, 94-103.	2.7	67
27	A PEX7-Centered Perspective on the Peroxisomal Targeting Signal Type 2-Mediated Protein Import Pathway. Molecular and Cellular Biology, 2014, 34, 2917-2928.	2.3	34
28	Peroxisomal metabolism and oxidative stress. Biochimie, 2014, 98, 56-62.	2.6	147
29	A cost-effective approach to microporate mammalian cells with the Neon Transfection System. Analytical Biochemistry, 2014, 466, 49-50.	2.4	34
30	HaloTag as a Tool to Investigate Peroxisome Dynamics in Cultured Mammalian Cells. Methods in Molecular Biology, 2014, 1174, 157-170.	0.9	8
31	Dissecting Peroxisome-Mediated Signaling Pathways: A New and Exciting Research Field. , 2014, , 255-273.		8
32	Aging, Age-Related Diseases and Peroxisomes. Sub-Cellular Biochemistry, 2013, 69, 45-65.	2.4	71
33	Mitochondria are targets for peroxisome-derived oxidative stress in cultured mammalian cells. Free Radical Biology and Medicine, 2013, 65, 882-894.	2.9	126
34	Peroxisome degradation in mammals: mechanisms of action, recent advances, and perspectives. Frontiers in Physiology, 2013, 4, 145.	2.8	59
35	Cyclophilin D: a therapeutic target to counteract reactive oxygen species-mediated damage in neurodegenerative disease?. Brain, 2012, 135, 3525-3526.	7.6	5
36	Identification of Ubiquitin-specific Protease 9X (USP9X) as a Deubiquitinase Acting on Ubiquitin-Peroxin 5 (PEX5) Thioester Conjugate. Journal of Biological Chemistry, 2012, 287, 12815-12827.	3.4	87

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37	Peroxisome Dynamics: Molecular Players, Mechanisms, and (Dys)functions. , 2012, 2012, 1-24.		26
38	Role of peroxisomes in ROS/RNS-metabolism: Implications for human disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1363-1373.	3.8	494
39	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
40	Potential limitations in the use of KillerRed for fluorescence microscopy. Journal of Microscopy, 2012, 245, 229-235.	1.8	18
41	PEX5 Protein Binds Monomeric Catalase Blocking Its Tetramerization and Releases It upon Binding the N-terminal Domain of PEX14. Journal of Biological Chemistry, 2011, 286, 40509-40519.	3.4	81
42	Intraperoxisomal redox balance in mammalian cells: oxidative stress and interorganellar cross-talk. Molecular Biology of the Cell, 2011, 22, 1440-1451.	2.1	175
43	Peroxisomes in zebrafish: distribution pattern and knockdown studies. Histochemistry and Cell Biology, 2010, 134, 39-51.	1.7	14
44	Pex11pÎ²-mediated growth and division of mammalian peroxisomes follows a maturation pathway. Journal of Cell Science, 2010, 123, 2750-2762.	2.0	86
45	Peroxisomes Are Signaling Platforms for Antiviral Innate Immunity. Cell, 2010, 141, 668-681.	28.9	717
46	Properties of the Ubiquitin-Pex5p Thiol Ester Conjugate. Journal of Biological Chemistry, 2009, 284, 10504-10513.	3.4	80
47	Mapping the Cargo Protein Membrane Translocation Step into the PEX5 Cycling Pathway. Journal of Biological Chemistry, 2009, 284, 27243-27251.	3.4	44
48	The cytosolic domain of PEX3, a protein involved in the biogenesis of peroxisomes, binds membrane lipids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1669-1675.	4.1	22
49	Small G proteins in peroxisome biogenesis: the potential involvement of ADP-ribosylation factor 6. BMC Cell Biology, 2009, 10, 58.	3.0	16
50	Peroxisome Dynamics in Cultured Mammalian Cells. Traffic, 2009, 10, 1722-1733.	2.7	160
51	Identification of a novel PEX14 mutation in Zellweger syndrome. BMJ Case Reports, 2009, 2009, bcr0720080503-bcr0720080503.	0.5	3
52	Comparison of the PTS1- and Rab8b-binding properties of Pex5p and Pex5Rp/TRIP8b. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 864-873.	4.1	25
53	Identification of a novel PEX14 mutation in Zellweger syndrome. Journal of Medical Genetics, 2008, 45, 376-383.	3.2	22
54	Ubiquitination of Mammalian Pex5p, the Peroxisomal Import Receptor. Journal of Biological Chemistry, 2007, 282, 31267-31272.	3.4	158

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55	Functional characterization of two missense mutations in Pex5pâ€"C11S and N526K. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 1141-1148.	4.1	32
56	Trypanosoma bruceiglycosomal ABC transporters: identification and membrane targeting. Molecular Membrane Biology, 2006, 23, 157-172.	2.0	48
57	The N-terminal Half of the Peroxisomal Cycling Receptor Pex5p is a Natively Unfolded Domain. Journal of Molecular Biology, 2006, 356, 864-875.	4.2	76
58	Localization of a portion of the liver isoform of fatty-acid-binding protein (L-FABP) to peroxisomes. Biochemical Journal, 2006, 394, 475-484.	3.7	38
59	Farnesylation of Pex19p is not essential for peroxisome biogenesis in yeast and mammalian cells. Cellular and Molecular Life Sciences, 2006, 63, 1686-1699.	5.4	27
60	Targeting signals in peroxisomal membrane proteins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1629-1638.	4.1	53
61	Import of peroxisomal membrane proteins: The interplay of Pex3p- and Pex19p-mediated interactions. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1639-1646.	4.1	115
62	The Import Competence of a Peroxisomal Membrane Protein Is Determined by Pex19p before the Docking Step. Journal of Biological Chemistry, 2006, 281, 34492-34502.	3.4	53
63	Pex5p, the Peroxisomal Cycling Receptor, Is a Monomeric Non-globular Protein. Journal of Biological Chemistry, 2005, 280, 24404-24411.	3.4	43
64	Analysis of Human Pex19p's Domain Structure by Pentapeptide Scanning Mutagenesis. Journal of Molecular Biology, 2005, 346, 1275-1286.	4.2	56
65	Potential Role for Pex19p in Assembly of PTS-Receptor Docking Complexes. Journal of Biological Chemistry, 2004, 279, 12615-12624.	3.4	63
66	The N Terminus of the Peroxisomal Cycling Receptor, Pex5p, Is Required for Redirecting the Peroxisome-associated Peroxin Back to the Cytosol. Journal of Biological Chemistry, 2004, 279, 46573-46579.	3.4	49
67	Analysis of Mammalian Peroxin Interactions Using a Non-transcription-based Bacterial Two-hybrid Assay. Molecular and Cellular Proteomics, 2002, 1, 243-252.	3.8	61
68	Functional studies on human Pex7p: subcellular localization and interaction with proteins containing a peroxisome-targeting signal type 2 and other peroxins. Biochemical Journal, 2002, 365, 41-50.	3.7	36
69	Characterisation of human peroxisomal 2,4-dienoyl-CoA reductase1The sequence was deposited in the EMBL database (AJ293009).12During the preparation of this manuscript, the sequence of clone LA61-359F1 was finalised (AL023881 version 24) and an ORF was deduced which was identical to the cloned pDCR cDNA.2. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2001, 1533, 66-72.	2.4	18
70	Identification of PEX5p-related novel peroxisome-targeting signal 1 (PTS1)-binding proteins in mammals. Biochemical Journal, 2001, 357, 635.	3.7	27
71	Identification of PEX5p-related novel peroxisome-targeting signal 1 (PTS1)-binding proteins in mammals. Biochemical Journal, 2001, 357, 635-646.	3.7	32
72	Human Pex19p Binds Peroxisomal Integral Membrane Proteins at Regions Distinct from Their Sorting Sequences. Molecular and Cellular Biology, 2001, 21, 4413-4424.	2.3	124

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73	How Peroxisomes Arise. Traffic, 2000, 1, 465-473.	2.7	51
74	Identification of peroxisomal proteins by using M13 phage protein VI phage display: molecular evidence that mammalian peroxisomes contain a 2,4-dienoyl-CoA reductase. Biochemical Journal, 1999, 340, 561-568.	3.7	68
75	Identification of peroxisomal proteins by using M13 phage protein VI phage display: molecular evidence that mammalian peroxisomes contain a 2,4-dienoyl-CoA reductase. Biochemical Journal, 1999, 340, 561.	3.7	32
76	The Difference in Recognition of Terminal Tripeptides as Peroxisomal Targeting Signal 1 between Yeast and Human Is Due to Different Affinities of Their Receptor Pex5p to the Cognate Signal and to Residues Adjacent to It. Journal of Biological Chemistry, 1998, 273, 33635-33643.	3.4	192
77	A mouse model for Zellweger syndrome. Nature Genetics, 1997, 17, 49-57.	21.4	267
78	The Visualization of Peroxisomal Proteins Containing a C-Terminal Targeting Sequence on Western Blot by Using the Biotinylated PTS1-Receptor. Analytical Biochemistry, 1997, 246, 270.	2.4	0
79	Rat Pristanoyl-CoA Oxidase. cDNA Cloning and Recognition of its C-Terminal (SQL) by the Peroxisomal-Targeting Signal 1 Receptor. FEBS Journal, 1996, 239, 302-309.	0.2	28
80	Further Characterization of the Peroxisomal 3-Hydroxyacyl-Coa Dehydrogenases from Rat Liver. Relationship Between the Different Dehydrogenases and Evidence That Fatty Acids and the C27 Bile Acids Di- and Tri-Hydroxycoprostanic Acids are Metabolized by Separate Multifunctional Proteins. FEBS Journal, 1996, 240, 660-666.	0.2	108
81	The Visualization of Peroxisomal Proteins Containing a C-Terminal Targeting Sequence on Western Blot by Using the Biotinylated PTS1-Receptor. Analytical Biochemistry, 1996, 242, 26-30.	2.4	19
82	Further Characterization of the Human Peroxisomal C-Terminal Targeting Signal Protein Import Receptor. Annals of the New York Academy of Sciences, 1996, 804, 672-673.	3.8	2
83	Mammalian Peroxisomal Acyl-CoA Oxidases.. Annals of the New York Academy of Sciences, 1996, 804, 674-675.	3.8	1
84	Mammalian Peroxisomal Acyl-CoA Oxidases.. Annals of the New York Academy of Sciences, 1996, 804, 676-677.	3.8	4
85	Mammalian Peroxisomal Acyl-CoA Oxidases.. Annals of the New York Academy of Sciences, 1996, 804, 678-679.	3.8	3
86	Identification and Characterization of the Putative Human Peroxisomal C-terminal Targeting Signal Import Receptor. Journal of Biological Chemistry, 1995, 270, 7731-7736.	3.4	170
87	The Gene for the Peroxisomal Targeting Signal Import Receptor (PXR1) Is Located on Human Chromosome 12p13, Flanked by TPI1 and D12S1089. Genomics, 1995, 30, 366-368.	2.9	4
88	Large-scale purification and further characterization of rat pristanoyl-CoA oxidase. FEBS Journal, 1994, 222, 795-801.	0.2	46
89	Presence of small GTP-binding proteins in the peroxisomal membrane. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1109, 48-54.	2.6	40
90	Metabolism of germinating teliospores of Ustilago nuda. Archives of Microbiology, 1989, 153, 33-37.	2.2	5

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91	Class I peroxisomal membrane protein import. Reactome - A Curated Knowledgebase of Biological Pathways, 0, 68, .	0.0	0