Jorge E. Azevedo

List of Publications by Year
in descending order

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77 papers	3,530 citations	109321 35 h-index	144013 57 g-index
77 all docs	77 docs citations	77 times ranked	2687 citing authors

#	Article	IF	Citations
1	Proteomics Characterization of Mouse Kidney Peroxisomes by Tandem Mass Spectrometry and Protein Correlation Profiling. Molecular and Cellular Proteomics, 2007, 6, 2045-2057.	3.8	210
2	Ubiquitination of Mammalian Pex5p, the Peroxisomal Import Receptor. Journal of Biological Chemistry, 2007, 282, 31267-31272.	3.4	158
3	Chemical Chaperones Reduce Endoplasmic Reticulum Stress and Prevent Mutant HFE Aggregate Formation. Journal of Biological Chemistry, 2007, 282, 27905-27912.	3.4	150
4	Members of the E2D (UbcH5) Family Mediate the Ubiquitination of the Conserved Cysteine of Pex5p, the Peroxisomal Import Receptor. Journal of Biological Chemistry, 2008, 283, 14190-14197.	3.4	118
5	Characterization of Peroxisomal Pex5p from Rat Liver. Journal of Biological Chemistry, 2000, 275, 32444-32451.	3.4	106
6	A nonsense mutation in the LIMP-2 gene associated with progressive myoclonic epilepsy and nephrotic syndrome. Human Molecular Genetics, 2008, 17, 2238-2243.	2.9	99
7	Characterization of the Peroxisomal Cycling Receptor, Pex5p, Using a Cell-free in Vitro Import System. Journal of Biological Chemistry, 2003, 278, 226-232.	3.4	92
8	Caspase-1 and IL-1Î² Processing in a Teleost Fish. PLoS ONE, 2012, 7, e50450.	2.5	90
9	Characterization of the Mammalian Peroxisomal Import Machinery. Journal of Biological Chemistry, 2001, 276, 29935-29942.	3.4	88
10	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
11	AIP56, a novel plasmid-encoded virulence factor ofPhotobacterium damselaesubsp.piscicidawith apoptogenic activity against sea bass macrophages and neutrophils. Molecular Microbiology, 2005, 58, 1025-1038.	2.5	85
12	The de novo synthesis of ubiquitin: identification of deubiquitinases acting on ubiquitin precursors. Scientific Reports, 2015, 5, 12836.	3.3	82
13	The Energetics of Pex5p-mediated Peroxisomal Protein Import. Journal of Biological Chemistry, 2003, 278, 39483-39488.	3.4	81
14	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
15	Pex14p, more than just a docking protein. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1574-1584.	4.1	80
16	Properties of the Ubiquitin-Pex5p Thiol Ester Conjugate. Journal of Biological Chemistry, 2009, 284, 10504-10513.	3.4	80
17	Insertion of Pex5p into the Peroxisomal Membrane Is Cargo Protein-dependent. Journal of Biological Chemistry, 2003, 278, 4389-4392.	3.4	79
18	Export-deficient monoubiquitinated PEX5 triggers peroxisome removal in SV40 large T antigen-transformed mouse embryonic fibroblasts. Autophagy, 2015, 11, 1326-1340.	9.1	79

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19	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
20	Stimulation of an Unfolded Protein Response Impairs MHC Class I Expression. Journal of Immunology, 2007, 178, 3612-3619.	0.8	67
21	<scp>PEX5</scp>, the Shuttling Import Receptor for Peroxisomal Matrix Proteins, Is a Redoxâ€Sensitive Protein. Traffic, 2014, 15, 94-103.	2.7	67
22	Protein transport into peroxisomes: Knowns and unknowns. BioEssays, 2017, 39, 1700047.	2.5	60
23	The peroxisomal protein import machinery â€“ a case report of transient ubiquitination with a new flavor. Cellular and Molecular Life Sciences, 2009, 66, 254-262.	5.4	57
24	HFE cross-talks with the MHC class I antigen presentation pathway. Blood, 2005, 106, 971-977.	1.4	55
25	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
26	Mouse liver PMP70 and ALDP: homomeric interactions prevail in vivo. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2004, 1689, 235-243.	3.8	51
27	Primary structures of two subunits of NADH:ubiquinone reductase from Neurospora crassa concerned with NADH-oxidation. Relationship to a soluble NAD-reducing hydrogenase of Alcaligenes eutrophus. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1991, 1090, 133-138.	2.4	49
28	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
29	High-Yield Expression in Escherichia coli and Purification of Mouse Ubiquitin-Activating Enzyme E1. Molecular Biotechnology, 2012, 51, 254-261.	2.4	46
30	A Cargo-centered Perspective on the PEX5 Receptor-mediated Peroxisomal Protein Import Pathway. Journal of Biological Chemistry, 2013, 288, 29151-29159.	3.4	46
31	Mammalian Pex14p: membrane topology and characterisation of the Pex14pâ€“Pex14p interaction. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1567, 13-22.	2.6	45
32	Mapping the Cargo Protein Membrane Translocation Step into the PEX5 Cycling Pathway. Journal of Biological Chemistry, 2009, 284, 27243-27251.	3.4	44
33	Heat shock induces a massive but differential inactivation of SUMO-specific proteases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 1958-1966.	4.1	44
34	Pex5p, the Peroxisomal Cycling Receptor, Is a Monomeric Non-globular Protein. Journal of Biological Chemistry, 2005, 280, 24404-24411.	3.4	43
35	The Apoptogenic Toxin AIP56 Is a Metalloprotease A-B Toxin that Cleaves NF-Îºb P65. PLoS Pathogens, 2013, 9, e1003128.	4.7	41
36	Peroxisomal monoubiquitinated PEX5 interacts with the AAA ATPases PEX1 and PEX6 and is unfolded during its dislocation into the cytosol. Journal of Biological Chemistry, 2018, 293, 11553-11563.	3.4	37

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37	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
38	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
39	Ubiquitin in the peroxisomal protein import pathway. Biochimie, 2014, 98, 29-35.	2.6	33
40	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
41	The first minutes in the life of a peroxisomal matrix protein. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 814-820.	4.1	31
42	The 12.3 kDa subunit of complex I (respiratory-chain NADH dehydrogenase) from Neurospora crassa: cDNA cloning and chromosomal mapping of the gene. Biochemical Journal, 1993, 291, 729-732.	3.7	30
43	The peroxisomal protein import machinery displays a preference for monomeric substrates. Open Biology, 2015, 5, 140236.	3.6	30
44	Characterization of the 9.5-kDa ubiquinone-binding protein of NADH:ubiquinone oxidoreductase (complex I) from Neurospora crassa. Biochemistry, 1992, 31, 11420-11424.	2.5	29
45	Selective detection of UCP 3 expression in skeletal muscle: effect of thyroid status and temperature acclimation. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1604, 170-179.	1.0	29
46	Evaluation of the activity and substrate specificity of the human SENP family of SUMO proteases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 139-147.	4.1	27
47	The peroxisomal matrix protein translocon is a large cavity-forming protein assembly into which PEX5 protein enters to release its cargo. Journal of Biological Chemistry, 2017, 292, 15287-15300.	3.4	27
48	Identification of a 24 kDa intrinsic membrane protein from mammalian peroxisomes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1445, 337-341.	2.4	26
49	Probing substrate-induced conformational alterations in adrenoleukodystrophy protein by proteolysis. Journal of Human Genetics, 2005, 50, 99-105.	2.3	26
50	Protein Translocation Across the Peroxisomal Membrane. Cell Biochemistry and Biophysics, 2004, 41, 451-468.	1.8	25
51	Arabidopsis thaliana SPF1 and SPF2 are nuclear-located ULP2-like SUMO proteases that act downstream of SIZ1 in plant development. Journal of Experimental Botany, 2018, 69, 4633-4649.	4.8	25
52	Primary structure and mitochondrial import in vitro of the 20.9 kDa subunit of complex I from Neurospora crassa. Biochemical Journal, 1992, 288, 29-34.	3.7	24
53	The intrinsically disordered nature of the peroxisomal protein translocation machinery. FEBS Journal, 2019, 286, 24-38.	4.7	24
54	Disruption of the gene encoding the 78-kilodalton subunit of the peripheral arm of complex I in Neurospora crassa by repeat induced point mutation (RIP). Current Genetics, 1995, 27, 339-350.	1.7	22

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55	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
56	Alkaline Density Gradient Floatation of Membranes: Polypeptide Composition of the Mammalian Peroxisomal Membrane. Analytical Biochemistry, 1999, 274, 270-277.	2.4	20
57	Revisiting the intraperoxisomal pathway of mammalian PEX7. Scientific Reports, 2015, 5, 11806.	3.3	20
58	CLASP2 binding to curved microtubule tips promotes flux and stabilizes kinetochore attachments. Journal of Cell Biology, 2020, 219, jcb.201905080.	5.2	20
59	Intracellular Trafficking of AIP56, an NF-Î°B-Cleaving Toxin from Photobacterium damselae subsp. piscicida. Infection and Immunity, 2014, 82, 5270-5285.	2.2	19
60	Complementary DNA sequences of the 24 kDa and 21 kDa subunits of complex I from Neurospora. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1188, 159-161.	1.0	17
61	Molecular characterization of 21 X-ALD Portuguese families: identification of eight novel mutations in the ABCD1 gene. Molecular Genetics and Metabolism, 2002, 76, 62-67.	1.1	17
62	Characterisation of two mutations in the ABCD1 gene leading to low levels of normal ALDP. Human Genetics, 2001, 109, 616-622.	3.8	15
63	Characterization of a membrane fragment of respiratory chain complex I from Neurospora crassa. Insights on the topology of the ubiquinone-binding site. International Journal of Biochemistry & Cell Biology, 1994, 26, 505-510.	0.5	14
64	Characterization of the Peroxisomal Cycling Receptor Pex5p Import Pathway. Advances in Experimental Medicine and Biology, 2003, 544, 219-220.	1.6	13
65	Two nuclear-coded subunits of mitochondrial complex I are similar to different domains of a bacterial formate hydrogenlyase subunit. International Journal of Biochemistry & Cell Biology, 1994, 26, 1391-1393.	0.5	12
66	A cell-free organelle-based in vitro system for studying the peroxisomal protein import machinery. Nature Protocols, 2016, 11, 2454-2469.	12.0	12
67	A Mechanistic Perspective on PEX1 and PEX6, Two AAA+ Proteins of the Peroxisomal Protein Import Machinery. International Journal of Molecular Sciences, 2019, 20, 5246.	4.1	9
68	Oligomerization capacity of two arylsulfatase A mutants: C300F and P425T. Biochemical and Biophysical Research Communications, 2003, 306, 293-297.	2.1	8
69	Chemically monoubiquitinated PEX5 binds to the components of the peroxisomal docking and export machinery. Scientific Reports, 2018, 8, 16014.	3.3	8
70	A missense allele of PEX5 is responsible for the defective import of PTS2 cargo proteins into peroxisomes. Human Genetics, 2021, 140, 649-666.	3.8	6
71	Cloning, in vitro mitochondrial import and membrane assembly of the 17.8 kDa subunit of complex I from Neurospora crassa. Biochemical Journal, 1993, 293, 501-506.	3.7	5
72	Primary structure and in vitro expression of the N. crassa phosphoglycerate kinase. DNA Sequence, 1992, 2, 265-267.	0.7	3

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73	Determining the Topology of Peroxisomal Proteins Using Protease Protection Assays. Methods in Molecular Biology, 2017, 1595, 27-35.	0.9	3
74	In organello assembly of respiratory-chain complex I: primary structure of the 14.8 kDa subunit of Neurospora crassa complex I. Biochemical Journal, 1994, 299, 297-302.	3.7	2
75	PEX13 Enters the RING, Lives Fast, Dies Young. Journal of Molecular Biology, 2018, 430, 1559-1561.	4.2	0
76	Characterization of the mammalian peroxisomal import machinery. Pex2p, Pex5p, Pex12p, and Pex14p are subunits of the same protein assembly. VOLUME 276 (2001) PAGES 29935-29942. Journal of Biological Chemistry, 2005, 280, 33096.	3.4	0
77	Factors Involved in Ubiquitination and Deubiquitination of PEX5, the Peroxisomal Shuttling Receptor. , 2014, , 371-388.		0