

Michael Schrader

List of Publications by Year in descending order

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88
papers

6,080
citations

76326

40
h-index

74163

75
g-index

91
all docs

91
docs citations

91
times ranked

6128
citing authors

#	ARTICLE	IF	CITATIONS
1	Peroxisomes and oxidative stress. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1755-1766.	4.1	641
2	Dynamin-like Protein 1 Is Involved in Peroxisomal Fission. <i>Journal of Biological Chemistry</i> , 2003, 278, 8597-8605.	3.4	329
3	A Role for Fis1 in Both Mitochondrial and Peroxisomal Fission in Mammalian Cells. <i>Molecular Biology of the Cell</i> , 2005, 16, 5077-5086.	2.1	288
4	Expression of PEX11 ^{Δ2} Mediates Peroxisome Proliferation in the Absence of Extracellular Stimuli. <i>Journal of Biological Chemistry</i> , 1998, 273, 29607-29614.	3.4	239
5	Reactive oxygen species and peroxisomes: Struggling for balance. <i>BioFactors</i> , 2009, 35, 346-355.	5.4	228
6	The peroxisome: an update on mysteries 2.0. <i>Histochemistry and Cell Biology</i> , 2018, 150, 443-471.	1.7	217
7	ACBD5 and VAPB mediate membrane associations between peroxisomes and the ER. <i>Journal of Cell Biology</i> , 2017, 216, 331-342.	5.2	193
8	The peroxisome: an update on mysteries. <i>Histochemistry and Cell Biology</i> , 2012, 137, 547-574.	1.7	188
9	Peroxisome-mitochondria interplay and disease. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 681-702.	3.6	171
10	Peroxisome elongation and constriction but not fission can occur independently of dynamin-like protein 1. <i>Journal of Cell Science</i> , 2004, 117, 3995-4006.	2.0	162
11	The peroxisome: still a mysterious organelle. <i>Histochemistry and Cell Biology</i> , 2008, 129, 421-440.	1.7	161
12	The different facets of organelle interplay—an overview of organelle interactions. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 56.	3.7	159
13	Mammalian peroxisomes and reactive oxygen species. <i>Histochemistry and Cell Biology</i> , 2004, 122, 383-393.	1.7	152
14	6-Hydroxydopamine (6-OHDA) induces Drp1-dependent mitochondrial fragmentation in SH-SY5Y cells. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1960-1969.	2.9	142
15	Proliferation and fission of peroxisomes — An update. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 971-983.	4.1	137
16	Peroxisomes, lipid droplets, and endoplasmic reticulum — hitchhike on motile early endosomes. <i>Journal of Cell Biology</i> , 2015, 211, 945-954.	5.2	129
17	Mitochondria and peroxisomes: Are the “Big Brother”™ and the “Little Sister”™ closer than assumed?. <i>BioEssays</i> , 2007, 29, 1105-1114.	2.5	127
18	Shared components of mitochondrial and peroxisomal division. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 531-541.	4.1	120

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19	Co-regulation map of the human proteome enables identification of protein functions. <i>Nature Biotechnology</i> , 2019, 37, 1361-1371.	17.5	106
20	Predicting the targeting of tail-anchored proteins to subcellular compartments in mammalian cells. <i>Journal of Cell Science</i> , 2017, 130, 1675-1687.	2.0	94
21	ACBD5 deficiency causes a defect in peroxisomal very long-chain fatty acid metabolism. <i>Journal of Medical Genetics</i> , 2017, 54, 330-337.	3.2	90
22	Growth and Division of Peroxisomes. <i>International Review of Cytology</i> , 2006, 255, 237-290.	6.2	88
23	Pex11p ² -mediated growth and division of mammalian peroxisomes follows a maturation pathway. <i>Journal of Cell Science</i> , 2010, 123, 2750-2762.	2.0	86
24	Organelle interplay ² peroxisome interactions in health and disease. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 71-89.	3.6	85
25	Charcot-Marie-Tooth disease-associated mutants of GDAP1 dissociate its roles in peroxisomal and mitochondrial fission. <i>EMBO Reports</i> , 2013, 14, 545-552.	4.5	84
26	Peroxisome Interactions and Cross-Talk with Other Subcellular Compartments in Animal Cells. <i>Sub-Cellular Biochemistry</i> , 2013, 69, 1-22.	2.4	79
27	Tubulo-Reticular Clusters of Peroxisomes in Living COS-7 Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2001, 49, 1421-1429.	2.5	77
28	A role for Mitochondrial Rho GTPase 1 (MIRO1) in motility and membrane dynamics of peroxisomes. <i>Traffic</i> , 2018, 19, 229-242.	2.7	74
29	Targeting of hFis1 to Peroxisomes Is Mediated by Pex19p. <i>Journal of Biological Chemistry</i> , 2008, 283, 31107-31115.	3.4	73
30	Regulated Apical Secretion of Zymogens in Rat Pancreas. <i>Journal of Biological Chemistry</i> , 2001, 276, 14315-14323.	3.4	71
31	The membrane remodeling protein Pex11p activates the GTPase Dnm1p during peroxisomal fission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6377-6382.	7.1	69
32	Active diffusion and microtubule-based transport oppose myosin forces to position organelles in cells. <i>Nature Communications</i> , 2016, 7, 11814.	12.8	69
33	Peroxisomal ACBD4 interacts with VAPB and promotes ER-peroxisome associations. <i>Cell Cycle</i> , 2017, 16, 1039-1045.	2.6	69
34	Biogenesis of peroxisomes and mitochondria: linked by division. <i>Histochemistry and Cell Biology</i> , 2009, 131, 441-446.	1.7	68
35	Deleterious variants in TRAK1 disrupt mitochondrial movement and cause fatal encephalopathy. <i>Brain</i> , 2017, 140, 568-581.	7.6	53
36	Peroxisomal motility and interaction with microtubules. <i>Microscopy Research and Technique</i> , 2003, 61, 171-178.	2.2	52

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37	Maintaining social contacts: The physiological relevance of organelle interactions. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118800.	4.1	52
38	Induction of Tubular Peroxisomes by UV Irradiation and Reactive Oxygen Species in HepG2 Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 1999, 47, 1141-1148.	2.5	50
39	New insights into the peroxisomal protein inventory: Acyl-CoA oxidases and -dehydrogenases are an ancient feature of peroxisomes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 111-125.	4.1	49
40	Tubular peroxisomes in HepG2 cells: Selective induction by growth factors and arachidonic acid. <i>European Journal of Cell Biology</i> , 1998, 75, 87-96.	3.6	42
41	Peroxisomes are platforms for cytomegalovirus™ evasion from the cellular immune response. <i>Scientific Reports</i> , 2016, 6, 26028.	3.3	38
42	Interaction of syncollin with GP-2, the major membrane protein of pancreatic zymogen granules, and association with lipid microdomains. <i>Biochemical Journal</i> , 2002, 362, 433-442.	3.7	35
43	A lipophilic cation protects crops against fungal pathogens by multiple modes of action. <i>Nature Communications</i> , 2020, 11, 1608.	12.8	31
44	Transient Complex Interactions of Mammalian Peroxisomes Without Exchange of Matrix or Membrane Marker Proteins. <i>Traffic</i> , 2012, 13, 960-978.	2.7	30
45	The diversity of ACBD proteins – From lipid binding to protein modulators and organelle tethers. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118675.	4.1	29
46	The respiratory chain inhibitor rotenone affects peroxisomal dynamics via its microtubule-destabilising activity. <i>Histochemistry and Cell Biology</i> , 2017, 148, 331-341.	1.7	28
47	Interaction of peroxisomes with microtubules. <i>FEBS Journal</i> , 2000, 267, 6264-6275.	0.2	27
48	Multi-localized Proteins: The Peroxisome-Mitochondria Connection. <i>Sub-Cellular Biochemistry</i> , 2018, 89, 383-415.	2.4	26
49	Mitochondrial fission factor (MFF) is a critical regulator of peroxisome maturation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118709.	4.1	26
50	Dynamin-like protein 1 at the Golgi complex: A novel component of the sorting/targeting machinery en route to the plasma membrane. <i>Experimental Cell Research</i> , 2010, 316, 3454-3467.	2.6	25
51	Interaction of syncollin with GP-2, the major membrane protein of pancreatic zymogen granules, and association with lipid microdomains. <i>Biochemical Journal</i> , 2002, 362, 433.	3.7	24
52	Self-Interaction of Human Pex11p ² during Peroxisomal Growth and Division. <i>PLoS ONE</i> , 2013, 8, e53424.	2.5	24
53	Regulating peroxisome-ER contacts via the ACBD5-VAPB tether by FFAT motif phosphorylation and GSK3 ² . <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	24
54	Rab8 is Involved in Zymogen Granule Formation in Pancreatic Acinar AR42J Cells. <i>Traffic</i> , 2008, 9, 964-979.	2.7	23

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55	SH3 Binding Sites of ZG29p Mediate an Interaction with Amylase and Are Involved in CondensationâSorting in the Exocrine Rat Pancreas. <i>Biochemistry</i> , 2000, 39, 9893-9900.	2.5	21
56	Effects of fixation on the preservation of peroxisomal structures for immunofluorescence studies using HepG2 cells as a model system. <i>The Histochemical Journal</i> , 1995, 27, 615-619.	0.6	20
57	Cytochemical Detection of Peroxisomes and Mitochondria. <i>Methods in Molecular Biology</i> , 2012, 931, 467-482.	0.9	18
58	Postfixation detergent treatment liberates the membrane modelling protein Pex11 ^{Î²} from peroxisomal membranes. <i>Histochemistry and Cell Biology</i> , 2012, 138, 541-547.	1.7	18
59	Unloosing the Gordian knot of peroxisome formation. <i>Current Opinion in Cell Biology</i> , 2018, 50, 50-56.	5.4	18
60	Determinants of Peroxisome Membrane Dynamics. <i>Frontiers in Physiology</i> , 2022, 13, 834411.	2.8	18
61	The making of a mammalian peroxisome, version 2.0: mitochondria get into the mix. <i>Cell Death and Differentiation</i> , 2017, 24, 1148-1152.	11.2	15
62	VAP Proteins â From Organelle Tethers to Pathogenic Host Interactors and Their Role in Neuronal Disease. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	14
63	Analysis of Low Abundance Membrane-Associated Proteins from Rat Pancreatic Zymogen Granules. <i>Journal of Proteome Research</i> , 2010, 9, 4927-4939.	3.7	13
64	Pex11p ^{Î²} -mediated maturation of peroxisomes. <i>Communicative and Integrative Biology</i> , 2011, 4, 51-54.	1.4	13
65	Fluorescent Tools to Analyze PeroxisomeâEndoplasmic Reticulum Interactions in Mammalian Cells. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , 2019, 2, 251525641984864.	1.3	13
66	Intracellular redistribution of neuronal peroxisomes in response to ACBD5 expression. <i>PLoS ONE</i> , 2018, 13, e0209507.	2.5	12
67	Membrane Targeting in Secretion. <i>Sub-Cellular Biochemistry</i> , 2004, 37, 391-421.	2.4	12
68	PEX11 ^{Î²} and FIS1 cooperate in peroxisome division independently of mitochondrial fission factor. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	12
69	The Importance of Microtubules in Determination of Shape and Intracellular Distribution of Peroxisomes. <i>Annals of the New York Academy of Sciences</i> , 1996, 804, 669-671.	3.8	9
70	Proteomic analysis of zymogen granules. <i>Expert Review of Proteomics</i> , 2010, 7, 735-747.	3.0	9
71	Peroxisomes. <i>Current Biology</i> , 2011, 21, R800-R801.	3.9	9
72	Proteoglycans support proper granule formation in pancreatic acinar cells. <i>Histochemistry and Cell Biology</i> , 2015, 144, 331-346.	1.7	9

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73	A Functional SMAD2/3 Binding Site in the PEX11 ^{Δ2} Promoter Identifies a Role for TGF β 2 in Peroxisome Proliferation in Humans. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 577637.	3.7	9
74	Elongation of Peroxisomes as an Indicator for Efficient Dynamin-like Protein 1 Knock Down in Mammalian Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2005, 53, 1037-1040.	2.5	8
75	Insights Into the Peroxisomal Protein Inventory of Zebrafish. <i>Frontiers in Physiology</i> , 2022, 13, 822509.	2.8	8
76	Determination of Peroxisomal pH in Living Mammalian Cells Using pHRed. <i>Methods in Molecular Biology</i> , 2017, 1595, 181-189.	0.9	6
77	Miro1 – the missing link to peroxisome motility. <i>Communicative and Integrative Biology</i> , 2018, 11, e1526573.	1.4	6
78	Histochemistry and Cell Biology: 61 years and not tired at all. <i>Histochemistry and Cell Biology</i> , 2019, 152, 1-11.	1.7	6
79	Peroxisome Motility Measurement and Quantification Assay. <i>Bio-protocol</i> , 2017, 7, .	0.4	6
80	Transient complex peroxisomal interactions. <i>Communicative and Integrative Biology</i> , 2012, 5, 534-537.	1.4	5
81	Detection and Immunolabeling of Peroxisomal Proteins. <i>Methods in Molecular Biology</i> , 2017, 1595, 113-130.	0.9	5
82	Fission Impossible (?) – New Insights into Disorders of Peroxisome Dynamics. <i>Cells</i> , 2022, 11, 1922.	4.1	5
83	Assay and Functional Analysis of Dynamin-like Protein 1 in Peroxisome Division. <i>Methods in Enzymology</i> , 2005, 404, 586-597.	1.0	3
84	Modulating zymogen granule formation in pancreatic AR42J cells. <i>Experimental Cell Research</i> , 2012, 318, 1855-1866.	2.6	3
85	siRNA-mediated Silencing of Peroxisomal Genes in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2017, 1595, 69-79.	0.9	2
86	Multiple Ways to Keep FFAT Under Control!. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , 2022, 5, 251525642211012.	1.3	1
87	Addendum to the paper: Proteoglycans support proper granule formation in pancreatic AR42J cells. <i>Histochemistry and Cell Biology</i> , 2016, 146, 115-115.	1.7	0
88	Labeling of Peroxisomes for Live Cell Imaging in the Filamentous Fungus <i>Ustilago maydis</i> . <i>Methods in Molecular Biology</i> , 2017, 1595, 131-150.	0.9	0