

# Thomas L Schwarz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1212265/publications.pdf>

Version: 2024-02-01

43  
papers

11,660  
citations

172457

29  
h-index

265206

42  
g-index

49  
all docs

49  
docs citations

49  
times ranked

19873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	PINK1 and Parkin Target Miro for Phosphorylation and Degradation to Arrest Mitochondrial Motility. <i>Cell</i> , 2011, 147, 893-906.	28.9	997
3	The Mechanism of Ca <sup>2+</sup> -Dependent Regulation of Kinesin-Mediated Mitochondrial Motility. <i>Cell</i> , 2009, 136, 163-174.	28.9	743
4	Axonal Transport of Mitochondria to Synapses Depends on Milton, a Novel <i>Drosophila</i> Protein. <i>Neuron</i> , 2002, 36, 1063-1077.	8.1	567
5	Axonal transport of mitochondria requires miltion to recruit kinesin heavy chain and is light chain independent. <i>Journal of Cell Biology</i> , 2006, 173, 545-557.	5.2	562
6	Mitochondrial Trafficking in Neurons. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a011304-a011304.	5.5	439
7	Mitophagy of damaged mitochondria occurs locally in distal neuronal axons and requires PINK1 and Parkin. <i>Journal of Cell Biology</i> , 2014, 206, 655-670.	5.2	415
8	Mitostasis in Neurons: Maintaining Mitochondria in an Extended Cellular Architecture. <i>Neuron</i> , 2017, 96, 651-666.	8.1	379
9	Synaptic transmission persists in synaptotagmin mutants of <i>Drosophila</i> . <i>Cell</i> , 1993, 73, 1281-1290.	28.9	247
10	Glucose Regulates Mitochondrial Motility via Milton Modification by O-GlcNAc Transferase. <i>Cell</i> , 2014, 158, 54-68.	28.9	223
11	Amines and A Peptide As Neurohormones in Lobsters: Actions on Neuromuscular Preparations and Preliminary Behavioural Studies. <i>Journal of Experimental Biology</i> , 1980, 89, 159-175.	1.7	204
12	The paradox of paclitaxel neurotoxicity: Mechanisms and unanswered questions. <i>Neuropharmacology</i> , 2014, 76, 175-183.	4.1	185
13	Mutations in the Exocyst Component Sec5 Disrupt Neuronal Membrane Traffic, but Neurotransmitter Release Persists. <i>Neuron</i> , 2003, 37, 433-447.	8.1	182
14	A Slowed Classical Pathway Rather Than Kiss-and-Run Mediates Endocytosis at Synapses Lacking Synaptotagmin and Endophilin. <i>Cell</i> , 2005, 123, 521-533.	28.9	176
15	Altered Synaptic Development and Active Zone Spacing in Endocytosis Mutants. <i>Current Biology</i> , 2006, 16, 591-598.	3.9	160
16	The Mammalian-Specific Protein Armcx1 Regulates Mitochondrial Transport during Axon Regeneration. <i>Neuron</i> , 2016, 92, 1294-1307.	8.1	150
17	Axonal transport and the delivery of pre-synaptic components. <i>Current Opinion in Neurobiology</i> , 2008, 18, 495-503.	4.2	146
18	A <i>Drosophila</i> kinesin required for synaptic bouton formation and synaptic vesicle transport. <i>Nature Neuroscience</i> , 2007, 10, 980-989.	14.8	144

#	ARTICLE	IF	CITATIONS
19	Presynaptic $\text{Ca}^{2+}$ is required for synaptic morphogenesis independent of its $\text{Ca}^{2+}$ -channel functions. <i>Nature Neuroscience</i> , 2009, 12, 1415-1423.	14.8	137
20	Miro phosphorylation sites regulate Parkin recruitment and mitochondrial motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6097-E6106.	7.1	122
21	Neurotoxic mechanisms of paclitaxel are local to the distal axon and independent of transport defects. <i>Experimental Neurology</i> , 2017, 288, 153-166.	4.1	85
22	The nuclear import of Frizzled2-C by Importins $\beta$ 11 and $\beta$ 2 promotes postsynaptic development. <i>Nature Neuroscience</i> , 2010, 13, 935-943.	14.8	82
23	A peptide action in a lobster neuromuscular preparation. <i>Journal of Neurobiology</i> , 1980, 11, 623-628.	3.6	77
24	Chapter 18 Imaging Axonal Transport of Mitochondria. <i>Methods in Enzymology</i> , 2009, 457, 319-333.	1.0	57
25	The light-sensitive dimerizer zapalog reveals distinct modes of immobilization for axonal mitochondria. <i>Nature Cell Biology</i> , 2019, 21, 768-777.	10.3	56
26	Ral mediates activity-dependent growth of postsynaptic membranes via recruitment of the exocyst. <i>EMBO Journal</i> , 2013, 32, 2039-2055.	7.8	55
27	Neuronal mitochondria transport Pink1 mRNA via synaptojanin 2 to support local mitophagy. <i>Neuron</i> , 2022, 110, 1516-1531.e9.	8.1	55
28	<i>O</i> -GlcNAc Transferase Is Essential for Sensory Neuron Survival and Maintenance. <i>Journal of Neuroscience</i> , 2017, 37, 2125-2136.	3.6	38
29	A high mitochondrial transport rate characterizes CNS neurons with high axonal regeneration capacity. <i>PLoS ONE</i> , 2017, 12, e0184672.	2.5	37
30	A High-Content Screen Identifies TPP1 and Aurora B as Regulators of Axonal Mitochondrial Transport. <i>Cell Reports</i> , 2019, 28, 3224-3237.e5.	6.4	31
31	FHL2 anchors mitochondria to actin and adapts mitochondrial dynamics to glucose supply. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	31
32	Kinetochore Proteins Have a Post-Mitotic Function in Neurodevelopment. <i>Developmental Cell</i> , 2019, 48, 873-882.e4.	7.0	30
33	<i>Drosophila</i> Importin $\beta$ 2 Is Involved in Synapse, Axon and Muscle Development. <i>PLoS ONE</i> , 2010, 5, e15223.	2.5	20
34	Synaptotagmin promotes both vesicle fusion and recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16401-16402.	7.1	19
35	Transmitter Release at the Neuromuscular Junction. <i>International Review of Neurobiology</i> , 2006, 75, 105-144.	2.0	19
36	Kymolyzer, a Semi-Autonomous Kymography Tool to Analyze Intracellular Motility. <i>Current Protocols in Cell Biology</i> , 2020, 87, e107.	2.3	19

#	ARTICLE	IF	CITATIONS
37	Filamin, a synaptic organizer in <i>Drosophila</i> , determines glutamate receptor composition and membrane growth. <i>ELife</i> , 2016, 5, .	6.0	17
38	APP and DYRK1A regulate axonal and synaptic vesicle protein networks and mediate Alzheimer's pathology in trisomy 21 neurons. <i>Molecular Psychiatry</i> , 2022, 27, 1970-1989.	7.9	14
39	zapERtrap: A light-regulated ER release system reveals unexpected neuronal trafficking pathways. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	10
40	For Parkin, it's not all or nothing. <i>EMBO Journal</i> , 2014, 33, 277-279.	7.8	7
41	QuoVadoPro, an Autonomous Tool for Measuring Intracellular Dynamics Using Temporal Variance. <i>Current Protocols in Cell Biology</i> , 2020, 87, e108.	2.3	6
42	Serine/Threonine Protein Phosphatase 2A Regulates the Transport of Axonal Mitochondria. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 852245.	3.7	4
43	Mitochondrial hitch-hiking of <i>Pink1</i> mRNA supports axonal mitophagy. <i>Autophagy</i> , 2022, , 1-2.	9.1	0