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List of Publications by Year
in descending order

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85 papers	12,046 citations	61945 43 h-index	51562 86 g-index
91 all docs	91 docs citations	91 times ranked	22363 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Mitochondrial dysfunction in Parkinson's disease: molecular mechanisms and pathophysiological consequences. EMBO Journal, 2012, 31, 3038-3062.	3.5	487
3	Mitochondrial dysfunction in Parkinson's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 29-44.	1.8	481
4	Loss-of-Function of Human PINK1 Results in Mitochondrial Pathology and Can Be Rescued by Parkin. Journal of Neuroscience, 2007, 27, 12413-12418.	1.7	466
5	Inhibition of mitochondrial fusion by Î±-synuclein is rescued by PINK1, Parkin and DJ-1. EMBO Journal, 2010, 29, 3571-3589.	3.5	431
6	Propionic Acid Shapes the Multiple Sclerosis Disease Course by an Immunomodulatory Mechanism. Cell, 2020, 180, 1067-1080.e16.	13.5	367
7	Loss of Parkin or PINK1 Function Increases Drp1-dependent Mitochondrial Fragmentation. Journal of Biological Chemistry, 2009, 284, 22938-22951.	1.6	355
8	Cytoplasmic protein aggregates interfere with nucleocytoplasmic transport of protein and RNA. Science, 2016, 351, 173-176.	6.0	336
9	The two faces of protein misfolding: gain- and loss-of-function in neurodegenerative diseases. EMBO Journal, 2008, 27, 336-349.	3.5	333
10	The cellular prion protein mediates neurotoxic signalling of Î²-sheet-rich conformers independent of prion replication. EMBO Journal, 2011, 30, 2057-2070.	3.5	209
11	Inflammation-Induced Alteration of Astrocyte Mitochondrial Dynamics Requires Autophagy for Mitochondrial Network Maintenance. Cell Metabolism, 2013, 18, 844-859.	7.2	201
12	The E3 Ligase Parkin Maintains Mitochondrial Integrity by Increasing Linear Ubiquitination of NEMO. Molecular Cell, 2013, 49, 908-921.	4.5	183
13	Parkin Mediates Neuroprotection through Activation of IÂB Kinase/Nuclear Factor-ÂB Signaling. Journal of Neuroscience, 2007, 27, 1868-1878.	1.7	171
14	Inactivation of Parkin by Oxidative Stress and C-terminal Truncations. Journal of Biological Chemistry, 2003, 278, 47199-47208.	1.6	125
15	Parkin and mitochondrial quality control: toward assembling the puzzle. Trends in Cell Biology, 2014, 24, 332-341.	3.6	124
16	The Mitochondrial Chaperone Protein TRAP1 Mitigates Î±-Synuclein Toxicity. PLoS Genetics, 2012, 8, e1002488.	1.5	120
17	Cofactor Tpr2 combines two TPR domains and a J domain to regulate the Hsp70/Hsp90 chaperone system. EMBO Journal, 2003, 22, 3613-3623.	3.5	118
18	Parkin, PINK1 and mitochondrial integrity: emerging concepts of mitochondrial dysfunction in Parkinsonâ€™s disease. Acta Neuropathologica, 2012, 123, 173-188.	3.9	118

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19	Stress-protective signalling of prion protein is corrupted by scrapie prions. EMBO Journal, 2008, 27, 1974-1984.	3.5	106
20	Pathogenic mutations inactivate parkin by distinct mechanisms. Journal of Neurochemistry, 2005, 92, 114-122.	2.1	98
21	<scp>PERK</scp> activation mitigates tau pathology inÂvitro and inÂvivo. EMBO Molecular Medicine, 2017, 9, 371-384.	3.3	93
22	Î±-Synuclein in Parkinsonâ€™s disease: causal or bystander?. Journal of Neural Transmission, 2019, 126, 815-840.	1.4	88
23	The mitochondrial kinase <scp>PINK</scp>1: functions beyond mitophagy. Journal of Neurochemistry, 2016, 139, 232-239.	2.1	87
24	Association of Bcl-2 with Misfolded Prion Protein Is Linked to the Toxic Potential of Cytosolic PrP. Molecular Biology of the Cell, 2006, 17, 3356-3368.	0.9	86
25	TRAP1 rescues PINK1 loss-of-function phenotypes. Human Molecular Genetics, 2013, 22, 2829-2841.	1.4	81
26	Mitochondria at the interface between neurodegeneration and neuroinflammation. Seminars in Cell and Developmental Biology, 2020, 99, 163-171.	2.3	74
27	The key role of solvent in condensation: Mapping water in liquid-liquid phase-separated FUS. Biophysical Journal, 2021, 120, 1266-1275.	0.2	71
28	Linear Ubiquitin Chains: Cellular Functions and Strategies for Detection and Quantification. Frontiers in Chemistry, 2019, 7, 915.	1.8	70
29	Alpha-synuclein prevents the formation of spherical mitochondria and apoptosis under oxidative stress. Scientific Reports, 2017, 7, 42942.	1.6	68
30	Parkin cooperates with GDNF/RET signaling to prevent dopaminergic neuron degeneration. Journal of Clinical Investigation, 2015, 125, 1873-1885.	3.9	67
31	Ret rescues mitochondrial morphology and muscle degeneration of Drosophila Pink1 mutants. EMBO Journal, 2014, 33, 341-355.	3.5	65
32	Systematic Identification of Antiprion Drugs by High-Throughput Screening Based on Scanning for Intensely Fluorescent Targets. Journal of Virology, 2005, 79, 7785-7791.	1.5	64
33	Green tea extracts interfere with the stressâ€protective activity of PrP^C and the formation of PrP^{Sc}. Journal of Neurochemistry, 2008, 107, 218-229.	2.1	64
34	Pink1-deficiency in mice impairs gait, olfaction and serotonergic innervation of the olfactory bulb. Experimental Neurology, 2012, 235, 214-227.	2.0	64
35	Impaired complex IV activity in response to loss of LRPPRC function can be compensated by mitochondrial hyperfusion. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2967-76.	3.3	63
36	A protein quality control pathway regulated by linear ubiquitination. EMBO Journal, 2019, 38, .	3.5	63

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37	Synthesis of Indomorphan Pseudoâ€Natural Product Inhibitors of Glucose Transporters GLUTâ€1 and â€3. Angewandte Chemie - International Edition, 2019, 58, 17016-17025.	7.2	61
38	The C-terminal Globular Domain of the Prion Protein Is Necessary and Sufficient for Import into the Endoplasmic Reticulum. Journal of Biological Chemistry, 2004, 279, 5435-5443.	1.6	60
39	Geldanamycin Restores a Defective Heat Shock Responsein Vivo. Journal of Biological Chemistry, 2001, 276, 45160-45167.	1.6	59
40	Determinants of the in Vivo Folding of the Prion Protein. Journal of Biological Chemistry, 2003, 278, 14961-14970.	1.6	57
41	Semisynthetic Murine Prion Protein Equipped with a GPI Anchor Mimic Incorporates into Cellular Membranes. Chemistry and Biology, 2007, 14, 994-1006.	6.2	56
42	Inhibition of Complex Glycosylation Increases the Formation of PrP^{sc}. Traffic, 2003, 4, 313-322.	1.3	54
43	Misfolding of the Prion Protein at the Plasma Membrane Induces Endocytosis, Intracellular Retention and Degradation. Traffic, 2004, 5, 426-436.	1.3	47
44	Neutrophil-generated HOCl leads to non-specific thiol oxidation in phagocytized bacteria. ELife, 2018, 7, .	2.8	47
45	Aberrant Folding of Pathogenic Parkin Mutants. Journal of Biological Chemistry, 2008, 283, 13771-13779.	1.6	44
46	Parkin Is Protective against Proteotoxic Stress in a Transgenic Zebrafish Model. PLoS ONE, 2010, 5, e11783.	1.1	44
47	Post-translational Import of the Prion Protein into the Endoplasmic Reticulum Interferes with Cell Viability. Journal of Biological Chemistry, 2003, 278, 36139-36147.	1.6	41
48	Pathogenic Mutations Located in the Hydrophobic Core of the Prion Protein Interfere with Folding and Attachment of the Glycosylphosphatidylinositol Anchor. Journal of Biological Chemistry, 2005, 280, 9320-9329.	1.6	41
49	Structural Instability of the Prion Protein upon M205S/R Mutations Revealed by Molecular Dynamics Simulations. Biophysical Journal, 2006, 90, 3908-3918.	0.2	38
50	Laquinimod treatment in the R6/2 mouse model. Scientific Reports, 2017, 7, 4947.	1.6	36
51	A Pathogenic PrP Mutation and Doppel Interfere with Polarized Sorting of the Prion Protein. Journal of Biological Chemistry, 2005, 280, 5137-5140.	1.6	35
52	Structural features within the nascent chain regulate alternative targeting of secretory proteins to mitochondria. EMBO Journal, 2013, 32, 1036-1051.	3.5	34
53	A sensitive filter retention assay for the detection of PrPScand the screening of anti-prion compounds. FEBS Letters, 2001, 503, 41-45.	1.3	32
54	Neuroprotective and Neurotoxic Signaling by the Prion Protein. Topics in Current Chemistry, 2011, 305, 101-119.	4.0	31

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55	PINK1 and Parkin: team players in stress-induced mitophagy. Biological Chemistry, 2020, 401, 891-899.	1.2	31
56	Folding and misfolding of the prion protein in the secretory pathway. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2004, 11, 162-172.	1.4	29
57	Prion protein-related proteins from zebrafish are complex glycosylated and contain a glycosylphosphatidylinositol anchor. Biochemical and Biophysical Research Communications, 2006, 341, 218-224.	1.0	29
58	The parkin protein as a therapeutic target in Parkinson's disease. Expert Opinion on Therapeutic Targets, 2007, 11, 1543-1552.	1.5	26
59	Conserved Stress-protective Activity between Prion Protein and Shadoo. Journal of Biological Chemistry, 2011, 286, 8901-8908.	1.6	25
60	Cellular Prion Protein Mediates Toxic Signaling of Amyloid Beta. Neurodegenerative Diseases, 2012, 10, 298-300.	0.8	24
61	A new perspective on membrane-embedded Bax oligomers using DEER and bioresistant orthogonal spin labels. Scientific Reports, 2019, 9, 13013.	1.6	24
62	Î±-Helical Domains Promote Translocation of Intrinsically Disordered Polypeptides into the Endoplasmic Reticulum. Journal of Biological Chemistry, 2009, 284, 24384-24393.	1.6	22
63	The polysaccharide scaffold of PrP 27-30 is a common compound of natural prions and consists of Î±-linked polyglucose. Biological Chemistry, 2005, 386, 1149-55.	1.2	21
64	Protein immobilization on liposomes and lipidâ€coated nanoparticles by protein transâ€splicing. Journal of Peptide Science, 2010, 16, 582-588.	0.8	20
65	Alterations in the brain interactome of the intrinsically disordered N-terminal domain of the cellular prion protein (PrPC) in Alzheimerâ€™s disease. PLoS ONE, 2018, 13, e0197659.	1.1	20
66	The N-terminal domain of the prion protein is required and sufficient for liquidâ€“liquid phase separation: A crucial role of the AÎ²-binding domain. Journal of Biological Chemistry, 2021, 297, 100860.	1.6	19
67	Targeting of the prion protein to the cytosol: mechanisms and consequences. Current Issues in Molecular Biology, 2010, 12, 109-18.	1.0	19
68	Increased levels of mitochondrial import factor Mia40 prevent the aggregation of polyQ proteins in the cytosol. EMBO Journal, 2021, 40, e107913.	3.5	18
69	Observing fibrillar assemblies on scrapie-infected cells. Pflugers Archiv European Journal of Physiology, 2008, 456, 83-93.	1.3	16
70	The Sec61/SecY complex is inherently deficient in translocating intrinsically disordered proteins. Journal of Biological Chemistry, 2017, 292, 21383-21396.	1.6	16
71	The parkin-coregulated gene product PACRG promotes TNF signaling by stabilizing LUBAC. Science Signaling, 2020, 13, .	1.6	16
72	Activation leads to a significant shift in the intracellular redox homeostasis of neutrophil-like cells. Redox Biology, 2020, 28, 101344.	3.9	15

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73	The Î±-Helical Structure of Prodomains Promotes Translocation of Intrinsically Disordered Neuropeptide Hormones into the Endoplasmic Reticulum. Journal of Biological Chemistry, 2013, 288, 13961-13973.	1.6	14
74	Increased ROS Level in Spinal Cord of Wobbler Mice due to Nmnat2 Downregulation. Molecular Neurobiology, 2018, 55, 8414-8424.	1.9	14
75	Protein quality control by the proteasome and autophagy: A regulatory role of ubiquitin and liquid-liquid phase separation. Matrix Biology, 2021, 100-101, 9-22.	1.5	14
76	Dimerization of the cellular prion protein inhibits propagation of scrapie prions. Journal of Biological Chemistry, 2018, 293, 8020-8031.	1.6	13
77	Hypochlorous acid-modified human serum albumin suppresses MHC class II - dependent antigen presentation in pro-inflammatory macrophages. Redox Biology, 2021, 43, 101981.	3.9	13
78	Synthesis of a GPI anchor module suitable for protein postâ€translational modification. Biopolymers, 2010, 94, 457-464.	1.2	12
79	Remodeling of the Fibrillation Pathway of Î±â€Synuclein by Interaction with Antimicrobial Peptide LLâ€II. Chemistry - A European Journal, 2021, 27, 11845-11851.	1.7	12
80	Optogenetic delivery of trophic signals in a genetic model of Parkinsonâ€™s disease. PLoS Genetics, 2021, 17, e1009479.	1.5	11
81	The Role of Ubiquitin in Regulating Stress Granule Dynamics. Frontiers in Physiology, 2022, 13, .	1.3	11
82	The Heat Shock Response Is Modulated by and Interferes with Toxic Effects of Scrapie Prion Protein and Amyloid Î². Journal of Biological Chemistry, 2012, 287, 43765-43776.	1.6	9
83	Increased ROS-Dependent Fission of Mitochondria Causes Abnormal Morphology of the Cell Powerhouses in a Murine Model of Amyotrophic Lateral Sclerosis. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-16.	1.9	7
84	Amyloid precursor protein elevates fusion of promyelocytic leukemia nuclear bodies in human hippocampal areas with high plaque load. Acta Neuropathologica Communications, 2021, 9, 66.	2.4	5
85	SecY-mediated quality control prevents the translocation of non-gated porins. Scientific Reports, 2020, 10, 16347.	1.6	2