Edward A Fon

List of Publications by Year
in descending order

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82 papers	16,468 citations	117571 34 h-index	62565 80 g-index
101 all docs	101 docs citations	101 times ranked	27549 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	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
3	Ubiquitin is phosphorylated by PINK1 to activate parkin. Nature, 2014, 510, 162-166.	13.7	1,185
4	A new pathway for mitochondrial quality control: mitochondrialâ€•derived vesicles. EMBO Journal, 2014, 33, 2142-2156.	3.5	641
5	A Vesicular Transport Pathway Shuttles Cargo from Mitochondria to Lysosomes. Current Biology, 2012, 22, 135-141.	1.8	589
6	Mitochondrial processing peptidase regulates PINK1 processing, import and Parkin recruitment. EMBO Reports, 2012, 13, 378-385.	2.0	558
7	Parkin and PINK1 function in a vesicular trafficking pathway regulating mitochondrial quality control. EMBO Journal, 2014, 33, n/a-n/a.	3.5	546
8	Mitochondrial dysfunction and mitophagy in Parkinson's: from familial to sporadic disease. Trends in Biochemical Sciences, 2015, 40, 200-210.	3.7	444
9	Structure of Parkin Reveals Mechanisms for Ubiquitin Ligase Activation. Science, 2013, 340, 1451-1455.	6.0	440
10	A regulated interaction with the UIM protein Eps15 implicates parkin in EGF receptor trafficking and PI(3)Kâ€“Akt signalling. Nature Cell Biology, 2006, 8, 834-842.	4.6	325
11	The three â€˜Pâ€™s of mitophagy: PARKIN, PINK1, and post-translational modifications. Genes and Development, 2015, 29, 989-999.	2.7	324
12	<scp>USP</scp> 8 regulates mitophagy by removing <scp>K</scp> 6â€•linked ubiquitin conjugates from parkin. EMBO Journal, 2014, 33, 2473-2491.	3.5	298
13	Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy. ELife, 2018, 7, .	2.8	261
14	Most genome-wide significant susceptibility loci for schizophrenia and bipolar disorder reported to date cross-traditional diagnostic boundaries. Human Molecular Genetics, 2011, 20, 387-391.	1.4	233
15	Syntaxin-17 delivers PINK1/parkin-dependent mitochondrial vesicles to the endolysosomal system. Journal of Cell Biology, 2016, 214, 275-291.	2.3	181
16	Parkin and CASK/LIN-2 Associate via a PDZ-mediated Interaction and Are Co-localized in Lipid Rafts and Postsynaptic Densities in Brain. Journal of Biological Chemistry, 2002, 277, 486-491.	1.6	162
17	Endocytic membrane trafficking and neurodegenerative disease. Cellular and Molecular Life Sciences, 2016, 73, 1529-1545.	2.4	130
18	The Machadoâ€“Joseph disease-associated mutant form of ataxin-3 regulates parkin ubiquitination and stability. Human Molecular Genetics, 2011, 20, 141-154.	1.4	129

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19	Parkin-mediated Monoubiquitination of the PDZ Protein PICK1 Regulates the Activity of Acid-sensing Ion Channels. Molecular Biology of the Cell, 2007, 18, 3105-3118.	0.9	122
20	SH3 Domains from a Subset of BAR Proteins Define a Ubl-Binding Domain and Implicate Parkin in Synaptic Ubiquitination. Molecular Cell, 2009, 36, 1034-1047.	4.5	121
21	Parkin- and PINK1-Dependent Mitophagy in Neurons: Will the Real Pathway Please Stand Up?. Frontiers in Neurology, 2013, 4, 100.	1.1	111
22	Structure and Function of Parkin, PINK1, and DJ-1, the Three Musketeers of Neuroprotection. Frontiers in Neurology, 2013, 4, 38.	1.1	110
23	Defending the mitochondria: The pathways of mitophagy and mitochondrial-derived vesicles. International Journal of Biochemistry and Cell Biology, 2016, 79, 427-436.	1.2	98
24	Canadian guideline for Parkinson disease. Cmaj, 2019, 191, E989-E1004.	0.9	90
25	<i>SMPD1</i> mutations, activity, and Î±â€synuclein accumulation in Parkinson's disease. Movement Disorders, 2019, 34, 526-535.	2.2	81
26	Structure-guided mutagenesis reveals a hierarchical mechanism of Parkin activation. Nature Communications, 2017, 8, 14697.	5.8	74
27	Mitochondrial quality control in health and in Parkinsonâ€™s disease. Physiological Reviews, 2022, 102, 1721-1755.	13.1	70
28	Genetic, Structural, and Functional Evidence Link <i>TMEM175</i> to Synucleinopathies. Annals of Neurology, 2020, 87, 139-153.	2.8	65
29	Ataxin-3 Deubiquitination Is Coupled to Parkin Ubiquitination via E2 Ubiquitin-conjugating Enzyme. Journal of Biological Chemistry, 2012, 287, 531-541.	1.6	64
30	The landscape of Parkin variants reveals pathogenic mechanisms and therapeutic targets in Parkinsonâ€™s disease. Human Molecular Genetics, 2019, 28, 2811-2825.	1.4	61
31	Rab7A regulates tau secretion. Journal of Neurochemistry, 2017, 141, 592-605.	2.1	54
32	<scp>LRRK</scp> 2 localizes to endosomes and interacts with clathrinâ€light chains to limit Rac1 activation. EMBO Reports, 2015, 16, 79-86.	2.0	53
33	Disruption of GRIN2B Impairs Differentiation in Human Neurons. Stem Cell Reports, 2018, 11, 183-196.	2.3	53
34	Pleiotropic effects for Parkin and LRRK2 in leprosy type-1 reactions and Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15616-15624.	3.3	50
35	Mechanism of PINK1 activation by autophosphorylation and insights into assembly on the TOM complex. Molecular Cell, 2022, 82, 44-59.e6.	4.5	42
36	A Multistep Workflow to Evaluate Newly Generated iPSCs and Their Ability to Generate Different Cell Types. Methods and Protocols, 2021, 4, 50.	0.9	40

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37	Fineâ€Mapping of <i>SNCA</i> in Rapid Eye Movement Sleep Behavior Disorder and Overt Synucleinopathies. Annals of Neurology, 2020, 87, 584-598.	2.8	39
38	Analysis of Heterozygous <scp><i>PRKN</i></scp> Variants and Copyâ€Number Variations in Parkinson's Disease. Movement Disorders, 2021, 36, 178-187.	2.2	39
39	Midbrain organoids with an<i>SNCA</i>gene triplication model key features of synucleinopathy. Brain Communications, 2021, 3, fcab223.	1.5	37
40	Mutant ataxin-3 promotes the autophagic degradation of parkin. Autophagy, 2011, 7, 233-234.	4.3	35
41	The Quebec Parkinson Network: A Researcher-Patient Matching Platform and Multimodal Biorepository. Journal of Parkinson's Disease, 2020, 10, 301-313.	1.5	35
42	The E3 Ubiquitin Ligase Parkin Is Recruited to the 26 S Proteasome via the Proteasomal Ubiquitin Receptor Rpn13. Journal of Biological Chemistry, 2015, 290, 7492-7505.	1.6	32
43	Bcl-2-associated athanogene 5 (BAG5) regulates Parkin-dependent mitophagy and cell death. Cell Death and Disease, 2019, 10, 907.	2.7	32
44	Short Mitochondrial ARF Triggers Parkin/PINK1-dependent Mitophagy. Journal of Biological Chemistry, 2014, 289, 29519-29530.	1.6	31
45	Full sequencing and haplotype analysis of <i>MAPT</i> in Parkinson's disease and rapid eye movement sleep behavior disorder. Movement Disorders, 2018, 33, 1016-1020.	2.2	31
46	Targeted sequencing of Parkinsonâ€™s disease loci genes highlights <i>SYT11, FGF20</i> and other associations. Brain, 2021, 144, 462-472.	3.7	31
47	Ataxin-3 and Its E3 Partners: Implications for Machadoâ€“Joseph Disease. Frontiers in Neurology, 2013, 4, 46.	1.1	28
48	Long-Term Potentiation in Isolated Dendritic Spines. PLoS ONE, 2009, 4, e6021.	1.1	24
49	MFN2 retrotranslocation boosts mitophagy by uncoupling mitochondria from the ER. Autophagy, 2018, 14, 1658-1660.	4.3	24
50	Presenting mitochondrial antigens: PINK1, Parkin and MDVs steal the show. Cell Research, 2016, 26, 1180-1181.	5.7	23
51	Common and rare GCH1 variants are associated with Parkinson'sÂdisease. Neurobiology of Aging, 2019, 73, 231.e1-231.e6.	1.5	20
52	One Step Into the Future: New iPSC Tools to Advance Research in Parkinsonâ€™s Disease and Neurological Disorders. Journal of Parkinson's Disease, 2019, 9, 265-281.	1.5	19
53	Analysis of common and rare <i>VPS13C</i> variants in late-onset Parkinson disease. Neurology: Genetics, 2020, 6, 385.	0.9	19
54	Association study of DNAJC13, UCHL1, HTRA2, GIGYF2, and EIF4G1 with Parkinson's disease. Neurobiology of Aging, 2021, 100, 119.e7-119.e13.	1.5	19

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55	Development of an Î±-synuclein knockdown peptide and evaluation of its efficacy in Parkinsonâ€™s disease models. Communications Biology, 2021, 4, 232.	2.0	18
56	Stimulation of L-type calcium channels increases tyrosine hydroxylase and dopamine in ventral midbrain cells induced from somatic cells. Stem Cells Translational Medicine, 2020, 9, 697-712.	1.6	17
57	Clearance of intracellular tau protein from neuronal cells via VAMP8-induced secretion. Journal of Biological Chemistry, 2020, 295, 17827-17841.	1.6	17
58	Sequencing of the GBA coactivator, Saposin C, in Parkinson disease. Neurobiology of Aging, 2018, 72, 187.e1-187.e3.	1.5	16
59	Quantitative expansion microscopy for the characterization of the spectrin periodic skeleton of axons using fluorescence microscopy. Scientific Reports, 2020, 10, 2917.	1.6	15
60	Microfabricated disk technology: Rapid scale up in midbrain organoid generation. Methods, 2022, 203, 465-477.	1.9	15
61	Proteomic Profiling of Mitochondrial-Derived Vesicles in Brain Reveals Enrichment of Respiratory Complex Sub-assemblies and Small TIM Chaperones. Journal of Proteome Research, 2021, 20, 506-517.	1.8	14
62	Variants in the Niemannâ€“Pick type C gene NPC1 are not associated with Parkinson's disease. Neurobiology of Aging, 2020, 93, 143.e1-143.e4.	1.5	13
63	Pharmacological Inhibition of Brain EGFR Activation By a BBB-penetrating Inhibitor, AZD3759, Attenuates Î±-synuclein Pathology in a Mouse Model of Î±-Synuclein Propagation. Neurotherapeutics, 2021, 18, 979-997.	2.1	13
64	Structural basis for feedforward control in the PINK1/Parkin pathway. EMBO Journal, 2022, 41, e109460.	3.5	13
65	Hallmarks and Molecular Tools for the Study of Mitophagy in Parkinsonâ€™s Disease. Cells, 2022, 11, 2097.	1.8	13
66	Clinical perception and management of Parkinson's disease during the COVID-19 pandemic: A Canadian experience. Parkinsonism and Related Disorders, 2021, 91, 66-76.	1.1	12
67	A light-inducible protein clustering system for in vivo analysis of Î±-synuclein aggregation in Parkinson disease. PLoS Biology, 2022, 20, e3001578.	2.6	12
68	TOX3 Variants Are Involved in Restless Legs Syndrome and Parkinsonâ€™s Disease with Opposite Effects. Journal of Molecular Neuroscience, 2018, 64, 341-345.	1.1	11
69	Selective localization of Mfn2 near PINK1 enables its preferential ubiquitination by Parkin on mitochondria. Open Biology, 2022, 12, 210255.	1.5	10
70	Beyond ER: Regulating TOM-Complex-Mediated Import by Ubx2. Trends in Cell Biology, 2019, 29, 687-689.	3.6	9
71	Cell Death: N-degrons Fine-Tune Pyroptotic Cell Demise. Current Biology, 2019, 29, R588-R591.	1.8	9
72	Formylation of Eukaryotic Cytoplasmic Proteins: Linking Stress to Degradation. Trends in Biochemical Sciences, 2019, 44, 181-183.	3.7	8

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73	Decreased Penetrance of Parkinson's Disease in Elderly Carriers of Glucocerebrosidase Gene L444P/R Mutations: A Communityâ€Based 10â€Year Longitudinal Study. Movement Disorders, 2020, 35, 672-678.	2.2	8
74	Principles of mitochondrial vesicle transport. Current Opinion in Physiology, 2018, 3, 25-33.	0.9	7
75	Generation of human midbrain organoids from induced pluripotent stem cells. MNI Open Research, 0, 3, 1.	1.0	7
76	Fine-Tuning TOM-Mitochondrial Import via Ubiquitin. Trends in Cell Biology, 2020, 30, 425-427.	3.6	6
77	Generation of homozygous PRKN, PINK1 and double PINK1/PRKN knockout cell lines from healthy induced pluripotent stem cells using CRISPR/Cas9 editing. Stem Cell Research, 2022, 62, 102806.	0.3	6
78	When Degradation Elicits the Alarm: N-Terminal Degradation of NLRP1B Unleashes Its Inflammasome Activity. Molecular Cell, 2019, 74, 637-639.	4.5	5
79	Co-registration of Imaging Modalities (MRI, CT and PET) to Perform Frameless Stereotaxic Robotic Injections in the Common Marmoset. Neuroscience, 2022, 480, 143-154.	1.1	5
80	An approach to measuring protein turnover in human induced pluripotent stem cell organoids by mass spectrometry. Methods, 2022, 203, 17-27.	1.9	5
81	FOXG1 dose tunes cell proliferation dynamics in human forebrain progenitor cells. Stem Cell Reports, 2022, 17, 475-488.	2.3	4
82	Standardized Quality Control Workflow to Evaluate the Reproducibility and Differentiation Potential of Human iPSCs into Neurons. SSRN Electronic Journal, 0, , .	0.4	2