

# Edward A Fon

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

16,468  
citations

117453

34  
h-index

62479

80  
g-index

101  
all docs

101  
docs citations

101  
times ranked

27549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfabricated disk technology: Rapid scale up in midbrain organoid generation. <i>Methods</i> , 2022, 203, 465-477.	1.9	15
2	Co-registration of Imaging Modalities (MRI, CT and PET) to Perform Frameless Stereotaxic Robotic Injections in the Common Marmoset. <i>Neuroscience</i> , 2022, 480, 143-154.	1.1	5
3	Selective localization of Mfn2 near PINK1 enables its preferential ubiquitination by Parkin on mitochondria. <i>Open Biology</i> , 2022, 12, 210255.	1.5	10
4	Mechanism of PINK1 activation by autophosphorylation and insights into assembly on the TOM complex. <i>Molecular Cell</i> , 2022, 82, 44-59.e6.	4.5	42
5	FOXC1 dose tunes cell proliferation dynamics in human forebrain progenitor cells. <i>Stem Cell Reports</i> , 2022, 17, 475-488.	2.3	4
6	A light-inducible protein clustering system for in vivo analysis of $\alpha$ -synuclein aggregation in Parkinson disease. <i>PLoS Biology</i> , 2022, 20, e3001578.	2.6	12
7	An approach to measuring protein turnover in human induced pluripotent stem cell organoids by mass spectrometry. <i>Methods</i> , 2022, 203, 17-27.	1.9	5
8	Mitochondrial quality control in health and in Parkinson's disease. <i>Physiological Reviews</i> , 2022, 102, 1721-1755.	13.1	70
9	Structural basis for feedforward control in the PINK1/Parkin pathway. <i>EMBO Journal</i> , 2022, 41, e109460.	3.5	13
10	Generation of homozygous PRKN, PINK1 and double PINK1/PRKN knockout cell lines from healthy induced pluripotent stem cells using CRISPR/Cas9 editing. <i>Stem Cell Research</i> , 2022, 62, 102806.	0.3	6
11	Hallmarks and Molecular Tools for the Study of Mitophagy in Parkinson's Disease. <i>Cells</i> , 2022, 11, 2097.	1.8	13
12	Analysis of Heterozygous PRKN Variants and Copy Number Variations in Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 178-187.	2.2	39
13	Proteomic Profiling of Mitochondrial-Derived Vesicles in Brain Reveals Enrichment of Respiratory Complex Sub-assemblies and Small TIM Chaperones. <i>Journal of Proteome Research</i> , 2021, 20, 506-517.	1.8	14
14	Targeted sequencing of Parkinson's disease loci genes highlights SYT11, FGF20 and other associations. <i>Brain</i> , 2021, 144, 462-472.	3.7	31
15	Development of an $\alpha$ -synuclein knockdown peptide and evaluation of its efficacy in Parkinson's disease models. <i>Communications Biology</i> , 2021, 4, 232.	2.0	18
16	Pharmacological Inhibition of Brain EGFR Activation By a BBB-penetrating Inhibitor, AZD3759, Attenuates $\alpha$ -synuclein Pathology in a Mouse Model of $\alpha$ -Synuclein Propagation. <i>Neurotherapeutics</i> , 2021, 18, 979-997.	2.1	13
17	Association study of DNAJC13, UCHL1, HTRA2, GIGYF2, and EIF4G1 with Parkinson's disease. <i>Neurobiology of Aging</i> , 2021, 100, 119.e7-119.e13.	1.5	19
18	A Multistep Workflow to Evaluate Newly Generated iPSCs and Their Ability to Generate Different Cell Types. <i>Methods and Protocols</i> , 2021, 4, 50.	0.9	40

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19	Midbrain organoids with an <i>SNCA</i> gene triplication model key features of synucleinopathy. <i>Brain Communications</i> , 2021, 3, fcab223.	1.5	37
20	Clinical perception and management of Parkinson's disease during the COVID-19 pandemic: A Canadian experience. <i>Parkinsonism and Related Disorders</i> , 2021, 91, 66-76.	1.1	12
21	Genetic, Structural, and Functional Evidence Link <i>TMEM175</i> to Synucleinopathies. <i>Annals of Neurology</i> , 2020, 87, 139-153.	2.8	65
22	Decreased Penetrance of Parkinson's Disease in Elderly Carriers of Glucocerebrosidase Gene L444P/R Mutations: A Community-Based 10-Year Longitudinal Study. <i>Movement Disorders</i> , 2020, 35, 672-678.	2.2	8
23	Stimulation of L-type calcium channels increases tyrosine hydroxylase and dopamine in ventral midbrain cells induced from somatic cells. <i>Stem Cells Translational Medicine</i> , 2020, 9, 697-712.	1.6	17
24	Quantitative expansion microscopy for the characterization of the spectrin periodic skeleton of axons using fluorescence microscopy. <i>Scientific Reports</i> , 2020, 10, 2917.	1.6	15
25	Fine-Mapping of <i>SNCA</i> in Rapid Eye Movement Sleep Behavior Disorder and Overt Synucleinopathies. <i>Annals of Neurology</i> , 2020, 87, 584-598.	2.8	39
26	The Quebec Parkinson Network: A Researcher-Patient Matching Platform and Multimodal Biorepository. <i>Journal of Parkinson's Disease</i> , 2020, 10, 301-313.	1.5	35
27	Variants in the Niemann-Pick type C gene <i>NPC1</i> are not associated with Parkinson's disease. <i>Neurobiology of Aging</i> , 2020, 93, 143.e1-143.e4.	1.5	13
28	Fine-Tuning TOM-Mitochondrial Import via Ubiquitin. <i>Trends in Cell Biology</i> , 2020, 30, 425-427.	3.6	6
29	Analysis of common and rare <i>VPS13C</i> variants in late-onset Parkinson disease. <i>Neurology: Genetics</i> , 2020, 6, 385.	0.9	19
30	Clearance of intracellular tau protein from neuronal cells via VAMP8-induced secretion. <i>Journal of Biological Chemistry</i> , 2020, 295, 17827-17841.	1.6	17
31	Beyond ER: Regulating TOM-Complex-Mediated Import by Ubx2. <i>Trends in Cell Biology</i> , 2019, 29, 687-689.	3.6	9
32	Cell Death: N-degrons Fine-Tune Pyroptotic Cell Demise. <i>Current Biology</i> , 2019, 29, R588-R591.	1.8	9
33	Canadian guideline for Parkinson disease. <i>Cmaj</i> , 2019, 191, E989-E1004.	0.9	90
34	Pleiotropic effects for Parkin and LRRK2 in leprosy type-1 reactions and Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15616-15624.	3.3	50
35	When Degradation Elicits the Alarm: N-Terminal Degradation of NLRP1B Unleashes Its Inflammasome Activity. <i>Molecular Cell</i> , 2019, 74, 637-639.	4.5	5
36	The landscape of Parkin variants reveals pathogenic mechanisms and therapeutic targets in Parkinson's disease. <i>Human Molecular Genetics</i> , 2019, 28, 2811-2825.	1.4	61

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37	<i>SMPD1</i> mutations, activity, and $\alpha$ -synuclein accumulation in Parkinson's disease. <i>Movement Disorders</i> , 2019, 34, 526-535.	2.2	81
38	One Step Into the Future: New iPSC Tools to Advance Research in Parkinson's Disease and Neurological Disorders. <i>Journal of Parkinson's Disease</i> , 2019, 9, 265-281.	1.5	19
39	Bcl-2-associated athanogene 5 (BAG5) regulates Parkin-dependent mitophagy and cell death. <i>Cell Death and Disease</i> , 2019, 10, 907.	2.7	32
40	Common and rare GCH1 variants are associated with Parkinson's disease. <i>Neurobiology of Aging</i> , 2019, 73, 231.e1-231.e6.	1.5	20
41	Formylation of Eukaryotic Cytoplasmic Proteins: Linking Stress to Degradation. <i>Trends in Biochemical Sciences</i> , 2019, 44, 181-183.	3.7	8
42	TOX3 Variants Are Involved in Restless Legs Syndrome and Parkinson's Disease with Opposite Effects. <i>Journal of Molecular Neuroscience</i> , 2018, 64, 341-345.	1.1	11
43	Principles of mitochondrial vesicle transport. <i>Current Opinion in Physiology</i> , 2018, 3, 25-33.	0.9	7
44	Full sequencing and haplotype analysis of <i>MAPT</i> in Parkinson's disease and rapid eye movement sleep behavior disorder. <i>Movement Disorders</i> , 2018, 33, 1016-1020.	2.2	31
45	Disruption of GRIN2B Impairs Differentiation in Human Neurons. <i>Stem Cell Reports</i> , 2018, 11, 183-196.	2.3	53
46	Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy. <i>ELife</i> , 2018, 7, .	2.8	261
47	Sequencing of the GBA coactivator, Saposin C, in Parkinson disease. <i>Neurobiology of Aging</i> , 2018, 72, 187.e1-187.e3.	1.5	16
48	MFN2 retrotranslocation boosts mitophagy by uncoupling mitochondria from the ER. <i>Autophagy</i> , 2018, 14, 1658-1660.	4.3	24
49	Rab7A regulates tau secretion. <i>Journal of Neurochemistry</i> , 2017, 141, 592-605.	2.1	54
50	Structure-guided mutagenesis reveals a hierarchical mechanism of Parkin activation. <i>Nature Communications</i> , 2017, 8, 14697.	5.8	74
51	Presenting mitochondrial antigens: PINK1, Parkin and MDVs steal the show. <i>Cell Research</i> , 2016, 26, 1180-1181.	5.7	23
52	Defending the mitochondria: The pathways of mitophagy and mitochondrial-derived vesicles. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 79, 427-436.	1.2	98
53	Syntaxin-17 delivers PINK1/parkin-dependent mitochondrial vesicles to the endolysosomal system. <i>Journal of Cell Biology</i> , 2016, 214, 275-291.	2.3	181
54	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701

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55	Endocytic membrane trafficking and neurodegenerative disease. Cellular and Molecular Life Sciences, 2016, 73, 1529-1545.	2.4	130
56	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
57	The three "P"s of mitophagy: PARKIN, PINK1, and post-translational modifications. Genes and Development, 2015, 29, 989-999.	2.7	324
58	Mitochondrial dysfunction and mitophagy in Parkinson's: from familial to sporadic disease. Trends in Biochemical Sciences, 2015, 40, 200-210.	3.7	444
59	<sc>LRRK</sc> 2 localizes to endosomes and interacts with clathrin-linked chains to limit Rac1 activation. EMBO Reports, 2015, 16, 79-86.	2.0	53
60	Short Mitochondrial ARF Triggers Parkin/PINK1-dependent Mitophagy. Journal of Biological Chemistry, 2014, 289, 29519-29530.	1.6	31
61	Parkin and PINK1 function in a vesicular trafficking pathway regulating mitochondrial quality control. EMBO Journal, 2014, 33, n/a-n/a.	3.5	546
62	Ubiquitin is phosphorylated by PINK1 to activate parkin. Nature, 2014, 510, 162-166.	13.7	1,185
63	<sc>USP</sc> 8 regulates mitophagy by removing <sc>K</sc> 6-linked ubiquitin conjugates from parkin. EMBO Journal, 2014, 33, 2473-2491.	3.5	298
64	A new pathway for mitochondrial quality control: mitochondrial-derived vesicles. EMBO Journal, 2014, 33, 2142-2156.	3.5	641
65	Structure of Parkin Reveals Mechanisms for Ubiquitin Ligase Activation. Science, 2013, 340, 1451-1455.	6.0	440
66	Structure and Function of Parkin, PINK1, and DJ-1, the Three Musketeers of Neuroprotection. Frontiers in Neurology, 2013, 4, 38.	1.1	110
67	Ataxin-3 and Its E3 Partners: Implications for Machado-Joseph Disease. Frontiers in Neurology, 2013, 4, 46.	1.1	28
68	Parkin- and PINK1-Dependent Mitophagy in Neurons: Will the Real Pathway Please Stand Up?. Frontiers in Neurology, 2013, 4, 100.	1.1	111
69	Ataxin-3 Deubiquitination Is Coupled to Parkin Ubiquitination via E2 Ubiquitin-conjugating Enzyme. Journal of Biological Chemistry, 2012, 287, 531-541.	1.6	64
70	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
71	Mitochondrial processing peptidase regulates PINK1 processing, import and Parkin recruitment. EMBO Reports, 2012, 13, 378-385.	2.0	558
72	A Vesicular Transport Pathway Shuttles Cargo from Mitochondria to Lysosomes. Current Biology, 2012, 22, 135-141.	1.8	589

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73	Most genome-wide significant susceptibility loci for schizophrenia and bipolar disorder reported to date cross-traditional diagnostic boundaries. <i>Human Molecular Genetics</i> , 2011, 20, 387-391.	1.4	233
74	The Machadoâ€“Joseph disease-associated mutant form of ataxin-3 regulates parkin ubiquitination and stability. <i>Human Molecular Genetics</i> , 2011, 20, 141-154.	1.4	129
75	Mutant ataxin-3 promotes the autophagic degradation of parkin. <i>Autophagy</i> , 2011, 7, 233-234.	4.3	35
76	Long-Term Potentiation in Isolated Dendritic Spines. <i>PLoS ONE</i> , 2009, 4, e6021.	1.1	24
77	SH3 Domains from a Subset of BAR Proteins Define a Ubl-Binding Domain and Implicate Parkin in Synaptic Ubiquitination. <i>Molecular Cell</i> , 2009, 36, 1034-1047.	4.5	121
78	Parkin-mediated Monoubiquitination of the PDZ Protein PICK1 Regulates the Activity of Acid-sensing Ion Channels. <i>Molecular Biology of the Cell</i> , 2007, 18, 3105-3118.	0.9	122
79	A regulated interaction with the UIM protein Eps15 implicates parkin in EGF receptor trafficking and PI(3)Kâ€“Akt signalling. <i>Nature Cell Biology</i> , 2006, 8, 834-842.	4.6	325
80	Parkin and CASK/LIN-2 Associate via a PDZ-mediated Interaction and Are Co-localized in Lipid Rafts and Postsynaptic Densities in Brain. <i>Journal of Biological Chemistry</i> , 2002, 277, 486-491.	1.6	162
81	Standardized Quality Control Workflow to Evaluate the Reproducibility and Differentiation Potential of Human iPSCs into Neurons. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
82	Generation of human midbrain organoids from induced pluripotent stem cells. <i>MNI Open Research</i> , 0, 3, 1.	1.0	7