

Patrick A Lewis

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

13,201
citations

70961

41
h-index

30010

103
g-index

120
all docs

120
docs citations

120
times ranked

23017
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.	4.3	4,701
2	Identification of novel risk loci, causal insights, and heritable risk for Parkinson's disease: a meta-analysis of genome-wide association studies. <i>Lancet Neurology</i> , The, 2019, 18, 1091-1102.	4.9	1,414
3	Kinase activity is required for the toxic effects of mutant LRRK2/dardarin. <i>Neurobiology of Disease</i> , 2006, 23, 329-341.	2.1	683
4	Genome, transcriptome and proteome: the rise of omics data and their integration in biomedical sciences. <i>Briefings in Bioinformatics</i> , 2018, 19, 286-302.	3.2	498
5	Parkinson's disease induced pluripotent stem cells with triplication of the α -synuclein locus. <i>Nature Communications</i> , 2011, 2, 440.	5.8	406
6	α -Synucleinopathy associated with G51D SNCA mutation: a link between Parkinson's disease and multiple system atrophy?. <i>Acta Neuropathologica</i> , 2013, 125, 753-769.	3.9	369
7	The Parkinson's disease-linked proteins Fbxo7 and Parkin interact to mediate mitophagy. <i>Nature Neuroscience</i> , 2013, 16, 1257-1265.	7.1	292
8	The Parkinson Disease-associated Leucine-rich Repeat Kinase 2 (LRRK2) Is a Dimer That Undergoes Intramolecular Autophosphorylation. <i>Journal of Biological Chemistry</i> , 2008, 283, 16906-16914.	1.6	268
9	The R1441C mutation of LRRK2 disrupts GTP hydrolysis. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 668-671.	1.0	244
10	Structure of the ROC domain from the Parkinson's disease-associated leucine-rich repeat kinase 2 reveals a dimeric GTPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1499-1504.	3.3	218
11	DYT16, a novel young-onset dystonia-parkinsonism disorder: identification of a segregating mutation in the stress-response protein PRKRA. <i>Lancet Neurology</i> , The, 2008, 7, 207-215.	4.9	202
12	The genetics of Parkinson's syndromes: a critical review. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 254-265.	1.5	195
13	Genetic and phenotypic characterization of complex hereditary spastic paraplegia. <i>Brain</i> , 2016, 139, 1904-1918.	3.7	170
14	Estimating the causal influence of body mass index on risk of Parkinson disease: A Mendelian randomisation study. <i>PLoS Medicine</i> , 2017, 14, e1002314.	3.9	152
15	Cancer and Neurodegeneration: Between the Devil and the Deep Blue Sea. <i>PLoS Genetics</i> , 2010, 6, e1001257.	1.5	141
16	LRRK2 is a negative regulator of <i>Mycobacterium tuberculosis</i> phagosome maturation in macrophages. <i>EMBO Journal</i> , 2018, 37, .	3.5	140
17	LRRK2: Cause, Risk, and Mechanism. <i>Journal of Parkinson's Disease</i> , 2013, 3, 85-103.	1.5	128
18	Parkinson's disease-linked mutations in VPS35 induce dopaminergic neurodegeneration. <i>Human Molecular Genetics</i> , 2014, 23, 4621-4638.	1.4	126

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19	Inhibition of LRRK2 kinase activity stimulates macroautophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2900-2910.	1.9	124
20	Cell-free assays for β -secretase activity. <i>FASEB Journal</i> , 2000, 14, 2383-2386.	0.2	108
21	Identification of Candidate Parkinson Disease Genes by Integrating Genome-Wide Association Study, Expression, and Epigenetic Data Sets. <i>JAMA Neurology</i> , 2021, 78, 464.	4.5	95
22	Presenilin 1 Regulates Pharmacologically Distinct β -Secretase Activities. <i>Journal of Biological Chemistry</i> , 2000, 275, 26277-26284.	1.6	93
23	A Presenilin 1 Mutation Associated with Familial Frontotemporal Dementia Inhibits β -Secretase Cleavage of APP and Notch. <i>Neurobiology of Disease</i> , 2002, 9, 269-273.	2.1	92
24	Distinct clinical and neuropathological features of G51D SNCA mutation cases compared with SNCA duplication and H50Q mutation. <i>Molecular Neurodegeneration</i> , 2015, 10, 41.	4.4	90
25	Pathogenic Parkinson's disease mutations across the functional domains of LRRK2 alter the autophagic/lysosomal response to starvation. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 862-866.	1.0	79
26	Mutations in LRRK2/dardarin associated with Parkinson disease are more toxic than equivalent mutations in the homologous kinase LRRK1. <i>Journal of Neurochemistry</i> , 2007, 102, 93-102.	2.1	78
27	Genetic neuropathology of Parkinson's disease. <i>International Journal of Clinical and Experimental Pathology</i> , 2008, 1, 217-31.	0.5	70
28	mTOR independent regulation of macroautophagy by Leucine Rich Repeat Kinase 2 via Beclin-1. <i>Scientific Reports</i> , 2016, 6, 35106.	1.6	69
29	Familial Frontotemporal Dementia Associated with a Novel Presenilin-1 Mutation. <i>Dementia and Geriatric Cognitive Disorders</i> , 2002, 14, 13-21.	0.7	68
30	The Metalloprotease Inhibitor TIMP-3 Regulates Amyloid Precursor Protein and Apolipoprotein E Receptor Proteolysis. <i>Journal of Neuroscience</i> , 2007, 27, 10895-10905.	1.7	67
31	The endocytic membrane trafficking pathway plays a major role in the risk of Parkinson's disease. <i>Movement Disorders</i> , 2019, 34, 460-468.	2.2	66
32	LRRK2 and Human Disease: A Complicated Question or a Question of Complexes?. <i>Science Signaling</i> , 2012, 5, pe2.	1.6	64
33	Dysfunction of the autophagy/lysosomal degradation pathway is a shared feature of the genetic synucleinopathies. <i>FASEB Journal</i> , 2013, 27, 3424-3429.	0.2	61
34	Leucine-rich repeat kinase 2 interacts with p21-activated kinase 6 to control neurite complexity in mammalian brain. <i>Journal of Neurochemistry</i> , 2015, 135, 1242-1256.	2.1	57
35	Increased brain expression of GPNMB is associated with genome wide significant risk for Parkinson's disease on chromosome 7p15.3. <i>Neurogenetics</i> , 2017, 18, 121-133.	0.7	57
36	The function of ROCO proteins in health and disease. <i>Biology of the Cell</i> , 2009, 101, 183-191.	0.7	55

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37	LRRK2 and Autophagy. <i>Advances in Neurobiology</i> , 2017, 14, 89-105.	1.3	54
38	Investigating the utility of human embryonic stem cell-derived neurons to model ageing and neurodegenerative disease using whole-genome gene expression and splicing analysis. <i>Journal of Neurochemistry</i> , 2012, 122, 738-751.	2.1	48
39	Additional rare variant analysis in Parkinson's disease cases with and without known pathogenic mutations: evidence for oligogenic inheritance. <i>Human Molecular Genetics</i> , 2016, 25, ddw348.	1.4	48
40	Computational analysis of the LRRK2 interactome. <i>PeerJ</i> , 2015, 3, e778.	0.9	48
41	PAK6 Phosphorylates 14-3-3 β to Regulate Steady State Phosphorylation of LRRK2. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 417.	1.4	46
42	Fine-Mapping, Gene Expression and Splicing Analysis of the Disease Associated LRRK2 Locus. <i>PLoS ONE</i> , 2013, 8, e70724.	1.1	45
43	Creation of an Open-Access, Mutation-Defined Fibroblast Resource for Neurological Disease Research. <i>PLoS ONE</i> , 2012, 7, e43099.	1.1	44
44	Divergent α -synuclein solubility and aggregation properties in G2019S LRRK2 Parkinson's disease brains with Lewy Body pathology compared to idiopathic cases. <i>Neurobiology of Disease</i> , 2013, 58, 183-190.	2.1	44
45	The R1441C mutation alters the folding properties of the ROC domain of LRRK2. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 1194-1197.	1.8	42
46	Gene expression in the Parkinson's disease brain. <i>Brain Research Bulletin</i> , 2012, 88, 302-312.	1.4	42
47	Identification of sixteen novel candidate genes for late onset Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2021, 16, 35.	4.4	41
48	Parkinson's disease: From human genetics to clinical trials. <i>Science Translational Medicine</i> , 2015, 7, 205ps20.	5.8	39
49	Weighted Protein Interaction Network Analysis of Frontotemporal Dementia. <i>Journal of Proteome Research</i> , 2017, 16, 999-1013.	1.8	39
50	Arsenite Stress Down-regulates Phosphorylation and 14-3-3 Binding of Leucine-rich Repeat Kinase 2 (LRRK2), Promoting Self-association and Cellular Redistribution. <i>Journal of Biological Chemistry</i> , 2014, 289, 21386-21400.	1.6	38
51	<sc>DNAJC</sc> proteins and pathways to parkinsonism. <i>FEBS Journal</i> , 2019, 286, 3080-3094.	2.2	37
52	α -Synuclein mutations cluster around a putative protein loop. <i>Neuroscience Letters</i> , 2013, 546, 67-70.	1.0	36
53	Stratification of candidate genes for Parkinson's disease using weighted protein-protein interaction network analysis. <i>BMC Genomics</i> , 2018, 19, 452.	1.2	35
54	Comparative Protein Interaction Network Analysis Identifies Shared and Distinct Functions for the Human ROCO Proteins. <i>Proteomics</i> , 2018, 18, e1700444.	1.3	34

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55	Rare variants in LRRK1 and Parkinson's disease. <i>Neurogenetics</i> , 2014, 15, 49-57.	0.7	33
56	Dissecting the Phenotype and Genotype of <i>PLA2G6</i> -Related Parkinsonism. <i>Movement Disorders</i> , 2022, 37, 148-161.	2.2	32
57	The LRRK2 signalling system. <i>Cell and Tissue Research</i> , 2018, 373, 39-50.	1.5	31
58	Preclinical modeling of chronic inhibition of the Parkinson's disease associated kinase LRRK2 reveals altered function of the endolysosomal system in vivo. <i>Molecular Neurodegeneration</i> , 2021, 16, 17.	4.4	29
59	Codon 129 polymorphism of the human prion protein influences the kinetics of amyloid formation. <i>Journal of General Virology</i> , 2006, 87, 2443-2449.	1.3	28
60	Coding variation in <i>GBA</i> explains the majority of the SYT11- <i>GBA</i> Parkinson's disease GWAS locus. <i>Movement Disorders</i> , 2018, 33, 1821-1823.	2.2	28
61	Emerging pathways in genetic Parkinson's disease: tangles, Lewy bodies and LRRK2. <i>FEBS Journal</i> , 2008, 275, 5748-5757.	2.2	27
62	A Tangled Web – Tau and Sporadic Parkinson's Disease. <i>Frontiers in Psychiatry</i> , 2010, 1, 150.	1.3	27
63	Pathogenic LRRK2 Mutations Do Not Alter Gene Expression in Cell Model Systems or Human Brain Tissue. <i>PLoS ONE</i> , 2011, 6, e22489.	1.1	27
64	Analysis of macroautophagy related proteins in G2019S LRRK2 Parkinson's disease brains with Lewy body pathology. <i>Brain Research</i> , 2018, 1701, 75-84.	1.1	25
65	Removal of the glycosylphosphatidylinositol anchor from PrPSc by cathepsin D does not reduce prion infectivity. <i>Biochemical Journal</i> , 2006, 395, 443-448.	1.7	23
66	Leucine-rich repeat kinase 2 and lysosomal dyshomeostasis in Parkinson disease. <i>Journal of Neurochemistry</i> , 2020, 152, 273-283.	2.1	21
67	PINOT: an intuitive resource for integrating protein-protein interactions. <i>Cell Communication and Signaling</i> , 2020, 18, 92.	2.7	21
68	Genetic, Structural, and Molecular Insights into the Function of Ras of Complex Proteins Domains. <i>Chemistry and Biology</i> , 2014, 21, 809-818.	6.2	20
69	Vesicular Dysfunction and the Pathogenesis of Parkinson's Disease: Clues From Genetic Studies. <i>Frontiers in Neuroscience</i> , 2019, 13, 1381.	1.4	20
70	The Presenilin 1 C92S Mutation Increases A β 42 Production. <i>Biochemical and Biophysical Research Communications</i> , 2000, 277, 261-263.	1.0	19
71	Abrogation of LRRK2 dependent Rab10 phosphorylation with TLR4 activation and alterations in evoked cytokine release in immune cells. <i>Neurochemistry International</i> , 2021, 147, 105070.	1.9	18
72	Directing LRRK2 to membranes of the endolysosomal pathway triggers RAB phosphorylation and JIP4 recruitment. <i>Neurobiology of Disease</i> , 2022, 170, 105769.	2.1	18

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73	mTOR independent alteration in ULK1 Ser758 phosphorylation following chronic LRRK2 kinase inhibition. <i>Bioscience Reports</i> , 2018, 38, .	1.1	16
74	Network Analysis for Complex Neurodegenerative Diseases. <i>Current Genetic Medicine Reports</i> , 2020, 8, 17-25.	1.9	14
75	GTP binding controls complex formation by the human ROCO protein MASL 1. <i>FEBS Journal</i> , 2014, 281, 261-274.	2.2	13
76	GTP binding and intramolecular regulation by the ROC domain of Death Associated Protein Kinase 1. <i>Scientific Reports</i> , 2012, 2, 695.	1.6	12
77	Protein network analysis reveals selectively vulnerable regions and biological processes in FTD. <i>Neurology: Genetics</i> , 2018, 4, e266.	0.9	12
78	Leucine rich repeat kinase 2: a paradigm for pleiotropy. <i>Journal of Physiology</i> , 2019, 597, 3511-3521.	1.3	12
79	The emerging role of LRRK2 in tauopathies. <i>Clinical Science</i> , 2022, 136, 1071-1079.	1.8	12
80	James Parkinson: The Man Behind the Shaking Palsy. <i>Journal of Parkinson's Disease</i> , 2012, 2, 181-187.	1.5	10
81	Genetic variation across RNA metabolism and cell death gene networks is implicated in the semantic variant of primary progressive aphasia. <i>Scientific Reports</i> , 2019, 9, 10854.	1.6	9
82	Integrating protein networks and machine learning for disease stratification in the Hereditary Spastic Paraplegias. <i>IScience</i> , 2021, 24, 102484.	1.9	8
83	An integrated genomic approach to dissect the genetic landscape regulating the cell-to-cell transfer of Î±-synuclein. <i>Cell Reports</i> , 2021, 35, 109189.	2.9	8
84	Modelling the functional genomics of Parkinsonâ€™s disease in <i>Caenorhabditis elegans</i> LRRK2 and beyond. <i>Bioscience Reports</i> , 2021, 41, .	1.1	8
85	C9orf72, age at onset, and ancestry help discriminate behavioral from language variants in FTL D cohorts. <i>Neurology</i> , 2020, 95, e3288-e3302.	1.5	7
86	SORL1 mutation in a Greek family with Parkinson's disease and dementia. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1961-1969.	1.7	7
87	The Roc domain of LRRK2 as a hub for protein-protein interactions: a focus on PAK6 and its impact on RAB phosphorylation. <i>Brain Research</i> , 2022, 1778, 147781.	1.1	7
88	A step forward for LRRK2 inhibitors in Parkinsonâ€™s disease. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	7
89	Leucine Rich Repeat Kinase 2: beyond Parkinsonâ€™s and beyond kinase inhibitors. <i>Expert Opinion on Therapeutic Targets</i> , 2017, 21, 751-753.	1.5	6
90	Measuring Lactase Enzymatic Activity in the Teaching Lab. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	6

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91	In silico comparative analysis of LRRK2 interactomes from brain, kidney and lung. Brain Research, 2021, 1765, 147503.	1.1	6
92	Vesicle trafficking and pathways to neurodegeneration. Molecular Neurodegeneration, 2021, 16, 56.	4.4	6
93	Vesicular dysfunction and pathways to neurodegeneration. Essays in Biochemistry, 2021, 65, 941-948.	2.1	5
94	Leucine-rich repeat kinase 2 (LRRK2): an update on the potential therapeutic target for Parkinson's disease. Expert Opinion on Therapeutic Targets, 2022, 26, 537-546.	1.5	5
95	Deciphering the function of leucine-rich repeat kinase 2 and targeting its dysfunction in disease. Biochemical Society Transactions, 2012, 40, 1039-1041.	1.6	4
96	Mutations in LRRK2 amplify cell-to-cell protein aggregate propagation: a hypothesis. Acta Neuropathologica, 2018, 135, 973-976.	3.9	4
97	Assaying the Kinase Activity of LRRK2 <i>in vitro</i> . Journal of Visualized Experiments, 2012, , .	0.2	3
98	Pierre D. and the First Photographs of Parkinson's Disease. Movement Disorders, 2020, 35, 389-391.	2.2	3
99	From structure to Biology: a new window on the biology of leucine-rich repeat kinase 2 and Parkinson's disease. Biochemical Journal, 2021, 478, 2945-2951.	1.7	3
100	Mad Fly Disease. Journal of Neuroscience, 2007, 27, 971-972.	1.7	2
101	Emerging pathways in genetic Parkinson's disease. FEBS Journal, 2008, 275, 5747-5747.	2.2	2
102	Insights into the Influence of Specific Splicing Events on the Structural Organization of LRRK2. International Journal of Molecular Sciences, 2018, 19, 2784.	1.8	2
103	Alzheimer's Disease and Dementia. , 2019, , 25-82.		2
104	The Role of LRRK2 Kinase Activity in Cellular PD Models. , 2008, , 423-431.		1
105	Seventy-Two-Hour LRRK2 Kinase Activity Inhibition Increases Lysosomal GBA Expression in H4, a Human Neuroglioma Cell Line. International Journal of Molecular Sciences, 2022, 23, 6935.	1.8	1
106	An Introduction to Neurodegeneration. , 2019, , 1-23.		0
107	The Prion Diseases. , 2019, , 123-155.		0
108	Reply to: "Light and Shade in Patrick Lewis et al's Paper on the First Photographs of Parkinson's Disease". Movement Disorders, 2020, 35, 1882-1882.	2.2	0

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109	Editorial: Protein Degradation Pathways in Parkinson's Disease and Neurodegeneration. <i>Frontiers in Neuroscience</i> , 2020, 14, 741.	1.4	0
110	Prions. <i>ACS in Focus</i> , 2022, , .	0.4	0