RESEARCH & PUBLICATIONS

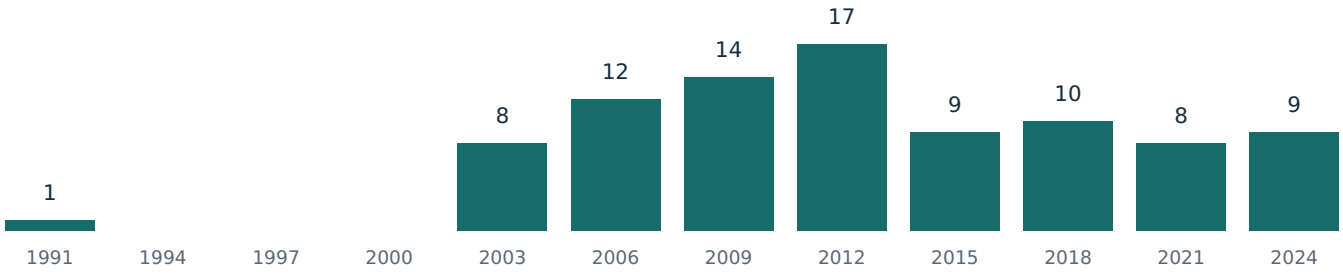
Darren J Moore

A publication record at a glance

89	16,982	51
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



1 articles have no publication year in the database.

MOST CITED IN THIS LIST

Guidelines for the Use and Interpretation of Assays for Monitoring Autophagy (3rd Edition) — 4,832
2016 Autophagy

PINK1-Dependent Recruitment of Parkin to Mitochondria in Mitophagy — 1,564
2010 Proceedings of the National Academy of Sciences of the United States of America

Molecular Pathophysiology of Parkinson's Disease. — 1,187
2005 Annual Review of Neuroscience

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Ordered by publication year, newest first

2026

01 LRRK2 Regulates ArfGAP1 Membrane Localization, Activity and Neuronal Integrity via Phosphorylation Within Its Lipid-Sensing ALPS2 Motif

Frontiers in Molecular Neuroscience · 19, 1786336

https://exaly.com/article/212928241

0 citations

02 Interaction of G2019S LRRK2 and Metabolic Syndrome in a Two-Hit Mouse Model of Parkinson's Disease: LRRK2-Driven Systemic Depletion of Pyrimidine Nucleosides

Npj Parkinson's Disease

https://exaly.com/article/215836102

0 citations

03 Parkinson's Disease-Linked D620N Mutation Selectively Alters the Brain-Specific Protein Interactome of VPS35.

Neurobiology of Disease · 229, 107593

https://exaly.com/article/218133048

0 citations

2025

04 Aging, Cellular Senescence and Parkinson's Disease

Journal of Parkinson's Disease · 15, 239-254

https://exaly.com/article/197388732

48 citations

05 Pathological α-Synuclein Elicits Granulovacuolar Degeneration Independent of Tau

Translational Neurodegeneration · 14, 31

https://exaly.com/article/202067325

3 citations

2024

06 VPS35 And Retromer Dysfunction in Parkinson's Disease

Philosophical Transactions of the Royal Society B: Biological Sciences · 379, 20220384

https://exaly.com/article/176458194

23 citations

07 Adult-Onset Deletion of ATP13A2 in Mice Induces Progressive Nigrostriatal Pathway Dopaminergic Degeneration and Lysosomal Abnormalities

Npj Parkinson's Disease · 10, 1-12

https://exaly.com/article/187512411

17 citations

08 Heterozygous Loss of Engrailed-1 and α-Synucleinopathy (En1/SYN): A Dual-Hit Preclinical Mouse Model of Parkinson's Disease, Analyzed With Artificial Intelligence

Neurobiology of Disease · 200, 106647

https://exaly.com/article/188415697

2 citations

Ordered by publication year, newest first

2024 / continued

09 Neuropathology in an α-Synuclein Preformed Fibril Mouse Model Occurs Independent of the Parkinson's Disease-Linked Lysosomal ATP13A2 Protein

12 citations

Neurobiology of Disease · 202, 106701

https://exaly.com/article/193692998

2023

10 VPS35 And α-Synuclein Fail to Interact to Modulate Neurodegeneration in Rodent Models of Parkinson’s Disease

10 citations

Molecular Neurodegeneration · 18, 1-20

https://exaly.com/article/166893727

11 Hippocampal Subfield Vulnerability to α-Synuclein Pathology Precedes Neurodegeneration and Cognitive Dysfunction

25 citations

Npj Parkinson's Disease · 9, 1-11

https://exaly.com/article/167356149

12 Formation of Templated Inclusions in a Forebrain α-Synuclein Mouse Model Is Independent of LRRK2

4 citations

Neurobiology of Disease · 188, 106338

https://exaly.com/article/171743690

2022

13 Understanding the Contributions of VPS35 and the Retromer in Neurodegenerative Disease

44 citations

Neurobiology of Disease · 170, 105768

https://exaly.com/article/145860008

14 Evaluation of Current Methods to Detect Cellular Leucine-Rich Repeat Kinase 2 (LRRK2) Kinase Activity

14 citations

Journal of Parkinson's Disease · 12, 1423-1447

https://exaly.com/article/146247916

2021

15 Neuronal VPS35 Deletion Induces Spinal Cord Motor Neuron Degeneration and Early Post-Natal Lethality.

18 citations

Brain Communications · 3, fcab208

https://exaly.com/article/78482184

16 Multiple Genetic Pathways Regulating Lifespan Extension Are Neuroprotective in a G2019S LRRK2 Nematode Model of Parkinson's Disease

13 citations

Neurobiology of Disease · 151, 105267

https://exaly.com/article/80113915

Ordered by publication year, newest first

2021 / continued

17 **Mechanisms of VPS35-Mediated Neurodegeneration in Parkinson's Disease**
18 citations
International Review of Movement Disorders · 2, 221-244
https://exaly.com/article/123703431

2020

18 **LRRK2 And the Endolysosomal System in Parkinson’s Disease**
99 citations
Journal of Parkinson's Disease · 10, 1271-1291
https://exaly.com/article/75540746

19 **LRRK2 And Protein Aggregation in Parkinson’s Disease: Insights From Animal Models**
22 citations
Frontiers in Neuroscience · 14, 558161
https://exaly.com/article/75889033

20 **Dopaminergic Neurodegeneration Induced by Parkinson's Disease-Linked G2019S LRRK2 Is Dependent on Kinase and GTPase Activity**
64 citations
Proceedings of the National Academy of Sciences of the United States of America · 117, 17296-17307
https://exaly.com/article/77111202

21 **Endosomal Sorting Pathways in the Pathogenesis of Parkinson's Disease**
20 citations
Progress in Brain Research · 252, 271-306
https://exaly.com/article/77532664

2019

22 **Time Course and Magnitude of Alpha-Synuclein Inclusion Formation and Nigrostriatal Degeneration in the Rat Model of Synucleinopathy Triggered by Intrastriatal α-Synuclein Preformed Fibrils**
94 citations
Neurobiology of Disease · 130, 104525
https://exaly.com/article/72241082

23 **Parkinson’s Disease-Linked D620N VPS35 Knockin Mice Manifest Tau Neuropathology and Dopaminergic Neurodegeneration**
92 citations
Proceedings of the National Academy of Sciences of the United States of America · 116, 5765-5774
https://exaly.com/article/73434495

24 **Pathogenic Alpha-Synuclein Aggregates Preferentially Bind to Mitochondria and Affect Cellular Respiration**
179 citations
Acta Neuropathologica Communications · 7, 1-14
https://exaly.com/article/73526299

Ordered by publication year, newest first

2018

25 **G2019S LRRK2 Enhances the Neuronal Transmission of Tau in the Mouse Brain.**
Human Molecular Genetics · 27, 120-134
https://exaly.com/article/69215933
41 citations

26 **Deciphering the Role of VPS35 in Parkinson's Disease**
Journal of Neuroscience Research · 96, 1339-1340
https://exaly.com/article/71055120
4 citations

27 **Parkin Mediates the Ubiquitination of VPS35 and Modulates Retromer-Dependent Endosomal Sorting**
Human Molecular Genetics · 27, 3189-3205
https://exaly.com/article/71725801
63 citations

2017

28 **Parkin Functionally Interacts With PGC-1α to Preserve Mitochondria and Protect Dopaminergic Neurons**
Human Molecular Genetics · 26, 582-598
https://exaly.com/article/65924115
67 citations

29 **Mechanisms of LRRK2-Dependent Neurodegeneration: Role of Enzymatic Activity and Protein Aggregation**
Biochemical Society Transactions · 45, 163-172
https://exaly.com/article/66036130
58 citations

30 **VPS35, The Retromer Complex and Parkinson’s Disease**
Journal of Parkinson's Disease · 7, 219-233
https://exaly.com/article/66089256
156 citations

31 **Understanding the GTPase Activity of LRRK2: Regulation, Function, and Neurotoxicity**
Advances in Neurobiology · 14, 71-88
https://exaly.com/article/66642226
54 citations

2016

32 **Ubiqutination via K27 and K29 Chains Signals Aggregation and Neuronal Protection of LRRK2 by WSB1**
Nature Communications · 7, 1-11
https://exaly.com/article/64720580
73 citations

33 **Human R1441C LRRK2 Regulates the Synaptic Vesicle Proteome and Phosphoproteome in a Drosophila Model of Parkinson's Disease.**
Human Molecular Genetics · 25, 5365-5382
https://exaly.com/article/64799039
82 citations

Ordered by publication year, newest first

2016 / continued

34 Guidelines for the Use and Interpretation of Assays for Monitoring Autophagy (3rd Edition)

4,832 citations

Autophagy · 12, 1-222

https://exaly.com/article/65366401

2015

35 Adenoviral-Mediated Expression of G2019S LRRK2 Induces Striatal Pathology in a Kinase-Dependent Manner in a Rat Model of Parkinson's Disease

46 citations

Neurobiology of Disease · 77, 49-61

https://exaly.com/article/62372461

36 α-Synuclein-Induced Dopaminergic Neurodegeneration in a Rat Model of Parkinson's Disease Occurs Independent of ATP13A2 (PARK9)

39 citations

Neurobiology of Disease · 73, 229-243

https://exaly.com/article/62857666

2014

37 Functional Interaction of Parkinson's Disease-Associated LRRK2 With Members of the Dynamin GTPase Superfamily.

130 citations

Human Molecular Genetics · 23, 2055-77

https://exaly.com/article/57666753

38 Modeling LRRK2 Pathobiology in Parkinson’s Disease: From Yeast to Rodents

17 citations

Current Topics in Behavioral Neurosciences · 22, 331-368

https://exaly.com/article/57961275

39 Parkinson's Disease-Linked Mutations in VPS35 Induce Dopaminergic Neurodegeneration.

140 citations

Human Molecular Genetics · 23, 4621-38

https://exaly.com/article/58194879

40 A Parkinson's Disease Gene Regulatory Network Identifies the Signaling Protein RGS2 as a Modulator of LRRK2 Activity and Neuronal Toxicity.

51 citations

Human Molecular Genetics · 23, 4887-905

https://exaly.com/article/58928842

41 Conditional Expression of Parkinson's Disease-Related R1441C LRRK2 in Midbrain Dopaminergic Neurons of Mice Causes Nuclear Abnormalities Without Neurodegeneration

71 citations

Neurobiology of Disease · 71, 345-358

https://exaly.com/article/59543559

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2013

42 LRRK2 Secretion in Exosomes Is Regulated by 14-3-3. 164 citations
Human Molecular Genetics · 22, 4988-5000
https://exaly.com/article/55160420

43 GTPase Activity Regulates Kinase Activity and Cellular Phenotypes of Parkinson's Disease-Associated LRRK2. 135 citations
Human Molecular Genetics · 22, 1140-56
https://exaly.com/article/55436187

44 Divergent α-Synuclein Solubility and Aggregation Properties in G2019S LRRK2 Parkinson's Disease Brains With Lewy Body Pathology Compared to Idiopathic Cases 47 citations
Neurobiology of Disease · 58, 183-190
https://exaly.com/article/55565391

45 Contribution of GTPase Activity to LRRK2-Associated Parkinson Disease 53 citations
Small GTPases · 4, 164-70
https://exaly.com/article/56812883

2012

46 GTPase Activity and Neuronal Toxicity of Parkinson's Disease–Associated LRRK2 Is Regulated by ArfGAP1 132 citations
PLoS Genetics · 8, e1002526
https://exaly.com/article/52246552

47 PARK9-Associated ATP13A2 Localizes to Intracellular Acidic Vesicles and Regulates Cation Homeostasis and Neuronal Integrity 163 citations
Human Molecular Genetics · 21, 1725-1743
https://exaly.com/article/52436668

48 Neurodegenerative Phenotypes in an A53T α-Synuclein Transgenic Mouse Model Are Independent of LRRK2 96 citations
Human Molecular Genetics · 21, 2420-2431
https://exaly.com/article/52750392

49 Mitochondrial Dysfunction in Genetic Animal Models of Parkinson's Disease 84 citations
Antioxidants and Redox Signaling · 16, 896-919
https://exaly.com/article/53758075

50 α-Synuclein in Central Nervous System and From Erythrocytes, Mammalian Cells, and Escherichia coli Exists Predominantly as Disordered Monomer 516 citations
Journal of Biological Chemistry · 287, 15345-15364
https://exaly.com/article/54309212

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2012 / continued

51 Mechanisms of LRRK2-Mediated Neurodegeneration
64 citations
Current Neurology and Neuroscience Reports · 12, 251-260
https://exaly.com/article/54350843

52 Common Pathogenic Effects of Missense Mutations in the P-Type ATPase ATP13A2 (PARK9) Associated With Early-Onset Parkinsonism
61 citations
PLoS ONE · 7, e39942
https://exaly.com/article/86983244

53 Phosphorylation of 4E-BP1 in the Mammalian Brain Is Not Altered by LRRK2 Expression or Pathogenic Mutations
41 citations
PLoS ONE · 7, e47784
https://exaly.com/article/86986776

2011

54 Dopaminergic Neuronal Loss, Reduced Neurite Complexity and Autophagic Abnormalities in Transgenic Mice Expressing G2019S Mutant LRRK2
369 citations
PLoS ONE · 6, e18568
https://exaly.com/article/50672994

55 Localization of MAP1-LC3 in Vulnerable Neurons and Lewy Bodies in Brains of Patients With Dementia With Lewy Bodies.
60 citations
Journal of Neuropathology and Experimental Neurology · 70, 264-80
https://exaly.com/article/50799852

56 Parkin Promotes the Ubiquitination and Degradation of the Mitochondrial Fusion Factor Mitofusin 1.
223 citations
Journal of Neurochemistry · 118, 636-45
https://exaly.com/article/50981521

57 Genetic Mouse Models of Neurodegenerative Diseases
42 citations
Progress in Molecular Biology and Translational Science · 100, 419-482
https://exaly.com/article/51649776

58 A Rat Model of Progressive Nigral Neurodegeneration Induced by the Parkinson's Disease-Associated G2019S Mutation in LRRK2
149 citations
Journal of Neuroscience · 31, 907-912
https://exaly.com/article/52133818

59 Parkin Reinvents Itself to Regulate Fatty Acid Metabolism by Tagging CD36
25 citations
Journal of Clinical Investigation · 121, 3389-3392
https://exaly.com/article/86371721

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2010

60 **Reevaluation of Phosphorylation Sites in the Parkinson Disease-Associated Leucine-Rich Repeat Kinase 2**
58 citations
Journal of Biological Chemistry · 285, 29569-29576
https://exaly.com/article/49061947

61 **PINK1-Dependent Recruitment of Parkin to Mitochondria in Mitophagy**
1,564 citations
Proceedings of the National Academy of Sciences of the United States of America · 107, 378-383
https://exaly.com/article/49071297

62 **GTPase Activity Plays a Key Role in the Pathobiology of LRRK2**
190 citations
PLoS Genetics · 6, e1000902
https://exaly.com/article/49122295

63 **S1-02-01: Experimental Models of LRRK2 Dysfunction in Parkinson's Disease**
0 citations
Alzheimer's and Dementia · 6, S65
https://exaly.com/article/49626622

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64 **CHIP Regulates Leucine-Rich Repeat Kinase-2 Ubiquitination, Degradation, and Toxicity**
207 citations
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65 **Conditional Transgenic Mice Expressing C-Terminally Truncated Human α-Synuclein (αSyn119) Exhibit Reduced Striatal Dopamine Without Loss of Nigrostriatal Pathway Dopaminergic Neurons**
90 citations
Molecular Neurodegeneration · 4, 1-14
https://exaly.com/article/46304616

66 **Revelations and Revolutions in the Understanding of Parkinson's Disease**
3 citations
Biochimica Et Biophysica Acta - Molecular Basis of Disease · 1792, 585-586
https://exaly.com/article/46687204

67 **Abnormal Localization of Leucine-Rich Repeat Kinase 2 to the Endosomal-Lysosomal Compartment in Lewy Body Disease.**
77 citations
Journal of Neuropathology and Experimental Neurology · 68, 994-1005
https://exaly.com/article/47354366

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68 **Value of Genetic Models in Understanding the Cause and Mechanisms of Parkinson's Disease**
46 citations
Current Neurology and Neuroscience Reports · 8, 288-296
https://exaly.com/article/43293651

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2008 / continued

69 **Parkin Mediates the Degradation-Independent Ubiquitination of Hsp70.** 95 citations
Journal of Neurochemistry · 105, 1806-19
https://exaly.com/article/43686531

70 **The Biology and Pathobiology of LRRK2: Implications for Parkinson's Disease** 27 citations
Parkinsonism and Related Disorders · 14, S92-S98
https://exaly.com/article/44027340

71 **The Chaperone Activity of Heat Shock Protein 90 Is Critical for Maintaining the Stability of Leucine-Rich Repeat Kinase 2** 184 citations
Journal of Neuroscience · 28, 3384-3391
https://exaly.com/article/44539220

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72 **Parkinson's Disease-Associated Mutations in LRRK2 Link Enhanced GTP-Binding and Kinase Activities to Neuronal Toxicity** 556 citations
Human Molecular Genetics · 16, 223-232
https://exaly.com/article/41735476

73 **Expression and Localization of Parkinson's Disease-Associated Leucine-Rich Repeat Kinase 2 in the Mouse Brain.** 106 citations
Journal of Neurochemistry · 100, 368-81
https://exaly.com/article/42887868

74 **Dynamic and Redundant Regulation of LRRK2 and LRRK1 Expression** 140 citations
BMC Neuroscience · 8, 1-11
https://exaly.com/article/42925918

75 **Localization of Parkinson’s Disease-Associated LRRK2 in Normal and Pathological Human Brain** 144 citations
Brain Research · 1155, 208-219
https://exaly.com/article/42929299

2006

76 **Parkin: A Multifaceted Ubiquitin Ligase** 113 citations
Biochemical Society Transactions · 34, 749-753
https://exaly.com/article/40100052

77 **Detrimental Deletions: Mitochondria, Aging and Parkinson's Disease** 33 citations
BioEssays · 28, 963-967
https://exaly.com/article/40838086

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78 Localization of LRRK2 to Membranous and Vesicular Structures in Mammalian Brain
498 citations
Annals of Neurology · 60, 557-569
https://exaly.com/article/40875689

79 Lessons From Drosophila Models of DJ-1 Deficiency
30 citations
Science of Aging Knowledge Environment: SAGE KE · 2006, pe2
https://exaly.com/article/85872064

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80 Association of DJ-1 and Parkin Mediated by Pathogenic DJ-1 Mutations and Oxidative Stress.
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Human Molecular Genetics · 14, 71-84
https://exaly.com/article/38775561

81 Leucine-Rich Repeat Kinase 2 (LRRK2) Interacts With Parkin, and Mutant LRRK2 Induces Neuronal Degeneration
400 citations
Proceedings of the National Academy of Sciences of the United States of America · 102, 18676-18681
https://exaly.com/article/38955331

82 Mitochondrial Localization of the Parkinson's Disease Related Protein DJ-1: Implications for Pathogenesis.
394 citations
Human Molecular Genetics · 14, 2063-73
https://exaly.com/article/39239398

83 Molecular Pathophysiology of Parkinson's Disease.
1,187 citations
Annual Review of Neuroscience · 28, 57-87
https://exaly.com/article/39313632

84 Parkinson's Disease-Associated Mutations in Leucine-Rich Repeat Kinase 2 Augment Kinase Activity
1,154 citations
Proceedings of the National Academy of Sciences of the United States of America · 102, 16842-16847
https://exaly.com/article/39314221

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85 Role for the Ubiquitin-Proteasome System in Parkinson’s Disease and Other Neurodegenerative Brain Amyloidoses
51 citations
NeuroMolecular Medicine · 4, 95-108
https://exaly.com/article/34858204

86 Genetics of Parkinson's Disease: What Do Mutations in DJ-1 Tell Us?
16 citations
Annals of Neurology · 54, 281-282
https://exaly.com/article/35066680

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2003 / continued

87 **A Missense Mutation (L166P) in DJ-1, Linked to Familial Parkinson's Disease, Confers Reduced Protein Stability and Impairs Homo-Oligomerization.**

Journal of Neurochemistry · 87, 1558-67

https://exaly.com/article/35267416

207 citations

1991

88 **Sterol Biochemistry in Filamentous Fungi: A Coming of Age**

Biochemical Society Transactions · 19, 769-774

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6 citations

Year unavailable

89 **Title unavailable**

Journal unavailable

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