Sonia Gandhi

List of Publications by Year
in descending order

36	4,422	186265 28	330143 37
papers	citations	h-index	g-index

41	41	41	7618
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanism of Oxidative Stress in Neurodegeneration. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-11.	4.0	680
2	PINK1-Associated Parkinson's Disease Is Caused by Neuronal Vulnerability to Calcium-Induced Cell Death. Molecular Cell, 2009, 33, 627-638.	9.7	584
3	Î±-synuclein oligomers interact with ATP synthase and open the permeability transition pore in Parkinsonâ€™s disease. Nature Communications, 2018, 9, 2293.	12.8	351
4	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson's Disease. Antioxidants and Redox Signaling, 2016, 24, 376-391.	5.4	266
5	Pandemic peak SARS-CoV-2 infection and seroconversion rates in London frontline health-care workers. Lancet, The, 2020, 396, e6-e7.	13.7	196
6	Molecular pathogenesis of Parkinson's disease. Human Molecular Genetics, 2005, 14, 2749-2755.	2.9	187
7	Kinetic model of the aggregation of alpha-synuclein provides insights into prion-like spreading. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1206-15.	7.1	181
8	Altered cleavage and localization of PINK1 to aggresomes in the presence of proteasomal stress. Journal of Neurochemistry, 2006, 98, 156-169.	3.9	146
9	Progressive Motor Neuron Pathology and the Role of Astrocytes in a Human Stem Cell Model of VCP-Related ALS. Cell Reports, 2017, 19, 1739-1749.	6.4	146
10	Monomeric Alpha-Synuclein Exerts a Physiological Role on Brain ATP Synthase. Journal of Neuroscience, 2016, 36, 10510-10521.	3.6	142
11	Alpha synuclein aggregation drives ferroptosis: an interplay of iron, calcium and lipid peroxidation. Cell Death and Differentiation, 2020, 27, 2781-2796.	11.2	142
12	Calcium is a key factor in Î±-synuclein induced neurotoxicity. Journal of Cell Science, 2016, 129, 1792-801.	2.0	136
13	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinsonâ€™s disease. Nature Cell Biology, 2014, 16, 157-166.	10.3	119
14	A Novel Prion Disease Associated with Diarrhea and Autonomic Neuropathy. New England Journal of Medicine, 2013, 369, 1904-1914.	27.0	113
15	Mitochondrial dysfunction in Parkinsonian mesenchymal stem cells impairs differentiation. Redox Biology, 2018, 14, 474-484.	9.0	104
16	Single-Molecule Imaging of Individual Amyloid Protein Aggregates in Human Biofluids. ACS Chemical Neuroscience, 2016, 7, 399-406.	3.5	99
17	Crucial role of protein oligomerization in the pathogenesis of Alzheimer's and Parkinson's diseases. FEBS Journal, 2018, 285, 3631-3644.	4.7	98
18	Ultrasensitive Measurement of Ca²⁺ Influx into Lipid Vesicles Induced by Protein Aggregates. Angewandte Chemie - International Edition, 2017, 56, 7750-7754.	13.8	72

#	Article	IF	Citations
19	Dopamine Induced Neurodegeneration in a PINK1 Model of Parkinson's Disease. PLoS ONE, 2012, 7, e37564.	2.5	66
20	Nanobodies raised against monomeric É‘-synuclein inhibit fibril formation and destabilize toxic oligomeric species. BMC Biology, 2017, 15, 57.	3.8	61
21	Omicron neutralising antibodies after third COVID-19 vaccine dose in patients with cancer. Lancet, The, 2022, 399, 905-907.	13.7	60
22	Beta amyloid aggregates induce sensitised TLR4 signalling causing long-term potentiation deficit and ratÂneuronal cell death. Communications Biology, 2020, 3, 79.	4.4	55
23	Nanoscopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. ChemBioChem, 2018, 19, 2033-2038.	2.6	52
24	A single cell high content assay detects mitochondrial dysfunction in iPSC-derived neurons with mutations in SNCA. Scientific Reports, 2018, 8, 9033.	3.3	50
25	LRRK2 deficiency induced mitochondrial Ca2+ efflux inhibition can be rescued by Na+/Ca2+/Li+ exchanger upregulation. Cell Death and Disease, 2019, 10, 265.	6.3	50
26	Immune responses following third COVID-19 vaccination are reduced in patients with hematological malignancies compared to patients with solid cancer. Cancer Cell, 2022, 40, 114-116.	16.8	50
27	Arachidonic acid mediates the formation of abundant alpha-helical multimers of alpha-synuclein. Scientific Reports, 2016, 6, 33928.	3.3	49
28	Optical Structural Analysis of Individual Î±â€Synuclein Oligomers. Angewandte Chemie - International Edition, 2018, 57, 4886-4890.	13.8	40
29	Dissecting the Phenotype and Genotype of <scp>PLA2G6</scp>â€Related Parkinsonism. Movement Disorders, 2022, 37, 148-161.	3.9	32
30	Mutations in valosin-containing protein (VCP) decrease ADP/ATP translocation across the mitochondrial membrane and impair energy metabolism in human neurons. Journal of Biological Chemistry, 2017, 292, 8907-8917.	3.4	27
31	Inhibiting the Ca 2+ Influx Induced by Human CSF. Cell Reports, 2017, 21, 3310-3316.	6.4	20
32	Mutations and mechanism: howPINK1may contribute to risk of sporadic Parkinsonâ€™s disease. Brain, 2017, 140, 2-5.	7.6	12
33	Molecular pathogenesis of Parkinson's disease. Human Molecular Genetics, 2005, 14 Spec No. 2, 2749-2755.	2.9	12
34	Ultrasensitive Measurement of Ca²⁺ Influx into Lipid Vesicles Induced by Protein Aggregates. Angewandte Chemie, 2017, 129, 7858-7862.	2.0	9
35	The Future of Incretin-Based Approaches for Neurodegenerative Diseases in Older Adults: Which to Choose? A Review of their Potential Efficacy and Suitability. Drugs and Aging, 2021, 38, 355-373.	2.7	8
36	Optical Structural Analysis of Individual Î±â€Synuclein Oligomers. Angewandte Chemie, 2018, 130, 4980-4984.	2.0	0