Stuart A Lipton

List of Publications by Citations

121 papers	19,657 citations	57 h-index	140 g-index
176 ext. papers	22,120 ext. citations	14.2 avg, IF	6.72 L-index

#	Paper	IF	Citations
121	A redox-based mechanism for the neuroprotective and neurodestructive effects of nitric oxide and related nitroso-compounds. *Nature*, **1993**, 364, 626-32	50.4	2254
120	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death and Differentiation*, **2018**, 25, 486-541	12.7	2160
119	Pathways to neuronal injury and apoptosis in HIV-associated dementia. *Nature*, **2001**, 410, 988-94	50.4	1048
118	S-nitrosylation of matrix metalloproteinases: signaling pathway to neuronal cell death. *Science*, **2002**, 297, 1186-90	33.3	834
117	S-nitrosylation of Drp1 mediates beta-amyloid-related mitochondrial fission and neuronal injury. *Science*, **2009**, 324, 102-5	33.3	823
116	Erythropoietin-mediated neuroprotection involves cross-talk between Jak2 and NF-kappaB signalling cascades. *Nature*, **2001**, 412, 641-7	50.4	804
115	S-nitrosylated protein-disulphide isomerase links protein misfolding to neurodegeneration. *Nature*, **2006**, 441, 513-7	50.4	739
114	Effect of nitric oxide production on the redox modulatory site of the NMDA receptor-channel complex. *Neuron*, **1992**, 8, 1087-99	13.9	693
113	Paradigm shift in neuroprotection by NMDA receptor blockade: memantine and beyond. *Nature Reviews Drug Discovery*, **2006**, 5, 160-70	64.1	657
112	(S)NO signals: translocation, regulation, and a consensus motif. *Neuron*, **1997**, 18, 691-6	13.9	623
111	Nitric oxide-induced mitochondrial fission is regulated by dynamin-related GTPases in neurons. *EMBO Journal*, **2006**, 25, 3900-11	13	552
110	Increased NMDA current and spine density in mice lacking the NMDA receptor subunit NR3A. *Nature*, **1998**, 393, 377-81	50.4	503
109	Nitrosative stress linked to sporadic Parkinson's disease: S-nitrosylation of parkin regulates its E3 ubiquitin ligase activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10810-4	11.5	449
108	Molecular basis of NMDA receptor-coupled ion channel modulation by S-nitrosylation. *Nature Neuroscience*, **2000**, 3, 15-21	25.5	372
107	A induces astrocytic glutamate release, extrasynaptic NMDA receptor activation, and synaptic loss. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E2518-27	11.5	356
106	Isogenic human iPSC Parkinson's model shows nitrosative stress-induced dysfunction in MEF2-PGC1 transcription. *Cell*, **2013**, 155, 1351-64	56.2	314
105	Carnosic acid, a catechol-type electrophilic compound, protects neurons both in vitro and in vivo through activation of the Keap1/Nrf2 pathway via S-alkylation of targeted cysteines on Keap1. *Journal of Neurochemistry*, **2008**, 104, 1116-31	6	309

104	Cysteine regulation of protein function--as exemplified by NMDA-receptor modulation. *Trends in Neurosciences*, **2002**, 25, 474-80	13.3	308
103	Aberrant protein s-nitrosylation in neurodegenerative diseases. *Neuron*, **2013**, 78, 596-614	13.9	258
102	Pathologically activated therapeutics for neuroprotection. *Nature Reviews Neuroscience*, **2007**, 8, 803-8	13.5	211
101	Neuronal protection and destruction by NO. *Cell Death and Differentiation*, **1999**, 6, 943-51	12.7	190
100	Nrf2/ARE-mediated antioxidant actions of pro-electrophilic drugs. *Free Radical Biology and Medicine* , **2013**, 65, 645-657	7.8	183
99	Dueling activities of AIF in cell death versus survival: DNA binding and redox activity. *Cell*, **2002**, 111, 147-50	56.2	158
98	Suppression of neuronal apoptosis by S-nitrosylation of caspases. *Neuroscience Letters*, **1997**, 236, 139-42	3.3	151
97	Pathologically-activated therapeutics for neuroprotection: mechanism of NMDA receptor block by memantine and S-nitrosylation. *Current Drug Targets*, **2007**, 8, 621-32	3	151
96	Transnitrosylation of XIAP regulates caspase-dependent neuronal cell death. *Molecular Cell*, **2010**, 39, 184-95	17.6	144
95	Role of caspases in N-methyl-D-aspartate-induced apoptosis in cerebrocortical neurons. *Journal of Neurochemistry*, **1998**, 71, 946-59	6	138
94	Redox regulation of neuronal survival mediated by electrophilic compounds. *Trends in Neurosciences*, **2007**, 30, 37-45	13.3	133
93	S-Nitrosylation activates Cdk5 and contributes to synaptic spine loss induced by beta-amyloid peptide. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 14330-5	11.5	132
92	On-off system for PI3-kinase-Akt signaling through S-nitrosylation of phosphatase with sequence homology to tensin (PTEN). *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10349-54	11.5	125
91	Involvement of activated caspase-3-like proteases in N-methyl-D-aspartate-induced apoptosis in cerebrocortical neurons. *Journal of Neurochemistry*, **2000**, 74, 134-42	6	121
90	Oxidation of the cysteine-rich regions of parkin perturbs its E3 ligase activity and contributes to protein aggregation. *Molecular Neurodegeneration*, **2011**, 6, 34	19	114
89	Cytoskeletal breakdown and apoptosis elicited by NO donors in cerebellar granule cells require NMDA receptor activation. *Journal of Neurochemistry*, **1996**, 67, 2484-93	6	112
88	Emerging role of protein-protein transnitrosylation in cell signaling pathways. *Antioxidants and Redox Signaling*, **2013**, 18, 239-49	8.4	111
87	NO signaling and S-nitrosylation regulate PTEN inhibition in neurodegeneration. *Molecular Neurodegeneration*, **2010**, 5, 49	19	109

86	S-nitrosylation of Drp1 links excessive mitochondrial fission to neuronal injury in neurodegeneration. *Mitochondrion*, **2010**, 10, 573-8	4.9	108
85	Aberrant protein S-nitrosylation contributes to the pathophysiology of neurodegenerative diseases. *Neurobiology of Disease*, **2015**, 84, 99-108	7.5	104
84	HIV-related neurotoxicity. *Brain Pathology*, **1991**, 1, 193-9	6	100
83	Protein S-Nitrosylation as a Therapeutic Target for Neurodegenerative Diseases. *Trends in Pharmacological Sciences*, **2016**, 37, 73-84	13.2	99
82	Small molecules enable OCT4-mediated direct reprogramming into expandable human neural stem cells. *Cell Research*, **2014**, 24, 126-9	24.7	93
81	The coat protein gp120 of HIV-1 inhibits astrocyte uptake of excitatory amino acids via macrophage arachidonic acid. *European Journal of Neuroscience*, **1995**, 7, 2502-7	3.5	91
80	HIV-related neuronal injury. Potential therapeutic intervention with calcium channel antagonists and NMDA antagonists. *Molecular Neurobiology*, **1994**, 8, 181-96	6.2	90
79	Cardiolipin exposure on the outer mitochondrial membrane modulates α-synuclein. *Nature Communications*, **2018**, 9, 817	17.4	87
78	Hypoxia enhances S-nitrosylation-mediated NMDA receptor inhibition via a thiol oxygen sensor motif. *Neuron*, **2007**, 53, 53-64	13.9	86
77	Delayed administration of memantine prevents N-methyl-D-aspartate receptor-mediated neurotoxicity. *Annals of Neurology*, **1993**, 33, 403-7	9.4	83
76	Elevated glucose and oligomeric β-amyloid disrupt synapses via a common pathway of aberrant protein S-nitrosylation. *Nature Communications*, **2016**, 7, 10242	17.4	76
75	Possible role for memantine in protecting retinal ganglion cells from glaucomatous damage. *Survey of Ophthalmology*, **2003**, 48 Suppl 1, S38-46	6.1	76
74	Similarity of neuronal cell injury and death in AIDS dementia and focal cerebral ischemia: potential treatment with NMDA open-channel blockers and nitric oxide-related species. *Brain Pathology*, **1996**, 6, 507-17	6	76
73	S-Nitrosylation of PINK1 Attenuates PINK1/Parkin-Dependent Mitophagy in hiPSC-Based Parkinson's Disease Models. *Cell Reports*, **2017**, 21, 2171-2182	10.6	70
72	S-nitrosylation of critical protein thiols mediates protein misfolding and mitochondrial dysfunction in neurodegenerative diseases. *Antioxidants and Redox Signaling*, **2011**, 14, 1479-92	8.4	69
71	NMDA receptors, glial cells, and clinical medicine. *Neuron*, **2006**, 50, 9-11	13.9	68
70	Transnitrosylation from DJ-1 to PTEN attenuates neuronal cell death in parkinson's disease models. *Journal of Neuroscience*, **2014**, 34, 15123-31	6.6	65
69	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. *Cell Death and Differentiation*, **2018**, 25, 542-572	12.7	64

68	Mechanisms of hyperexcitability in Alzheimer's disease hiPSC-derived neurons and cerebral organoids vs isogenic controls. *ELife*, **2019**, 8,	8.9	62
67	Calcium channel antagonists and human immunodeficiency virus coat protein-mediated neuronal injury. *Annals of Neurology*, **1991**, 30, 110-4	9.4	59
66	Potential and current use of N-methyl-D-aspartate (NMDA) receptor antagonists in diseases of aging. *Drugs and Aging*, **2001**, 18, 717-24	4.7	57
65	S-Nitrosylation of parkin as a novel regulator of p53-mediated neuronal cell death in sporadic Parkinson's disease. *Molecular Neurodegeneration*, **2013**, 8, 29	19	56
64	Turning down, but not off. *Nature*, **2004**, 428, 473	50.4	54
63	Reprint of: Nrf2/ARE-mediated antioxidant actions of pro-electrophilic drugs. *Free Radical Biology and Medicine*, **2014**, 66, 45-57	7.8	52
62	Therapeutic advantage of pro-electrophilic drugs to activate the Nrf2/ARE pathway in Alzheimer's disease models. *Cell Death and Disease*, **2016**, 7, e2499	9.8	50
61	Regulation of the unfolded protein response via S-nitrosylation of sensors of endoplasmic reticulum stress. *Scientific Reports*, **2015**, 5, 14812	4.9	49
60	Protective effect of carnosic acid, a pro-electrophilic compound, in models of oxidative stress and light-induced retinal degeneration **2012**, 53, 7847-54		49
59	S-nitrosylation-mediated redox transcriptional switch modulates neurogenesis and neuronal cell death. *Cell Reports*, **2014**, 8, 217-28	10.6	48
58	Inflammatory mediators leading to protein misfolding and uncompetitive/fast off-rate drug therapy for neurodegenerative disorders. *International Review of Neurobiology*, **2007**, 82, 1-27	4.4	48
57	Potential effect of S-nitrosylated protein disulfide isomerase on mutant SOD1 aggregation and neuronal cell death in amyotrophic lateral sclerosis. *Molecular Neurobiology*, **2014**, 49, 796-807	6.2	47
56	Neuroprotective versus neurodestructive effects of NO-related species. *BioFactors*, **1998**, 8, 33-40	6.1	47
55	Recent advances in understanding NRF2 as a druggable target: development of pro-electrophilic and non-covalent NRF2 activators to overcome systemic side effects of electrophilic drugs like dimethyl fumarate. *F1000Research*, **2017**, 6, 2138	3.6	44
54	Neuroprotective and neurodestructive effects of nitric oxide and redox congeners. *Annals of the New York Academy of Sciences*, **1994**, 738, 382-7	6.5	44
53	Differential effects of synaptic and extrasynaptic NMDA receptors on A□nduced nitric oxide production in cerebrocortical neurons. *Journal of Neuroscience*, **2014**, 34, 5023-8	6.6	43
52	Dual neuroprotective pathways of a pro-electrophilic compound via HSF-1-activated heat-shock proteins and Nrf2-activated phase 2 antioxidant response enzymes. *Journal of Neurochemistry*, **2011**, 119, 569-78	6	43
51	Evidence for coassembly of mutant GABAC rho1 with GABAA gamma2S, glycine alpha1 and glycine alpha2 receptor subunits in vitro. *European Journal of Neuroscience*, **2000**, 12, 3137-45	3.5	38

50	S-Nitrosylation in neurogenesis and neuronal development. *Biochimica Et Biophysica Acta - General Subjects*, **2015**, 1850, 1588-93	4	37
49	Protection from cyanide-induced brain injury by the Nrf2 transcriptional activator carnosic acid. *Journal of Neurochemistry*, **2015**, 133, 898-908	6	34
48	Metformin inhibition of mitochondrial ATP and DNA synthesis abrogates NLRP3 inflammasome activation and pulmonary inflammation. *Immunity*, **2021**, 54, 1463-1477.e11	32.3	33
47	'SNO'-Storms Compromise Protein Activity and Mitochondrial Metabolism in Neurodegenerative Disorders. *Trends in Endocrinology and Metabolism*, **2017**, 28, 879-892	8.8	32
46	Experimental and potential future therapeutic approaches for HIV-1 associated dementia targeting receptors for chemokines, glutamate and erythropoietin. *Neurotoxicity Research*, **2005**, 8, 167-86	4.3	28
45	Expression of GABA(C) receptor rho1 and rho2 subunits during development of the mouse retina. *European Journal of Neuroscience*, **2000**, 12, 3575-82	3.5	28
44	Ratio of S-nitrosohomocyst(e)ine to homocyst(e)ine or other thiols determines neurotoxicity in rat cerebrocortical cultures. *Neuroscience Letters*, **1999**, 265, 103-6	3.3	28
43	Quantitative Analysis of Human Pluripotency and Neural Specification by In-Depth (Phospho)Proteomic Profiling. *Stem Cell Reports*, **2016**, 7, 527-542	8	28
42	Zonarol, a sesquiterpene from the brown algae Dictyopteris undulata, provides neuroprotection by activating the Nrf2/ARE pathway. *Biochemical and Biophysical Research Communications*, **2015**, 457, 718-22	3.4	26
41	Dysfunctional Mitochondrial Dynamics in the Pathophysiology of Neurodegenerative Diseases. *Journal of Cell Death*, **2013**, 6, 27-35	1	25
40	MEF2D haploinsufficiency downregulates the NRF2 pathway and renders photoreceptors susceptible to light-induced oxidative stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4048-E4056	11.5	24
39	Gelatinase activity imaged by activatable cell-penetrating peptides in cell-based and in vivo models of stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 188-200	7.3	22
38	Soluble synuclein-antibody complexes activate the NLRP3 inflammasome in hiPSC-derived microglia. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	22
37	Synuclein Oligomers Induce Glutamate Release from Astrocytes and Excessive Extrasynaptic NMDAR Activity in Neurons, Thus Contributing to Synapse Loss. *Journal of Neuroscience*, **2021**, 41, 2264-2273	6.6	21
36	Comment on "S-nitrosylation of parkin regulates ubiquitination and compromises parkin's protective function". *Science*, **2005**, 308, 1870; author reply 1870	33.3	20
35	Transcriptional profiling of MEF2-regulated genes in human neural progenitor cells derived from embryonic stem cells. *Genomics Data*, **2015**, 3, 24-27		19
34	A slowly inactivating K+ current in retinal ganglion cells from postnatal rat. *Visual Neuroscience*, **1992**, 8, 171-6	1.7	19
33	Nitric Oxide-Dependent Protein Post-Translational Modifications Impair Mitochondrial Function and Metabolism to Contribute to Neurodegenerative Diseases. *Antioxidants and Redox Signaling*, **2020**, 32, 817-833	8.4	19

32	7-Chlorokynurenate Ameliorates Neuronal Injury Mediated by HIV Envelope Protein gp120 in Rodent Retinal Cultures. *European Journal of Neuroscience*, **1992**, 4, 1411-1415	3.5	17
31	Prevention of classic migraine headache by digital massage of the superficial temporal arteries during visual aura. *Annals of Neurology*, **1986**, 19, 515-6	9.4	17
30	NitroSynapsin ameliorates hypersynchronous neural network activity in Alzheimer hiPSC models. *Molecular Psychiatry*, **2020**,	15.1	16
29	Signaling events in NMDA receptor-induced apoptosis in cerebrocortical cultures. *Annals of the New York Academy of Sciences*, **1999**, 893, 261-4	6.5	15
28	GABA-activated single channel currents in outside-out membrane patches from rat retinal ganglion cells. *Visual Neuroscience*, **1989**, 3, 275-9	1.7	15
27	The mouse as a model for neuropsychiatric drug development. *Current Biology*, **2018**, 28, R909-R914	6.3	15
26	Nrf2 and HSF-1 Pathway Activation via Hydroquinone-Based Proelectrophilic Small Molecules is Regulated by Electrochemical Oxidation Potential. *ASN Neuro*, **2015**, 7,	5.3	12
25	Noncanonical transnitrosylation network contributes to synapse loss in Alzheimer's disease. *Science* , **2021**, 371,	33.3	12
24	Type C botulinum toxin causes degeneration of motoneurons in vivo. *NeuroReport*, **2010**, 21, 14-18	1.7	11
23	Nitrosative Stress in the Nervous System: Guidelines for Designing Experimental Strategies to Study Protein S-Nitrosylation. *Neurochemical Research*, **2016**, 41, 510-4	4.6	10
22	Granulocyte-colony stimulating factor as a treatment for diabetic neuropathy in rat. *Molecular and Cellular Endocrinology*, **2015**, 414, 64-72	4.4	10
21	Potential Therapeutic Use of the Rosemary Diterpene Carnosic Acid for Alzheimer's Disease, Parkinson's Disease, and Long-COVID through NRF2 Activation to Counteract the NLRP3 Inflammasome.. *Antioxidants*, **2022**, 11,	7.1	10
20	S-nitrosylated TDP-43 triggers aggregation, cell-to-cell spread, and neurotoxicity in hiPSCs and in vivo models of ALS/FTD. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	10
19	Partnering with Big Pharma-What Academics Need to Know. *Cell*, **2016**, 165, 512-5	56.2	9
18	S-Nitrosylation Induces Structural and Dynamical Changes in a Rhodanese Family Protein. *Journal of Molecular Biology*, **2016**, 428, 3737-51	6.5	9
17	The critical role of membralin in postnatal motor neuron survival and disease. *ELife*, **2015**, 4,	8.9	8
16	Novel Therapeutic Approach for Excitatory/Inhibitory Imbalance in Neurodevelopmental and Neurodegenerative Diseases. *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 701-721	17.9	7
15	Protein S-nitrosylation and oxidation contribute to protein misfolding in neurodegeneration. *Free Radical Biology and Medicine*, **2021**, 172, 562-577	7.8	6

14	Protein Transnitrosylation Signaling Networks Contribute to Inflammaging and Neurodegenerative Disorders. *Antioxidants and Redox Signaling*, **2021**, 35, 531-550	8.4	6
13	Molecular Pathway to Protection From Age-Dependent Photoreceptor Degeneration in Mef2 Deficiency **2017**, 58, 3741-3749		5
12	Novel Direct Conversion of Microglia to Neurons. *Trends in Molecular Medicine*, **2019**, 25, 72-74	11.5	5
11	NitroSynapsin for the treatment of neurological manifestations of tuberous sclerosis complex in a rodent model. *Neurobiology of Disease*, **2019**, 127, 390-397	7.5	3
10	S-Nitrosylation of p62 Inhibits Autophagic Flux to Promote Synuclein Secretion and Spread in Parkinson's Disease and Lewy Body Dementia.. *Journal of Neuroscience*, **2022**,	6.6	3
9	Author response: Mechanisms of hyperexcitability in Alzheimer disease hiPSC-derived neurons and cerebral organoids vs isogenic controls **2019**,		2
8	Emerging hiPSC Models for Drug Discovery in Neurodegenerative Diseases. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
7	TCA cycle metabolic compromise due to an aberrant S-nitrosoproteome in HIV-associated neurocognitive disorder with methamphetamine use. *Journal of NeuroVirology*, **2021**, 27, 367-378	3.9	1
6	Targeted protein S-nitrosylation of ACE2 as potential treatment to prevent spread of SARS-CoV-2 infection. **2022**,		1
5	Redox Regulation of Protein Misfolding, Synaptic Damage, and Neuronal Loss in Neurodegenerative Diseases **2011**, 65-99		
4	Implications of Nitrosative Stress-Induced Protein Misfolding in Neurodegeneration145-152		
3	Perspective author's response: Uncompetitive/Fast Off-rate (UFO) mechanism of pathologically-activated neuroprotective drugs. *Nature Reviews Neuroscience*, **2007**, 8, 989-989	13.5	
2	Clinically tolerated NMDA receptor antagonists and newly cloned NMDA receptor subunits that mimic them **2002**, 72-78		
1	Inhibition of autophagic flux by S-nitrosylation of SQSTM1/p62 promotes neuronal secretion and cell-to-cell transmission of SNCA/Synuclein in Parkinson disease and Lewy body dementia **2022**, 1, 223-225		