

Peter Crouch

List of Publications by Year in descending order

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102
papers

5,718
citations

87886

38
h-index

82542

72
g-index

104
all docs

104
docs citations

104
times ranked

6925
citing authors

#	ARTICLE	IF	CITATIONS
1	TDP-43 Triggers Mitochondrial DNA Release via mPTP to Activate cGAS/STING in ALS. <i>Cell</i> , 2020, 183, 636-649.e18.	28.9	453
2	Tau-mediated iron export prevents ferroptotic damage after ischemic stroke. <i>Molecular Psychiatry</i> , 2017, 22, 1520-1530.	7.9	449
3	Copper-Dependent Inhibition of Human Cytochrome c Oxidase by a Dimeric Conformer of Amyloid- $\text{A}\beta$ 1-42. <i>Journal of Neuroscience</i> , 2005, 25, 672-679.	3.6	315
4	Increasing Cu bioavailability inhibits $\text{A}\beta$ oligomers and tau phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 381-386.	7.1	259
5	Mechanisms of $\text{A}\beta$ mediated neurodegeneration in Alzheimer's disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 181-198.	2.8	220
6	The Alzheimer's therapeutic PBT2 promotes amyloid β degradation and GSK3 phosphorylation via a metal chaperone activity. <i>Journal of Neurochemistry</i> , 2011, 119, 220-230.	3.9	167
7	Oral Treatment with Cull(atism) Increases Mutant SOD1 In Vivo but Protects Motor Neurons and Improves the Phenotype of a Transgenic Mouse Model of Amyotrophic Lateral Sclerosis. <i>Journal of Neuroscience</i> , 2014, 34, 8021-8031.	3.6	161
8	The hypoxia imaging agent Cull(atism) is neuroprotective and improves motor and cognitive functions in multiple animal models of Parkinson's disease. <i>Journal of Experimental Medicine</i> , 2012, 209, 837-854.	8.5	151
9	ALS-Associated TDP-43 Induces Endoplasmic Reticulum Stress, Which Drives Cytoplasmic TDP-43 Accumulation and Stress Granule Formation. <i>PLoS ONE</i> , 2013, 8, e81170.	2.5	141
10	Copper delivery to the CNS by CuATSM effectively treats motor neuron disease in SODG93A mice co-expressing the Copper-Chaperone-for-SOD. <i>Neurobiology of Disease</i> , 2016, 89, 1-9.	4.4	126
11	Endogenous TDP-43 localized to stress granules can subsequently form protein aggregates. <i>Neurochemistry International</i> , 2012, 60, 415-424.	3.8	125
12	Diacetylbis(N(4)-methylthiosemicarbazonato) Copper(II) (Cull(atism)) Protects against Peroxynitrite-induced Nitrosative Damage and Prolongs Survival in Amyotrophic Lateral Sclerosis Mouse Model. <i>Journal of Biological Chemistry</i> , 2011, 286, 44035-44044.	3.4	123
13	Metal Ionophore Treatment Restores Dendritic Spine Density and Synaptic Protein Levels in a Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2011, 6, e17669.	2.5	115
14	Therapeutic Redistribution of Metal Ions To Treat Alzheimer's Disease. <i>Accounts of Chemical Research</i> , 2012, 45, 1604-1611.	15.6	104
15	C-Jun N-terminal kinase controls TDP-43 accumulation in stress granules induced by oxidative stress. <i>Molecular Neurodegeneration</i> , 2011, 6, 57.	10.8	103
16	An impaired mitochondrial electron transport chain increases retention of the hypoxia imaging agent diacetylbis(4-methylthiosemicarbazonato)copper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 47-52.	7.1	101
17	Cu(atism) inhibits ferroptosis: Implications for treatment of neurodegenerative disease. <i>British Journal of Pharmacology</i> , 2020, 177, 656-667.	5.4	92
18	Restored degradation of the Alzheimer's amyloid β peptide by targeting amyloid formation. <i>Journal of Neurochemistry</i> , 2009, 108, 1198-1207.	3.9	85

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19	Therapeutic effects of Cu ^{II} (atsm) in the SOD1-G37R mouse model of amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013, 14, 586-590.	1.7	82
20	Superoxide Dismutase 1 in Health and Disease: How Frontline Antioxidant Becomes Neurotoxic. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9215-9246.	13.8	80
21	Mechanisms Controlling the Cellular Accumulation of Copper Bis(thiosemicarbazonato) Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 9594-9605.	4.0	76
22	Cull(atsm) improves the neurological phenotype and survival of SOD1G93A mice and selectively increases enzymatically active SOD1 in the spinal cord. <i>Scientific Reports</i> , 2017, 7, 42292.	3.3	70
23	The modulation of metal bioavailability as a therapeutic strategy for the treatment of Alzheimer's disease. <i>FEBS Journal</i> , 2007, 274, 3775-3783.	4.7	66
24	TDP-43 mutations causing amyotrophic lateral sclerosis are associated with altered expression of RNA-binding protein hnRNP K and affect the Nrf2 antioxidant pathway. <i>Human Molecular Genetics</i> , 2017, 26, 1732-1746.	2.9	62
25	Differential modulation of Alzheimer's disease amyloid β -peptide accumulation by diverse classes of metal ligands. <i>Biochemical Journal</i> , 2007, 407, 435-450.	3.7	58
26	Laser ablation-inductively coupled plasma-mass spectrometry imaging of white and gray matter iron distribution in Alzheimer's disease frontal cortex. <i>NeuroImage</i> , 2016, 137, 124-131.	4.2	57
27	Mild Oxidative Stress Induces Redistribution of BACE1 in Non-Apoptotic Conditions and Promotes the Amyloidogenic Processing of Alzheimer's Disease Amyloid Precursor Protein. <i>PLoS ONE</i> , 2013, 8, e61246.	2.5	55
28	Metal-deficient SOD1 in amyotrophic lateral sclerosis. <i>Journal of Molecular Medicine</i> , 2015, 93, 481-487.	3.9	51
29	Linker Histone H1 Binds to Disease Associated Amyloid-like Fibrils. <i>Journal of Molecular Biology</i> , 2006, 361, 493-505.	4.2	50
30	Mitochondria in Aging and Alzheimer's Disease. <i>Rejuvenation Research</i> , 2007, 10, 349-358.	1.8	50
31	Zinc induces depletion and aggregation of endogenous TDP-43. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1152-1161.	2.9	50
32	Kinase Inhibitor Screening Identifies Cyclin-Dependent Kinases and Glycogen Synthase Kinase 3 as Potential Modulators of TDP-43 Cytosolic Accumulation during Cell Stress. <i>PLoS ONE</i> , 2013, 8, e67433.	2.5	50
33	Phosphorylation of hnRNP K by cyclin-dependent kinase 2 controls cytosolic accumulation of TDP-43. <i>Human Molecular Genetics</i> , 2015, 24, 1655-1669.	2.9	48
34	Inhibition of TDP-43 Accumulation by Bis(thiosemicarbazonato)-Copper Complexes. <i>PLoS ONE</i> , 2012, 7, e42277.	2.5	44
35	The challenges of using a copper fluorescent sensor (CS1) to track intracellular distributions of copper in neuronal and glial cells. <i>Chemical Science</i> , 2012, 3, 2748.	7.4	43
36	A domain level interaction network of amyloid precursor protein and A β of Alzheimer's disease. <i>Proteomics</i> , 2010, 10, 2377-2395.	2.2	41

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37	Localized changes to glycogen synthase kinase-3 and collapsin response mediator protein-2 in the Huntington's disease affected brain. <i>Human Molecular Genetics</i> , 2014, 23, 4051-4063.	2.9	41
38	Copper-dependent inhibition of cytochrome c oxidase by A β 1-42 requires reduced methionine at residue 35 of the A β peptide. <i>Journal of Neurochemistry</i> , 2006, 99, 226-236.	3.9	40
39	Copper(II) complexes of hybrid hydroxyquinoline-thiosemicarbazone ligands: GSK3 β inhibition due to intracellular delivery of copper. <i>Dalton Transactions</i> , 2011, 40, 1338-1347.	3.3	39
40	Prion protein γ -cleavage characterizing a novel endoproteolytic processing event. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 667-683.	5.4	39
41	Neuroprotective Copper Bis(thiosemicarbazonato) Complexes Promote Neurite Elongation. <i>PLoS ONE</i> , 2014, 9, e90070.	2.5	39
42	The role of metals in modulating metalloprotease activity in the AD brain. <i>European Biophysics Journal</i> , 2008, 37, 315-321.	2.2	38
43	X-ray fluorescence imaging reveals subcellular biometal disturbances in a childhood neurodegenerative disorder. <i>Chemical Science</i> , 2014, 5, 2503-2516.	7.4	38
44	Circumventing the Crabtree Effect: A method to induce lactate consumption and increase oxidative phosphorylation in cell culture. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 79, 128-138.	2.8	38
45	Sustained Activation of Glial Cell Epidermal Growth Factor Receptor by Bis(thiosemicarbazonato) Metal Complexes Is Associated with Inhibition of Protein Tyrosine Phosphatase Activity. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 6606-6620.	6.4	37
46	Increased metal content in the TDP-43 ^{A315T} transgenic mouse model of frontotemporal lobar degeneration and amyotrophic lateral sclerosis. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 15.	3.4	37
47	Deregulation of subcellular biometal homeostasis through loss of the metal transporter, Zip7, in a childhood neurodegenerative disorder. <i>Acta Neuropathologica Communications</i> , 2014, 2, 25.	5.2	37
48	Therapeutic treatments for Alzheimer's disease based on metal bioavailability. <i>Drug News and Perspectives</i> , 2006, 19, 469.	1.5	37
49	Copper and zinc bis(thiosemicarbazonato) complexes with a fluorescent tag: synthesis, radiolabelling with copper-64, cell uptake and fluorescence studies. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 225-235.	2.6	36
50	N-acetylcysteine modulates glutamatergic dysfunction and depressive behavior in Huntington's disease. <i>Human Molecular Genetics</i> , 2016, 25, dww144.	2.9	34
51	Potential Diagnostic Imaging of Alzheimer's Disease with Copper-64 Complexes That Bind to Amyloid- β Plaques. <i>Inorganic Chemistry</i> , 2019, 58, 3382-3395.	4.0	34
52	Therapeutic Treatment of Alzheimer's Disease Using Metal Complexing Agents. <i>Recent Patents on CNS Drug Discovery</i> , 2007, 2, 180-187.	0.9	30
53	Metallo-complex activation of neuroprotective signalling pathways as a therapeutic treatment for Alzheimer's disease. <i>Molecular BioSystems</i> , 2009, 5, 134-142.	2.9	30
54	Editorial: Metals and neurodegeneration: restoring the balance. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 127.	3.4	30

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55	Clioquinol Promotes Cancer Cell Toxicity through Tumor Necrosis Factor α Release from Macrophages. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 324, 360-367.	2.5	28
56	Znll(atm) is protective in amyotrophic lateral sclerosis model mice via a copper delivery mechanism. <i>Neurobiology of Disease</i> , 2015, 81, 20-24.	4.4	28
57	Endogenous Cu in the central nervous system fails to satiate the elevated requirement for Cu in a mutant SOD1 mouse model of ALS. <i>Metallomics</i> , 2016, 8, 1002-1011.	2.4	28
58	Increased Zinc and Manganese in Parallel with Neurodegeneration, Synaptic Protein Changes and Activation of Akt/GSK3 Signaling in Ovine CLN6 Neuronal Ceroid Lipofuscinosis. <i>PLoS ONE</i> , 2013, 8, e58644.	2.5	28
59	Serum matrix metalloproteinase-9 activity is dysregulated with disease progression in the mutant SOD1 transgenic mice. <i>Neuromuscular Disorders</i> , 2010, 20, 260-266.	0.6	27
60	Altered biometal homeostasis is associated with CLN6 mRNA loss in mouse neuronal ceroid lipofuscinosis. <i>Biology Open</i> , 2013, 2, 635-646.	1.2	27
61	Deregulation of biometal homeostasis: the missing link for neuronal ceroid lipofuscinoses?. <i>Metallomics</i> , 2014, 6, 932-943.	2.4	27
62	Activation of epidermal growth factor receptor by metal-ligand complexes decreases levels of extracellular amyloid beta peptide. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 1901-1917.	2.8	26
63	Lipophilic adamantyl- or deferasirox-based conjugates of desferrioxamine B have enhanced neuroprotective capacity: implications for Parkinson disease. <i>Free Radical Biology and Medicine</i> , 2013, 60, 147-156.	2.9	26
64	Modification of Biodistribution and Brain Uptake of Copper Bis(thiosemicarbazonato) Complexes by the Incorporation of Amine and Polyamine Functional Groups. <i>Inorganic Chemistry</i> , 2019, 58, 4540-4552.	4.0	25
65	Altered SOD1 maturation and post-translational modification in amyotrophic lateral sclerosis spinal cord. <i>Brain</i> , 2022, 145, 3108-3130.	7.6	25
66	Clioquinol inhibits peroxide-mediated toxicity through up-regulation of phosphoinositol-3-kinase and inhibition of p53 activity. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 1030-1042.	2.8	24
67	Intracellular Distribution of Fluorescent Copper and Zinc Bis(thiosemicarbazonato) Complexes Measured with Fluorescence Lifetime Spectroscopy. <i>Inorganic Chemistry</i> , 2015, 54, 9556-9567.	4.0	24
68	Toward Hypoxia-Selective Rhenium and Technetium Tricarbonyl Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 9594-9610.	4.0	24
69	Enhancing survival motor neuron expression extends lifespan and attenuates neurodegeneration in mutant TDP-43 mice. <i>Human Molecular Genetics</i> , 2016, 25, 4080-4093.	2.9	22
70	Imaging Metals in Brain Tissue by Laser Ablation - Inductively Coupled Plasma - Mass Spectrometry (LA-ICP-MS). <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	22
71	Neurotoxicity from glutathione depletion is mediated by Cu-dependent p53 activation. <i>Free Radical Biology and Medicine</i> , 2008, 44, 44-55.	2.9	21
72	Cell cycle arrest in cultured neuroblastoma cells exposed to a bis(thiosemicarbazonato) metal complex. <i>BioMetals</i> , 2011, 24, 117-133.	4.1	21

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73	A versatile quantitative microdroplet elemental imaging method optimised for integration in biochemical workflows for low-volume samples. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 603-616.	3.7	19
74	Subcellular localization of a fluorescent derivative of Cull(atSm) offers insight into the neuroprotective action of Cull(atSm). <i>Metallomics</i> , 2011, 3, 1280.	2.4	17
75	Copper-ATSM as a Treatment for ALS: Support from Mutant SOD1 Models and Beyond. <i>Life</i> , 2020, 10, 271.	2.4	17
76	Iron accumulation in skeletal muscles of old mice is associated with impaired regeneration after ischaemia-reperfusion damage. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 476-492.	7.3	17
77	Effects of paracetamol (acetaminophen) on gene expression and permeability properties of the rat placenta and fetal brain. <i>F1000Research</i> , 2020, 9, 573.	1.6	16
78	The accumulation of enzymatically inactive cuproenzymes is a CNS-specific phenomenon of the SOD1G37R mouse model of ALS and can be restored by overexpressing the human copper transporter hCTR1. <i>Experimental Neurology</i> , 2018, 307, 118-128.	4.1	15
79	SLN124, a GalNac6-siRNA targeting transmembrane serine protease 6, in combination with deferiprone therapy reduces ineffective erythropoiesis and hepatic iron overload in a mouse model of β^0 -thalassaemia. <i>British Journal of Haematology</i> , 2021, 194, 200-210.	2.5	15
80	Free amino acids in claw muscle and haemolymph from Australian freshwater crayfish at different stages of the moult cycle. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 131, 625-637.	1.8	14
81	Gene Knockout of tau Expression Does Not Contribute to the Pathogenesis of Prion Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2011, 70, 1036-1045.	1.7	13
82	Water-soluble Bis(thiosemicarbazonato)copper(II) Complexes. <i>Australian Journal of Chemistry</i> , 2011, 64, 244.	0.9	12
83	Copper modulates the large dense core vesicle secretory pathway in PC12 cells. <i>Metallomics</i> , 2013, 5, 700.	2.4	10
84	Endogenous progesterone levels and frontotemporal dementia: modulation of TDP-43 and Tau levels in vitro and treatment of the A315T TARDBP mouse model. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 1198-204.	2.4	10
85	Regular Physical Exercise Modulates Iron Homeostasis in the 5xFAD Mouse Model of Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8715.	4.1	10
86	Glycogen Synthase Kinase-3. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-1.	2.0	9
87	CuATSM improves motor function and extends survival but is not tolerated at a high dose in SOD1G93A mice with a C57BL/6 background. <i>Scientific Reports</i> , 2021, 11, 19392.	3.3	9
88	Investigating copper-regulated protein expression in Menkes fibroblasts using antibody microarrays. <i>Proteomics</i> , 2008, 8, 1819-1831.	2.2	8
89	Anatomical redistribution of endogenous copper in embryonic mice overexpressing SOD1. <i>Metallomics</i> , 2019, 11, 141-150.	2.4	8
90	A potential role for zinc in restless legs syndrome. <i>Sleep</i> , 2021, 44, .	1.1	8

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91	Modulation of ceramide-induced cell death and superoxide production by mitochondrial DNA-encoded respiratory chain defects in <i>Rattus xenocybrid</i> mouse cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 817-825.	1.0	7
92	An integrated mass spectrometry imaging and digital pathology workflow for objective detection of colorectal tumours by unique atomic signatures. <i>Chemical Science</i> , 2021, 12, 10321-10333.	7.4	7
93	A potential copper-regulatory role for cytosolic expression of the DNA repair protein XRCC5. <i>Free Radical Biology and Medicine</i> , 2011, 51, 2060-2072.	2.9	5
94	Construction of 3D native elemental maps for large biological specimens using LA-ICP-MS coupled with X-ray tomography. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 671-678.	3.0	5
95	Superoxide Dismutase 1 in Health and Disease: How a Frontline Antioxidant Becomes Neurotoxic. <i>Angewandte Chemie</i> , 2021, 133, 9299-9330.	2.0	5
96	Iron overload and impaired iron handling contribute to the dystrophic pathology in models of Duchenne muscular dystrophy. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1541-1553.	7.3	5
97	Membrane-targeted strategies for modulating APP and A β -mediated toxicity. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 249-261.	3.6	4
98	Biomaterials and Alzheimer's Disease. , 2017, , 1-17.		4
99	Lithium administered to pregnant, lactating and neonatal rats: entry into developing brain. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 57.	5.0	4
100	Quantification of metallothionein-III in brain tissues using liquid chromatography tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2021, 630, 114326.	2.4	3
101	Comment: Cu-ATSM to treat and image amyotrophic lateral sclerosis. <i>Neurology</i> , 2015, 84, 2038-2038.	1.1	2
102	Sex-dependent effects of amyloid precursor-like protein 2 in the SOD1-G37R transgenic mouse model of MND. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6605-6630.	5.4	2