

Gawain McColl

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,789
citations

279701

23
h-index

360920

35
g-index

38
all docs

38
docs citations

38
times ranked

4364
citing authors

#	ARTICLE	IF	CITATIONS
1	Amyloid- β peptide protects against microbial infection in mouse and worm models of Alzheimer's disease. <i>Science Translational Medicine</i> , 2016, 8, 340ra72.	5.8	816
2	Evolution of lifespan in <i>C. elegans</i> . <i>Nature</i> , 2000, 405, 296-297.	13.7	192
3	Utility of an improved model of amyloid-beta ($A\beta$ 1-42) toxicity in <i>Caenorhabditis elegans</i> for drug screening for Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2012, 7, 57.	4.4	188
4	Fitness cost of extended lifespan in <i>Caenorhabditis elegans</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2523-2526.	1.2	167
5	Pharmacogenetic Analysis of Lithium-induced Delayed Aging in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 350-357.	1.6	166
6	Imaging metals in biology: balancing sensitivity, selectivity and spatial resolution. <i>Chemical Society Reviews</i> , 2015, 44, 5941-5958.	18.7	154
7	Insulin-like Signaling Determines Survival during Stress via Posttranscriptional Mechanisms in <i>C. elegans</i> . <i>Cell Metabolism</i> , 2010, 12, 260-272.	7.2	113
8	Iron, Copper, and Zinc Concentration in $A\beta$ Plaques in the APP/PS1 Mouse Model of Alzheimer's Disease Correlates with Metal Levels in the Surrounding Neuropil. <i>ACS Chemical Neuroscience</i> , 2017, 8, 629-637.	1.7	107
9	An iron-dopamine index predicts risk of parkinsonian neurodegeneration in the substantia nigra pars compacta. <i>Chemical Science</i> , 2014, 5, 2160-2169.	3.7	98
10	Direct in vivo imaging of ferrous iron dyshomeostasis in ageing <i>Caenorhabditis elegans</i> . <i>Chemical Science</i> , 2015, 6, 2952-2962.	3.7	86
11	Visualising mouse neuroanatomy and function by metal distribution using laser ablation-inductively coupled plasma-mass spectrometry imaging. <i>Chemical Science</i> , 2015, 6, 5383-5393.	3.7	69
12	Changes in ferrous iron and glutathione promote ferroptosis and frailty in aging <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2020, 9, .	2.8	68
13	Stabilization of Nontoxic $A\beta$ -Oligomers: Insights into the Mechanism of Action of Hydroxyquinolines in Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2015, 35, 2871-2884.	1.7	67
14	<i>Caenorhabditis elegans</i> : a model to investigate oxidative stress and metal dyshomeostasis in Parkinson's disease. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 89.	1.7	53
15	<i>Caenorhabditis elegans</i> Maintains Highly Compartmentalized Cellular Distribution of Metals and Steep Concentration Gradients of Manganese. <i>PLoS ONE</i> , 2012, 7, e32685.	1.1	47
16	Radiation Dose Limits for Bioanalytical X-ray Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2017, 89, 12168-12175.	3.2	45
17	Effect of the Biphenyl Neolignan Honokiol on $A\beta$ -Induced Toxicity in <i>Caenorhabditis elegans</i> , $A\beta$ Fibrillation, Cholinesterase Activity, DPPH Radicals, and Iron(II) Chelation. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1901-1912.	1.7	43
18	Direct in vivo imaging of essential bioinorganics in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2013, 5, 627.	1.0	40

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19	ÏtXANES: In vivo imaging of metal-protein coordination environments. <i>Scientific Reports</i> , 2016, 6, 20350.	1.6	37
20	Pro198Leu polymorphism affects the selenium status and GPx activity in response to Brazil nut intake. <i>Food and Function</i> , 2016, 7, 825-833.	2.1	29
21	Spiral scanning X-ray fluorescence computed tomography. <i>Optics Express</i> , 2017, 25, 23424.	1.7	28
22	Accurate biometal quantification per individual <i>Caenorhabditis elegans</i> . <i>Analyst</i> , The, 2016, 141, 1434-1439.	1.7	27
23	Multifunctional Analogs of Kynurenic Acid for the Treatment of Alzheimerâ€™s Disease: Synthesis, Pharmacology, and Molecular Modeling Studies. <i>ACS Chemical Neuroscience</i> , 2017, 8, 2667-2675.	1.7	26
24	Rivastigmine and metabolite analogues with putative Alzheimerâ€™s disease-modifying properties in a <i>Caenorhabditis elegans</i> model. <i>Communications Chemistry</i> , 2019, 2, .	2.0	25
25	High-resolution complementary chemical imaging of bio-elements in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2016, 8, 156-160.	1.0	22
26	Deferiprone Treatment in Aged Transgenic Tau Mice Improves Y-Maze Performance and Alters Tau Pathology. <i>Neurotherapeutics</i> , 2021, 18, 1081-1094.	2.1	17
27	Acoustomicrofluidic Concentration and Signal Enhancement of Fluorescent Nanodiamond Sensors. <i>Analytical Chemistry</i> , 2021, 93, 16133-16141.	3.2	12
28	Ethical Issues in the Treatment of Late-Stage Alzheimerâ€™s Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 1311-1316.	1.2	10
29	Simultaneous nanostructure and chemical imaging of intact whole nematodes. <i>Chemical Communications</i> , 2019, 55, 1052-1055.	2.2	9
30	Profiling changes to natively-bound metals during <i>Caenorhabditis elegans</i> development. <i>RSC Advances</i> , 2016, 6, 113689-113693.	1.7	8
31	Therapeutic potential of iron modulating drugs in a mouse model of multiple system atrophy. <i>Neurobiology of Disease</i> , 2021, 159, 105509.	2.1	8
32	â€œTo Treat or not To Treatâ€: Informing the Decision for Disease-Modifying Therapy in Late-Stage Alzheimerâ€™s Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 1321-1323.	1.2	5