

Dominic J Hare

List of Publications by Citations

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122
papers

4,977
citations

43
h-index

66
g-index

134
ext. papers

6,021
ext. citations

8
avg, IF

6.01
L-index

#	Paper	IF	Citations
122	A delicate balance: Iron metabolism and diseases of the brain. <i>Frontiers in Aging Neuroscience</i> , 2013 , 5, 34	5.3	235
121	Oxidative stress in the aging substantia nigra and the etiology of Parkinson's disease. <i>Aging Cell</i> , 2019 , 18, e13031	9.9	158
120	Copper pathology in vulnerable brain regions in Parkinson's disease. <i>Neurobiology of Aging</i> , 2014 , 35, 858-66	5.6	157
119	Selenium, selenoproteins and neurodegenerative diseases. <i>Metallomics</i> , 2015 , 7, 1213-28	4.5	155
118	Barium distributions in teeth reveal early-life dietary transitions in primates. <i>Nature</i> , 2013 , 498, 216-9	50.4	149
117	Iron and dopamine: a toxic couple. <i>Brain</i> , 2016 , 139, 1026-35	11.2	142
116	Quantification strategies for elemental imaging of biological samples using laser ablation-inductively coupled plasma-mass spectrometry. <i>Analyt, The</i> , 2012 , 137, 1527-37	5	130
115	Imaging metals in biology: balancing sensitivity, selectivity and spatial resolution. <i>Chemical Society Reviews</i> , 2015 , 44, 5941-58	58.5	128
114	Oral treatment with Cu(II)(atsm) 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, 8021-31	6.6	118
113	Glutathione peroxidase 4: a new player in neurodegeneration?. <i>Molecular Psychiatry</i> , 2017 , 22, 328-335	15.1	114
112	In vivo study of spherical gold nanoparticles: inflammatory effects and distribution in mice. <i>PLoS ONE</i> , 2013 , 8, e58208	3.7	113
111	Quantitative elemental bio-imaging of Mn, Fe, Cu and Zn in 6-hydroxydopamine induced Parkinsonism mouse models. <i>Metallomics</i> , 2009 , 1, 53-58	4.5	113
110	Three-dimensional atlas of iron, copper, and zinc in the mouse cerebrum and brainstem. <i>Analytical Chemistry</i> , 2012 , 84, 3990-7	7.8	100
109	Localization of copper and copper transporters in the human brain. <i>Metallomics</i> , 2013 , 5, 43-51	4.5	98
108	An iron/dopamine index predicts risk of parkinsonian neurodegeneration in the substantia nigra pars compacta. <i>Chemical Science</i> , 2014 , 5, 2160-2169	9.4	82
107	Factors affecting internal standard selection for quantitative elemental bio-imaging of soft tissues by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 1494	3.7	82
106	Elemental bio-imaging of trace elements in teeth using laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Dentistry</i> , 2011 , 39, 397-403	4.8	78

105	Iron, Copper, and Zinc Concentration in Aβ 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	5.7	75
104	Parkinson's disease iron deposition caused by nitric oxide-induced loss of β-amyloid precursor protein. <i>Journal of Neuroscience</i> , 2015 , 35, 3591-7	6.6	73
103	Is early-life iron exposure critical in neurodegeneration?. <i>Nature Reviews Neurology</i> , 2015 , 11, 536-44	15	70
102	High-resolution elemental bioimaging of Ca, Mn, Fe, Co, Cu, and Zn employing LA-ICP-MS and hydrogen reaction gas. <i>Analytical Chemistry</i> , 2012 , 84, 6707-14	7.8	69
101	Three-dimensional elemental bio-imaging of Fe, Zn, Cu, Mn and P in a 6-hydroxydopamine lesioned mouse brain. <i>Metallomics</i> , 2010 , 2, 745-53	4.5	65
100	Direct imaging of ferrous iron dyshomeostasis in ageing. <i>Chemical Science</i> , 2015 , 6, 2952-2962	9.4	63
99	Spatial distribution of manganese in enamel and coronal dentine of human primary teeth. <i>Science of the Total Environment</i> , 2011 , 409, 1315-9	10.2	60
98	Quantification method for elemental bio-imaging by LA-ICP-MS using metal spiked PMMA films. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 722	3.7	60
97	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	9.4	59
96	Protocol for production of matrix-matched brain tissue standards for imaging by laser ablation-inductively coupled plasma-mass spectrometry. <i>Analytical Methods</i> , 2013 , 5, 1915	3.2	59
95	Perineuronal Nets: Plasticity, Protection, and Therapeutic Potential. <i>Trends in Neurosciences</i> , 2019 , 42, 458-470	13.3	57
94	The novel compound PBT434 prevents iron mediated neurodegeneration and alpha-synuclein toxicity in multiple models of Parkinson's disease. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 53	7.3	57
93	Decreased plasma iron in Alzheimer's disease is due to transferrin desaturation. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 398-402	5.7	57
92	Improving acquisition times of elemental bio-imaging for quadrupole-based LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 159-164	3.7	57
91	Amyotrophic lateral sclerosis-like superoxide dismutase 1 proteinopathy is associated with neuronal loss in Parkinson's disease brain. <i>Acta Neuropathologica</i> , 2017 , 134, 113-127	14.3	56
90	Subcellular compartmentalisation of copper, iron, manganese, and zinc in the Parkinson's disease brain. <i>Metallomics</i> , 2017 , 9, 1447-1455	4.5	56
89	Stabilization of nontoxic Aβ oligomers: insights into the mechanism of action of hydroxyquinolines in Alzheimer's disease. <i>Journal of Neuroscience</i> , 2015 , 35, 2871-84	6.6	56
88	Clioquinol Improves Cognitive, Motor Function, and Microanatomy of the Alpha-Synuclein hA53T Transgenic Mice. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 119-29	5.7	54

87	Metallobiology of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine neurotoxicity. <i>Metallomics</i> , 2013 , 5, 91-109	4.9	51
86	Elemental bio-imaging using laser ablation-triple quadrupole-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 197-202	3.7	47
85	Elemental bio-imaging of melanoma in lymph node biopsies. <i>Analyst, The</i> , 2009 , 134, 450-3	5	46
84	Trehalose Improves Cognition in the Transgenic Tg2576 Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017 , 60, 549-560	4.3	45
83	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	7.9	44
82	Metalloproteomics: principles, challenges and applications to neurodegeneration. <i>Frontiers in Aging Neuroscience</i> , 2013 , 5, 35	5.3	44
81	Elemental bio-imaging of thorium, uranium, and plutonium in tissues from occupationally exposed former nuclear workers. <i>Analytical Chemistry</i> , 2010 , 82, 3176-82	7.8	44
80	Excessive early-life dietary exposure: a potential source of elevated brain iron and a risk factor for Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2017 , 3, 1	9.7	43
79	Selenium status in preschool children receiving a Brazil nut-enriched diet. <i>Nutrition</i> , 2015 , 31, 1339-43	4.8	43
78	Metal chaperones prevent zinc-mediated cognitive decline. <i>Neurobiology of Disease</i> , 2015 , 81, 196-202	7.5	41
77	A novel approach to rapidly prevent age-related cognitive decline. <i>Aging Cell</i> , 2014 , 13, 351-9	9.9	40
76	The effect of paraformaldehyde fixation and sucrose cryoprotection on metal concentration in murine neurological tissue. <i>Journal of Analytical Atomic Spectrometry</i> , 2014 , 29, 565-570	3.7	39
75	Selenium Levels in Serum, Red Blood Cells, and Cerebrospinal Fluid of Alzheimer's Disease Patients: A Report from the Australian Imaging, Biomarker & Lifestyle Flagship Study of Ageing (AIBL). <i>Journal of Alzheimer's Disease</i> , 2017 , 57, 183-193	4.3	38
74	Elemental imaging of leaves from the metal hyperaccumulating plant <i>Noccaea caerulescens</i> shows different spatial distribution of Ni, Zn and Cd. <i>RSC Advances</i> , 2016 , 6, 2337-2344	3.7	36
73	The APOE ϵ Allele Is Associated with Lower Selenium Levels in the Brain: Implications for Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 1459-1464	5.7	35
72	Profiling the iron, copper and zinc content in primary neuron and astrocyte cultures by rapid online quantitative size exclusion chromatography-inductively coupled plasma-mass spectrometry. <i>Metallomics</i> , 2013 , 5, 1656-62	4.5	35
71	Radiation Dose Limits for Bioanalytical X-ray Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2017 , 89, 12168-12175	7.8	34
70	Comparative Study of Metal Quantification in Neurological Tissue Using Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry Imaging and X-ray Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2015 , 87, 6639-45	7.8	34

69	Determination of selenium in serum in the presence of gadolinium with ICP-QQQ-MS. <i>Analyst, The</i> , 2015 , 140, 2842-6	5	34
68	A guide to integrating immunohistochemistry and chemical imaging. <i>Chemical Society Reviews</i> , 2018 , 47, 3770-3787	58.5	34
67	Supranutritional Sodium Selenate Supplementation Delivers Selenium to the Central Nervous System: Results from a Randomized Controlled Pilot Trial in Alzheimer's Disease. <i>Neurotherapeutics</i> , 2019 , 16, 192-202	6.4	34
66	Elemental bio-imaging of calcium phosphate crystal deposits in knee samples from arthritic patients. <i>Metallomics</i> , 2009 , 1, 142-7	4.5	33
65	Rubidium and potassium levels are altered in Alzheimer's disease brain and blood but not in cerebrospinal fluid. <i>Acta Neuropathologica Communications</i> , 2016 , 4, 119	7.3	32
64	XANES: In vivo imaging of metal-protein coordination environments. <i>Scientific Reports</i> , 2016 , 6, 20350	4.9	31
63	Decreased serum zinc is an effect of ageing and not Alzheimer's disease. <i>Metallomics</i> , 2014 , 6, 1216-9	4.5	31
62	Decreased copper in Alzheimer's disease brain is predominantly in the soluble extractable fraction. <i>International Journal of Alzheimer's Disease</i> , 2013 , 2013, 623241	3.7	29
61	Applications of liquid chromatography-inductively coupled plasma-mass spectrometry in the biosciences: A tutorial review and recent developments. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 11-21	14.6	27
60	Considerations for measuring iron in post-mortem tissue of Parkinson's disease patients. <i>Journal of Neural Transmission</i> , 2012 , 119, 1515-21	4.3	27
59	Meta-Analysis of Copper and Iron in Parkinson's Disease Brain and Biofluids. <i>Movement Disorders</i> , 2020 , 35, 662-671	7	26
58	Pro198Leu polymorphism affects the selenium status and GPx activity in response to Brazil nut intake. <i>Food and Function</i> , 2016 , 7, 825-33	6.1	24
57	Effects of Neonatal Iron Feeding and Chronic Cloquinol Administration on the Parkinsonian Human A53T Transgenic Mouse. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 360-6	5.7	24
56	Superoxide Dismutase 1 in Health and Disease: How a Frontline Antioxidant Becomes Neurotoxic. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9215-9246	16.4	24
55	Promises and Pitfalls of Metal Imaging in Biology. <i>Cell Chemical Biology</i> , 2018 , 25, 7-18	8.2	24
54	A high-fat high-sugar diet in adolescent rats impairs social memory and alters chemical markers characteristic of atypical neuroplasticity and parvalbumin interneuron depletion in the medial prefrontal cortex. <i>Food and Function</i> , 2019 , 10, 1985-1998	6.1	23
53	A time-course analysis of changes in cerebral metal levels following a controlled cortical impact. <i>Metallomics</i> , 2016 , 8, 193-200	4.5	23
52	Accurate biometal quantification per individual <i>Caenorhabditis elegans</i> . <i>Analyst, The</i> , 2016 , 141, 1434-9	5	22

51	Lead and manganese levels in serum and erythrocytes in Alzheimer's disease and mild cognitive impairment: results from the Australian Imaging, Biomarkers and Lifestyle Flagship Study of Ageing. <i>Metallomics</i> , 2016 , 8, 628-32	4.5	22
50	A Proposed Mechanism for Neurodegeneration in Movement Disorders Characterized by Metal Dyshomeostasis and Oxidative Stress. <i>Cell Chemical Biology</i> , 2018 , 25, 807-816	8.2	22
49	Long-term intermittent hypoxia elevates cobalt levels in the brain and injures white matter in adult mice. <i>Sleep</i> , 2013 , 36, 1471-81	1.1	21
48	High-resolution complementary chemical imaging of bio-elements in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2016 , 8, 156-60	4.5	20
47	Trehalose improves traumatic brain injury-induced cognitive impairment. <i>PLoS ONE</i> , 2017 , 12, e0183683	3.7	20
46	On the outside looking in: redefining the role of analytical chemistry in the biosciences. <i>Chemical Communications</i> , 2016 , 52, 8918-34	5.8	18
45	Kinetic Modeling of pH-Dependent Oxidation of Dopamine by Iron and Its Relevance to Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2018 , 12, 859	5.1	17
44	Hepcidin: a real-time biomarker of iron need. <i>Metallomics</i> , 2017 , 9, 606-618	4.5	15
43	Neurological effects of iron supplementation in infancy: finding the balance between health and harm in iron-replete infants. <i>The Lancet Child and Adolescent Health</i> , 2018 , 2, 144-156	14.5	15
42	Accumulation of dysfunctional SOD1 protein in Parkinson's disease is not associated with mutations in the SOD1 gene. <i>Acta Neuropathologica</i> , 2018 , 135, 155-156	14.3	15
41	Tracing Environmental Exposure from Neurodevelopment to Neurodegeneration. <i>Trends in Neurosciences</i> , 2018 , 41, 496-501	13.3	15
40	Age modulates the injury-induced metallomic profile in the brain. <i>Metallomics</i> , 2017 , 9, 402-410	4.5	14
39	Imaging Metals in Brain Tissue by Laser Ablation - Inductively Coupled Plasma - Mass Spectrometry (LA-ICP-MS). <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	14
38	Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry Imaging in Biology. <i>Chemical Reviews</i> , 2021 , 121, 11769-11822	68.1	14
37	l-3,4-dihydroxyphenylalanine (l-DOPA) modulates brain iron, dopaminergic neurodegeneration and motor dysfunction in iron overload and mutant alpha-synuclein mouse models of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2019 , 150, 88-106	6	13
36	Beyond the transect: an alternative microchemical imaging method for fine scale analysis of trace elements in fish otoliths during early life. <i>Science of the Total Environment</i> , 2014 , 494-495, 177-86	10.2	13
35	Characterising the spatial and temporal brain metal profile in a mouse model of tauopathy. <i>Metallomics</i> , 2020 , 12, 301-313	4.5	13
34	Malignant glioma: MR imaging by using 5-aminolevulinic acid in an animal model. <i>Radiology</i> , 2014 , 272, 720-30	20.5	12

33	Sex-dependent association between selenium status and cognitive performance in older adults. <i>European Journal of Nutrition</i> , 2021 , 60, 1153-1159	5.2	12
32	The Emerging Role of Metalloproteomics in Alzheimer's Disease Research. <i>Methods in Molecular Biology</i> , 2016 , 1303, 379-89	1.4	10
31	Direct determination of zinc in plasma by graphite furnace atomic absorption spectrometry using palladium/magnesium and EDTA matrix modification with high temperature pyrolysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 843-847	3.7	10
30	Traumatic brain injury induces elevation of Co in the human brain. <i>Metallomics</i> , 2015 , 7, 66-70	4.5	10
29	Characterisation of matrix-based polyatomic interference formation in laser ablation-inductively coupled plasma-mass spectrometry using dried micro-droplet ablation and its relevance for bioimaging. <i>Analytical Methods</i> , 2016 , 8, 7552-7556	3.2	9
28	Trehalose elevates brain zinc levels following controlled cortical impact in a mouse model of traumatic brain injury. <i>Metallomics</i> , 2018 , 10, 846-853	4.5	9
27	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	4.4	9
26	Whole-brain metallomic analysis of the common marmoset (<i>Callithrix jacchus</i>). <i>Metallomics</i> , 2017 , 9, 411-423	4.3	8
25	Simultaneous nanostructure and chemical imaging of intact whole nematodes. <i>Chemical Communications</i> , 2019 , 55, 1052-1055	5.8	8
24	The US Transuranium and Uranium Registries: forty years experience and new directions in the analysis of actinides in human tissues. <i>Proceedings in Radiochemistry</i> , 2011 , 1, 173-181		8
23	Regional iron distribution and soluble ferroprotein profiles in the healthy human brain. <i>Progress in Neurobiology</i> , 2020 , 186, 101744	10.9	8
22	From niche methods to necessary tools: The growing importance of analytical atomic spectrometry in metal imaging in neuroscience. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 156, 20-32	3.1	7
21	Speciation and quantification of organotin compounds in sediment and drinking water by isotope dilution liquid chromatography-inductively coupled plasma-mass spectrometry. <i>Analytical Methods</i> , 2015 , 7, 5012-5018	3.2	7
20	Profiling changes to natively-bound metals during development. <i>RSC Advances</i> , 2016 , 6, 113689-113693	3.7	7
19	Thin films of ruthenium phthalocyanine complexes. <i>Nano Research</i> , 2009 , 2, 678-687	10	7
18	Anatomical redistribution of endogenous copper in embryonic mice overexpressing SOD1. <i>Metallomics</i> , 2019 , 11, 141-150	4.5	6
17	Harmonizing analytical chemistry and clinical epidemiology for human biomonitoring studies. A case-study of plastic product chemicals in urine. <i>Chemosphere</i> , 2020 , 238, 124631	8.4	6
16	Tooth lead levels as an estimate of lead body burden in rats following pre- and neonatal exposure. <i>RSC Advances</i> , 2015 , 5, 67308-67314	3.7	5

15	GPX1 Pro198Leu polymorphism and GSTM1 deletion do not affect selenium and mercury status in mildly exposed Amazonian women in an urban population. <i>Science of the Total Environment</i> , 2016 , 571, 801-8	10.2	5
14	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	9.4	5
13	Simultaneous structural and elemental nano-imaging of human brain tissue. <i>Chemical Science</i> , 2020 , 11, 8919-8927	9.4	4
12	Superoxide Dismutase 1 in Health and Disease: How a Frontline Antioxidant Becomes Neurotoxic. <i>Angewandte Chemie</i> , 2021 , 133, 9299-9330	3.6	4
11	Disrupted copper availability in sporadic ALS: Implications for Cull(atSm) as a treatment option		3
10	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	3.7	2
9	The Immuno-Mass Spectrometry Chemical Microscope. <i>Trends in Chemistry</i> , 2020 , 2, 403-406	14.8	2
8	Health outcomes of iron supplementation and/or food fortification in iron-replete children aged 4-24 months: protocol for a systematic review and meta-analysis. <i>Systematic Reviews</i> , 2019 , 8, 253	3	2
7	Magnetic resonance imaging of the pancreas in streptozotocin-induced diabetic rats: Gadofluorine P and Gd-DOTA. <i>World Journal of Gastroenterology</i> , 2015 , 21, 5831-42	5.6	2
6	Regular Physical Exercise Modulates Iron Homeostasis in the 5xFAD Mouse Model of Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
5	The Role of Selenium in Neurodegenerative Diseases 2017 , 35-49		1
4	Spatially resolved imaging methods to probe metals in the brain: from subcellular to organ level 2012 , 211-222		1
3	Detecting antimicrobial resistance in using benchtop attenuated total reflectance-Fourier transform infrared spectroscopy and machine learning. <i>Analyst, The</i> , 2021 , 146, 6211-6219	5	1
2	Imaging Metals in the Brain by Laser Ablation Inductively Coupled Plasma-Mass Spectrometry. <i>Neuromethods</i> , 2017 , 33-50	0.4	0
1	Commentary: Comments regarding Becker et al. (Analytica Chimica Acta, 835, 2014, 1-18). <i>Analytica Chimica Acta</i> , 2017 , 972, 12-15	6.6	