

Mark Hackett

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,989
citations

293460

24
h-index

312153

41
g-index

82
all docs

82
docs citations

82
times ranked

2784
citing authors

#	ARTICLE	IF	CITATIONS
1	The transfer and persistence of metals in latent fingermarks. <i>Analyst, The</i> , 2022, 147, 387-397.	1.7	5
2	A review of the "metallome" within neurons and glia, as revealed by elemental mapping of brain tissue. <i>BBA Advances</i> , 2022, 2, 100038.	0.7	3
3	Monitoring the chemical changes in fingermark residue over time using synchrotron infrared spectroscopy. <i>Analyst, The</i> , 2022, 147, 799-810.	1.7	7
4	Multimodal imaging of hemorrhagic transformation biomarkers in an ischemic stroke model. <i>Metallomics</i> , 2022, 14, .	1.0	6
5	X-ray fluorescence microscopy methods for biological tissues. <i>Metallomics</i> , 2022, 14, .	1.0	19
6	Chronic high fat feeding paradoxically attenuates cerebral capillary dysfunction and neurovascular inflammation in Senescence-Accelerated-Murine-Prone Strain 8 mice. <i>Nutritional Neuroscience</i> , 2021, 24, 635-643.	1.5	4
7	Synchrotron X-ray fluorescence microscopy-enabled elemental mapping illuminates the "battle for nutrients" between plant and pathogen. <i>Journal of Experimental Botany</i> , 2021, 72, 2757-2768.	2.4	9
8	Tracking biochemical changes induced by iron loading in AML12 cells with synchrotron live cell, time-lapse infrared microscopy. <i>Biochemical Journal</i> , 2021, 478, 1227-1239.	1.7	4
9	Technological strategies to improve gelation properties of legume proteins with the focus on lupin. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 68, 102634.	2.7	24
10	Blood-brain barrier disruption and ventricular enlargement are the earliest neuropathological changes in rats with repeated sub-concussive impacts over 2 weeks. <i>Scientific Reports</i> , 2021, 11, 9261.	1.6	10
11	Structural Changes in Insulin at a Soft Electrochemical Interface. <i>Analytical Chemistry</i> , 2021, 93, 9094-9102.	3.2	2
12	Accumulation and potential for transport of microplastics in stormwater drains into marine environments, Perth region, Western Australia. <i>Marine Pollution Bulletin</i> , 2021, 168, 112362.	2.3	34
13	Physicochemical characterisation of kafirins extracted from sorghum grain and dried distillers grain with solubles related to their biomaterial functionality. <i>Scientific Reports</i> , 2021, 11, 15204.	1.6	5
14	"Wax On, Wax Off" In Vivo Imaging of Plant Physiology and Disease with Fourier Transform Infrared Reflectance Microspectroscopy. <i>Advanced Science</i> , 2021, 8, e2101902.	5.6	5
15	Synthesis of human amyloid restricted to liver results in an Alzheimer disease-like neurodegenerative phenotype. <i>PLoS Biology</i> , 2021, 19, e3001358.	2.6	42
16	Mapping sub-cellular protein aggregates and lipid inclusions using synchrotron ATR-FTIR microspectroscopy. <i>Analyst, The</i> , 2021, 146, 3516-3525.	1.7	6
17	"A spectroscopic picture paints 1000 words" mapping iron speciation in brain tissue with "full spectrum per pixel" X-ray absorption near-edge structure spectroscopy. <i>Clinical Spectroscopy</i> , 2021, 3, 100017.	0.6	4
18	Genetic, environmental and biomarker considerations delineating the regulatory effects of vitamin D on central nervous system function. <i>British Journal of Nutrition</i> , 2020, 123, 41-58.	1.2	3

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19	Characterization of Ionic and Lipid Gradients within Corpus Callosum White Matter after Diffuse Traumatic Brain Injury in the Rat. <i>ACS Chemical Neuroscience</i> , 2020, 11, 248-257.	1.7	6
20	Tracking elemental changes in an ischemic stroke model with X-ray fluorescence imaging. <i>Scientific Reports</i> , 2020, 10, 17868.	1.6	12
21	Investigation of the effect of taurine supplementation on muscle taurine content in the mdx mouse model of Duchenne muscular dystrophy using chemically specific synchrotron imaging. <i>Analyst, The</i> , 2020, 145, 7242-7251.	1.7	7
22	Sample preparation with sucrose cryoprotection dramatically alters Zn distribution in the rodent hippocampus, as revealed by elemental mapping. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2498-2508.	1.6	19
23	Repeated Long-Term Sub-concussion Impacts Induce Motor Dysfunction in Rats: A Potential Rodent Model. <i>Frontiers in Neurology</i> , 2020, 11, 491.	1.1	17
24	Imaging lipophilic regions in rodent brain tissue with halogenated BODIPY probes. <i>Analyst, The</i> , 2020, 145, 3809-3813.	1.7	3
25	Revealing differences in the chemical form of zinc in brain tissue using K-edge X-ray absorption near-edge structure spectroscopy. <i>Metallomics</i> , 2020, 12, 2134-2144.	1.0	8
26	Revealing the Elemental Distribution within Latent Fingermarks Using Synchrotron Sourced X-ray Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 10622-10630.	3.2	22
27	Elemental characterisation of the pyramidal neuron layer within the rat and mouse hippocampus. <i>Metallomics</i> , 2019, 11, 151-165.	1.0	19
28	Visualizing sulfur with X-rays: From molecules to tissues. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 618-623.	0.8	3
29	Complementary Approaches to Imaging Subcellular Lipid Architectures in Live Bacteria Using Phosphorescent Iridium Complexes and Raman Spectroscopy. <i>Chemistry - A European Journal</i> , 2019, 25, 10566-10570.	1.7	17
30	Tumour suppression by targeted intravenous non-viral CRISPRa using dendritic polymers. <i>Chemical Science</i> , 2019, 10, 7718-7727.	3.7	37
31	Synchrotron macro ATR-FTIR microspectroscopy for high-resolution chemical mapping of single cells. <i>Analyst, The</i> , 2019, 144, 3226-3238.	1.7	74
32	Multimodal Imaging Analyses of Brain Hippocampal Formation Reveal Reduced Cu and Lipid Content and Increased Lactate Content in Non-Insulin-Dependent Diabetic Mice. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2533-2540.	1.7	10
33	Secondary Structural Changes in Proteins as a Result of Electroadsorption at Aqueous "Organogel Interfaces. <i>Langmuir</i> , 2019, 35, 5821-5829.	1.6	9
34	A Review of ex vivo Elemental Mapping Methods to Directly Image Changes in the Homeostasis of Diffusible Ions (Na ⁺ , K ⁺ , Mg ²⁺ , Ca ²⁺ , Cl ⁻) Within Brain Tissue. <i>Frontiers in Neuroscience</i> , 2019, 13, 1415.	1.4	11
35	Protein-Energy Malnutrition Exacerbates Stroke-Induced Forelimb Abnormalities and Dampens Neuroinflammation. <i>Translational Stroke Research</i> , 2018, 9, 622-630.	2.3	12
36	Revealing the Penumbra through Imaging Elemental Markers of Cellular Metabolism in an Ischemic Stroke Model. <i>ACS Chemical Neuroscience</i> , 2018, 9, 886-893.	1.7	19

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37	Longitudinal Performance of Senescence Accelerated Mouse Prone-Strain 8 (SAMP8) Mice in an Olfactory-Visual Water Maze Challenge. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 174.	1.0	5
38	A comparison of parametric and integrative approaches for X-ray fluorescence analysis applied to a Stroke model. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1780-1789.	1.0	11
39	Biospectroscopic Imaging Provides Evidence of Hippocampal Zn Deficiency and Decreased Lipid Unsaturation in an Accelerated Aging Mouse Model. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2774-2785.	1.7	18
40	Focal plane array IR imaging at the Australian Synchrotron. <i>Infrared Physics and Technology</i> , 2018, 94, 85-90.	1.3	11
41	Electrochemistry of proteins at the interface between two immiscible electrolyte solutions. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 27-32.	2.5	26
42	Better together: Potential of co-culture microorganisms to enhance bioleaching of rare earth elements from monazite. <i>Bioresource Technology Reports</i> , 2018, 3, 109-118.	1.5	35
43	Direct label-free imaging of brain tissue using synchrotron light: a review of new spectroscopic tools for the modern neuroscientist. <i>Analyst, The</i> , 2018, 143, 3761-3774.	1.7	13
44	Revealing the spatial distribution of chemical species within latent fingerprints using vibrational spectroscopy. <i>Analyst, The</i> , 2018, 143, 4027-4039.	1.7	38
45	Parallel changes in cortical neuron biochemistry and motor function in protein-energy malnourished adult rats. <i>NeuroImage</i> , 2017, 149, 275-284.	2.1	6
46	Rehabilitation Augments Hematoma Clearance and Attenuates Oxidative Injury and Ion Dyshomeostasis After Brain Hemorrhage. <i>Stroke</i> , 2017, 48, 195-203.	1.0	34
47	Biological iron-sulfur storage in a thioferrate-protein nanoparticle. <i>Nature Communications</i> , 2017, 8, 16110.	5.8	20
48	Photochemically Generated Thiyl Free Radicals Observed by X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 11519-11526.	6.6	23
49	A Multimodal Spectroscopic Imaging Method To Characterize the Metal and Macromolecular Content of Proteinaceous Aggregates (Amyloid Plaques). <i>Biochemistry</i> , 2017, 56, 4107-4116.	1.2	55
50	FTIR studies of the similarities between pathology induced protein aggregation in vivo and chemically induced protein aggregation ex vivo. <i>Vibrational Spectroscopy</i> , 2017, 91, 68-76.	1.2	24
51	Medium-energy microprobe station at the SXRMB of the CLS. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 333-337.	1.0	23
52	Multi-modal spectroscopic imaging with synchrotron light to study mechanisms of brain disease. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
53	Antioxidants and Dementia Risk: Consideration through a Cerebrovascular Perspective. <i>Nutrients</i> , 2016, 8, 828.	1.7	22
54	Mapping Alterations to the Endogenous Elemental Distribution within the Lateral Ventricles and Choroid Plexus in Brain Disorders Using X-Ray Fluorescence Imaging. <i>PLoS ONE</i> , 2016, 11, e0158152.	1.1	18

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55	Concurrent Glycogen and Lactate Imaging with FTIR Spectroscopy To Spatially Localize Metabolic Parameters of the Glial Response Following Brain Ischemia. <i>Analytical Chemistry</i> , 2016, 88, 10949-10956.	3.2	31
56	Imaging Taurine in the Central Nervous System Using Chemically Specific X-ray Fluorescence Imaging at the Sulfur K-Edge. <i>Analytical Chemistry</i> , 2016, 88, 10916-10924.	3.2	19
57	Chemical Biology in the Embryo: <i>In Situ</i> Imaging of Sulfur Biochemistry in Normal and Proteoglycan-Deficient Cartilage Matrix. <i>Biochemistry</i> , 2016, 55, 2441-2451.	1.2	13
58	Distribution of selenium in zebrafish larvae after exposure to organic and inorganic selenium forms. <i>Metallomics</i> , 2016, 8, 305-312.	1.0	36
59	A novel multi-modal platform to image molecular and elemental alterations in ischemic stroke. <i>Neurobiology of Disease</i> , 2016, 91, 132-142.	2.1	40
60	Novel bio-spectroscopic imaging reveals disturbed protein homeostasis and thiol redox with protein aggregation prior to hippocampal CA1 pyramidal neuron death induced by global brain ischemia in the rat. <i>Free Radical Biology and Medicine</i> , 2015, 89, 806-818.	1.3	24
61	Mechanisms of murine cerebral malaria: Multimodal imaging of altered cerebral metabolism and protein oxidation at hemorrhage sites. <i>Science Advances</i> , 2015, 1, e1500911.	4.7	25
62	In Situ Biospectroscopic Investigation of Rapid Ischemic and Postmortem Induced Biochemical Alterations in the Rat Brain. <i>ACS Chemical Neuroscience</i> , 2015, 6, 226-238.	1.7	41
63	Interaction of mercury and selenium in the larval stage zebrafish vertebrate model. <i>Metallomics</i> , 2015, 7, 1247-1255.	1.0	34
64	Development of single-beam wide-field infrared imaging to study sub-cellular neuron biochemistry. <i>Vibrational Spectroscopy</i> , 2015, 77, 51-59.	1.2	23
65	A New Method To Image Heme-Fe, Total Fe, and Aggregated Protein Levels after Intracerebral Hemorrhage. <i>ACS Chemical Neuroscience</i> , 2015, 6, 761-770.	1.7	33
66	Laminar-specific distribution of zinc: Evidence for presence of layer IV in forelimb motor cortex in the rat. <i>NeuroImage</i> , 2014, 103, 502-510.	2.1	14
67	Long-Range Chemical Sensitivity in the Sulfur K-Edge X-ray Absorption Spectra of Substituted Thiophenes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7796-7802.	1.1	31
68	Elemental and Chemically Specific X-ray Fluorescence Imaging of Biological Systems. <i>Chemical Reviews</i> , 2014, 114, 8499-8541.	23.0	234
69	Light and heavy ion beam analysis of thin biological sections. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 306, 129-133.	0.6	12
70	Subcellular Biochemical Investigation of Purkinje Neurons Using Synchrotron Radiation Fourier Transform Infrared Spectroscopic Imaging with a Focal Plane Array Detector. <i>ACS Chemical Neuroscience</i> , 2013, 4, 1071-1080.	1.7	35
71	FTIR Imaging of Brain Tissue Reveals Crystalline Creatine Deposits Are an ex Vivo Marker of Localized Ischemia during Murine Cerebral Malaria: General Implications for Disease Neurochemistry. <i>ACS Chemical Neuroscience</i> , 2012, 3, 1017-1024.	1.7	24
72	X-ray Absorption Spectroscopy at the Sulfur K-Edge: A New Tool to Investigate the Biochemical Mechanisms of Neurodegeneration. <i>ACS Chemical Neuroscience</i> , 2012, 3, 178-185.	1.7	61

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73	Prolonged Therapeutic Hypothermia does not Adversely Impact Neuroplasticity after Global Ischemia in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1525-1534.	2.4	39
74	X-ray-induced photo-chemistry and X-ray absorption spectroscopy of biological samples. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 875-886.	1.0	141
75	Chemical alterations to murine brain tissue induced by formalin fixation: implications for biospectroscopic imaging and mapping studies of disease pathogenesis. <i>Analyst, The</i> , 2011, 136, 2941.	1.7	163
76	Biomedical applications of X-ray absorption and vibrational spectroscopic microscopies in obtaining structural information from complex systems. <i>Radiation Physics and Chemistry</i> , 2010, 79, 176-184.	1.4	34
77	Well-defined Tetrazole-functional Copolymers as Macromolecular Ligands for Luminescent Ir(III) and Re(I) Metal Species: Synthesis, Photophysical Properties and Application in Bioimaging. <i>Macromolecular Chemistry and Physics</i> , 0, , 2200021.	1.1	0
78	Leaving a mark on forensic science: how spectroscopic techniques have revealed new insights in fingerprint chemistry. <i>Spectroscopy Europe</i> , 0, , 22.	0.0	1
79	Mapping metals in brain tissue with X-ray fluorescence and X-ray absorption spectroscopy at synchrotron light sources. <i>Spectroscopy Europe</i> , 0, , .	0.0	0