Magdalena Szczerbowska-Boruchowska

List of Publications by Year
in descending order

29 papers	730 citations	623734 14 h-index	526287 27 g-index
30 all docs	30 docs citations	30 times ranked	959 citing authors

#	Article	IF	Citations
1	On 2D-FTIR-XRF microscopy â€“ A step forward correlative tissue studies by infrared and hard X-ray radiation. Ultramicroscopy, 2022, 232, 113408.	1.9	8
2	Model-based correction algorithm for Fourier Transform infrared microscopy measurements of complex tissue-substrate systems. Analytica Chimica Acta, 2020, 1103, 143-155.	5.4	9
3	Feasibility study of elemental analysis of large population of formalin fixed paraffin embedded tissue samples â€“ preliminary results. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 173, 105971.	2.9	7
4	Soft X-ray induced radiation damage in thin freeze-dried brain samples studied by FTIR microscopy. Journal of Synchrotron Radiation, 2020, 27, 1218-1226.	2.4	10
5	Molecular and elemental effects underlying the biochemical action of transcranial direct current stimulation (tDCS) in appetite control. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 195, 199-209.	3.9	18
6	Combined brain Fe, Cu, Zn and neurometabolite analysis â€“ a new methodology for unraveling the efficacy of transcranial direct current stimulation (tDCS) in appetite control. Metallomics, 2018, 10, 397-405.	2.4	6
7	Sources and fate of microplastics in marine and beach sediments of the Southern Baltic Seaâ€"a preliminary study. Environmental Science and Pollution Research, 2017, 24, 7650-7661.	5.3	229
8	FTIR imaging of the molecular burden around AÎ² deposits in an early-stage 3-Tg-APP-PSP1-TAU mouse model of Alzheimer's disease. Analyst, The, 2017, 142, 156-168.	3.5	19
9	Data quantification procedures for a benchâ€top elemental microimaging of brain specimens for the clinical studies on the obesity treatment by transcranial direct current brain stimulation. X-Ray Spectrometry, 2017, 46, 388-396.	1.4	5
10	Investigation of biochemical composition of adrenal gland tumors by means of FTIR. Polish Journal of Pathology, 2016, 1, 60-68.	0.3	2
11	Peripheral Vagus Nerve Stimulation Significantly Affects Lipid Composition and Protein Secondary Structure Within Dopamine-Related Brain Regions in Rats. NeuroMolecular Medicine, 2015, 17, 178-191.	3.4	19
12	Synchrotron radiation based X-ray fluorescence shows changes in the elemental composition of the human substantia nigra in aged brains. Metallomics, 2015, 7, 1522-1531.	2.4	15
13	A METHODOLOGICAL APPROACH TO THE CHARACTERIZATION OF BRAIN GLIOMAS, BY MEANS OF SEMI-AUTOMATIC MORPHOMETRIC ANALYSIS. Image Analysis and Stereology, 2014, 33, 201.	0.9	3
14	Variability of protein and lipid composition of human subtantia nigra in aging: Fourier transform infrared microspectroscopy study. Neurochemistry International, 2014, 76, 12-22.	3.8	14
15	Classification/Diagnosis of Brain Tumors Using Discriminant Function Analysis. Tumors of the Central Nervous System, 2014, , 3-18.	0.1	0
16	The oxidation states and chemical environments of iron and zinc as potential indicators of brain tumour malignancy grade â€“ preliminary results. Metallomics, 2013, 5, 1547.	2.4	11
17	A synchrotron radiation micro-X-ray absorption near edge structure study of sulfur speciation in human brain tumorsâ€"a methodological approach. Journal of Analytical Atomic Spectrometry, 2012, 27, 239-247.	3.0	14
18	The influence of electrical stimulation of vagus nerve on elemental composition of dopamine related brain structures in rats. Neurochemistry International, 2012, 61, 156-165.	3.8	12

#	Article	IF	Citations
19	Elemental micro-imaging and quantification of human substantia nigra using synchrotron radiation based x-ray fluorescenceâ€”in relation to Parkinsonâ€™s disease. Journal of Physics Condensed Matter, 2012, 24, 244104.	1.8	15
20	The perspective of new multiâ€layer reference materials for confocal 3D micro Xâ€ray fluorescence spectroscopy. X-Ray Spectrometry, 2012, 41, 273-278.	1.4	10
21	Sample thickness considerations for quantitative Xâ€ray fluorescence analysis of the soft and skeletal tissues of the human body â€“ theoretical evaluation and experimental validation. X-Ray Spectrometry, 2012, 41, 328-337.	1.4	36
22	First step toward the â€œfingerprintingâ€• of brain tumors based on synchrotron radiation X-ray fluorescence and multiple discriminant analysis. Journal of Biological Inorganic Chemistry, 2011, 16, 1217-1226.	2.6	15
23	An integrated experimental and analytical approach to the chemical state imaging of iron in brain gliomas using X-ray absorption near edge structure spectroscopy. Analytica Chimica Acta, 2011, 699, 153-160.	5.4	9
24	Xâ€ray fluorescence spectrometry, an analytical tool in neurochemical research. X-Ray Spectrometry, 2008, 37, 21-31.	1.4	29
25	Study of Cu chemical state inside single neurons from Parkinson's disease and control substantia nigra using the micro-XANES technique. Journal of Trace Elements in Medicine and Biology, 2008, 22, 183-188.	3.0	20
26	Biomolecular investigation of human substantia nigra in Parkinsonâ€™s disease by synchrotron radiation Fourier transform infrared microspectroscopy. Archives of Biochemistry and Biophysics, 2007, 459, 241-248.	3.0	78
27	Investigations of differences in iron oxidation state inside single neurons from substantia nigra of Parkinsonâ€™s disease and control patients using the micro-XANES technique. Journal of Biological Inorganic Chemistry, 2007, 12, 204-211.	2.6	35
28	Preparation of tissue samples for X-ray fluorescence microscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1531-1537.	2.9	63
29	Classification of Nerve Cells from Substantia Nigra of Patients with Parkinson's Disease and Amyotrophic Lateral Sclerosis with the Use of X-ray Fluorescence Microscopy and Multivariate Methods. Analytical Chemistry, 2005, 77, 2895-2900.	6.5	19