

Magdalena Szczerbowska-Boruchowska

List of Publications by Year in descending order

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29
papers

730
citations

623734

14
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526287

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30
all docs

30
docs citations

30
times ranked

959
citing authors

#	ARTICLE	IF	CITATIONS
1	Sources and fate of microplastics in marine and beach sediments of the Southern Baltic Sea—a preliminary study. <i>Environmental Science and Pollution Research</i> , 2017, 24, 7650-7661.	5.3	229
2	Biomolecular investigation of human substantia nigra in Parkinson's disease by synchrotron radiation Fourier transform infrared microspectroscopy. <i>Archives of Biochemistry and Biophysics</i> , 2007, 459, 241-248.	3.0	78
3	Preparation of tissue samples for X-ray fluorescence microscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1531-1537.	2.9	63
4	Sample thickness considerations for quantitative X-ray fluorescence analysis of the soft and skeletal tissues of the human body—a theoretical evaluation and experimental validation. <i>X-Ray Spectrometry</i> , 2012, 41, 328-337.	1.4	36
5	Investigations of differences in iron oxidation state inside single neurons from substantia nigra of Parkinson's disease and control patients using the micro-XANES technique. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 204-211.	2.6	35
6	X-ray fluorescence spectrometry, an analytical tool in neurochemical research. <i>X-Ray Spectrometry</i> , 2008, 37, 21-31.	1.4	29
7	Study of Cu chemical state inside single neurons from Parkinson's disease and control substantia nigra using the micro-XANES technique. <i>Journal of Trace Elements in Medicine and Biology</i> , 2008, 22, 183-188.	3.0	20
8	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. <i>Analytical Chemistry</i> , 2005, 77, 2895-2900.	6.5	19
9	Peripheral Vagus Nerve Stimulation Significantly Affects Lipid Composition and Protein Secondary Structure Within Dopamine-Related Brain Regions in Rats. <i>NeuroMolecular Medicine</i> , 2015, 17, 178-191.	3.4	19
10	FTIR imaging of the molecular burden around A β deposits in an early-stage 3-Tg-APP-PSP1-TAU mouse model of Alzheimer's disease. <i>Analyt, The</i> , 2017, 142, 156-168.	3.5	19
11	Molecular and elemental effects underlying the biochemical action of transcranial direct current stimulation (tDCS) in appetite control. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 199-209.	3.9	18
12	First step toward the "fingerprinting" of brain tumors based on synchrotron radiation X-ray fluorescence and multiple discriminant analysis. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 1217-1226.	2.6	15
13	Elemental micro-imaging and quantification of human substantia nigra using synchrotron radiation based x-ray fluorescence—in relation to Parkinson's disease. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 244104.	1.8	15
14	Synchrotron radiation based X-ray fluorescence shows changes in the elemental composition of the human substantia nigra in aged brains. <i>Metallomics</i> , 2015, 7, 1522-1531.	2.4	15
15	A synchrotron radiation micro-X-ray absorption near edge structure study of sulfur speciation in human brain tumors—a methodological approach. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 239-247.	3.0	14
16	Variability of protein and lipid composition of human substantia nigra in aging: Fourier transform infrared microspectroscopy study. <i>Neurochemistry International</i> , 2014, 76, 12-22.	3.8	14
17	The influence of electrical stimulation of vagus nerve on elemental composition of dopamine related brain structures in rats. <i>Neurochemistry International</i> , 2012, 61, 156-165.	3.8	12
18	The oxidation states and chemical environments of iron and zinc as potential indicators of brain tumour malignancy grade—a preliminary results. <i>Metallomics</i> , 2013, 5, 1547.	2.4	11

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19	The perspective of new multi-layer reference materials for confocal 3D micro X-ray fluorescence spectroscopy. <i>X-Ray Spectrometry</i> , 2012, 41, 273-278.	1.4	10
20	Soft X-ray induced radiation damage in thin freeze-dried brain samples studied by FTIR microscopy. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1218-1226.	2.4	10
21	An integrated experimental and analytical approach to the chemical state imaging of iron in brain gliomas using X-ray absorption near edge structure spectroscopy. <i>Analytica Chimica Acta</i> , 2011, 699, 153-160.	5.4	9
22	Model-based correction algorithm for Fourier Transform infrared microscopy measurements of complex tissue-substrate systems. <i>Analytica Chimica Acta</i> , 2020, 1103, 143-155.	5.4	9
23	On 2D-FTIR-XRF microscopy – A step forward correlative tissue studies by infrared and hard X-ray radiation. <i>Ultramicroscopy</i> , 2022, 232, 113408.	1.9	8
24	Feasibility study of elemental analysis of large population of formalin fixed paraffin embedded tissue samples – preliminary results. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 173, 105971.	2.9	7
25	Combined brain Fe, Cu, Zn and neurometabolite analysis – a new methodology for unraveling the efficacy of transcranial direct current stimulation (tDCS) in appetite control. <i>Metallomics</i> , 2018, 10, 397-405.	2.4	6
26	Data quantification procedures for a bench-top elemental microimaging of brain specimens for the clinical studies on the obesity treatment by transcranial direct current brain stimulation. <i>X-Ray Spectrometry</i> , 2017, 46, 388-396.	1.4	5
27	A METHODOLOGICAL APPROACH TO THE CHARACTERIZATION OF BRAIN GLIOMAS, BY MEANS OF SEMI-AUTOMATIC MORPHOMETRIC ANALYSIS. <i>Image Analysis and Stereology</i> , 2014, 33, 201.	0.9	3
28	Investigation of biochemical composition of adrenal gland tumors by means of FTIR. <i>Polish Journal of Pathology</i> , 2016, 1, 60-68.	0.3	2
29	Classification/Diagnosis of Brain Tumors Using Discriminant Function Analysis. <i>Tumors of the Central Nervous System</i> , 2014, , 3-18.	0.1	0