

Joanna Chwiej

List of Publications by Year in descending order

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papers

732
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516215

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43
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citing authors

#	ARTICLE	IF	CITATIONS
1	Altered Elemental Distribution in Male Rat Brain Tissue as a Predictor of Glioblastoma Multiforme Growthâ€”Studies Using SR-XRF Microscopy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 703.	1.8	5
2	Ketogenic diet impairs neurological development of neonatal rats and affects biochemical composition of maternal brains: evidence of functional recovery in pups. <i>Brain Structure and Function</i> , 2022, 227, 1099-1113.	1.2	8
3	Pollution from Transport: Detection of Tyre Particles in Environmental Samples. <i>Energies</i> , 2022, 15, 2816.	1.6	9
4	Biochemical changes of macrophages and U87MG cells occurring as a result of the exposure to iron oxide nanoparticles detected with the Raman microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121337.	2.0	2
5	The assessment of the usability of selected instrumental techniques for the elemental analysis of biomedical samples. <i>Scientific Reports</i> , 2021, 11, 3704.	1.6	26
6	The methods of vibrational microspectroscopy reveals long-term biochemical anomalies within the region of mechanical injury within the rat brain. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120214.	2.0	7
7	The influence of IONPs core size on their biocompatibility and activity in in vitro cellular models. <i>Scientific Reports</i> , 2021, 11, 21808.	1.6	7
8	The Use of Fourier Transform Infrared Microspectroscopy for the Determination of Biochemical Anomalies of the Hippocampal Formation Characteristic for the Kindling Model of Seizures. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4564-4579.	1.7	5
9	Comparison of ultrasmall IONPs and Fe salts biocompatibility and activity in multi-cellular in vitro models. <i>Scientific Reports</i> , 2020, 10, 15447.	1.6	11
10	Comparison of Elemental Anomalies Following Implantation of Different Cell Lines of Glioblastoma Multiforme in the Rat Brain: A Total Reflection X-ray Fluorescence Spectroscopy Study. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4447-4459.	1.7	7
11	Intravenously administered <sc>d</sc>-mannitol-coated maghemite nanoparticles cause elemental anomalies in selected rat organs. <i>Metallomics</i> , 2020, 12, 1811-1821.	1.0	2
12	FTIR microspectroscopy revealed biochemical changes in liver and kidneys as a result of exposure to low dose of iron oxide nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118355.	2.0	18
13	Organ Metallome Processed with Chemometric Methods Enable the Determination of Elements that May Serve as Markers of Exposure to Iron Oxide Nanoparticles in Male Rats. <i>Biological Trace Element Research</i> , 2020, 198, 602-616.	1.9	1
14	Biochemical Changes Indicate Developmental Stage in the Hippocampal Formation. <i>ACS Chemical Neuroscience</i> , 2019, 10, 628-635.	1.7	12
15	Elemental changes of hippocampal formation occurring during postnatal brain development. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 1-7.	1.5	6
16	Low Doses of Polyethylene Glycol Coated Iron Oxide Nanoparticles Cause Significant Elemental Changes within Main Organs. <i>Chemical Research in Toxicology</i> , 2018, 31, 876-884.	1.7	10
17	Various ketogenic diets can differently support brain resistance against experimentally evoked seizures and seizure-induced elemental anomalies of hippocampal formation. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 42, 50-58.	1.5	7
18	The influence of high fat diets with different ketogenic ratios on the hippocampal accumulation of creatine â€” FTIR microspectroscopy study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 13-22.	2.0	9

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19	The elemental changes occurring in the rat liver after exposure to PEG-coated iron oxide nanoparticles: total reflection x-ray fluorescence (TXRF) spectroscopy study. <i>Nanotoxicology</i> , 2017, 11, 1225-1236.	1.6	11
20	Elemental changes in the hippocampal formation following two different formulas of ketogenic diet: an X-ray fluorescence microscopy study. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 1277-1286.	1.1	8
21	The biochemical changes in hippocampal formation occurring in normal and seizure experiencing rats as a result of a ketogenic diet. <i>Analyst, The</i> , 2015, 140, 2190-2204.	1.7	19
22	The influence of the ketogenic diet on the elemental and biochemical compositions of the hippocampal formation. <i>Epilepsy and Behavior</i> , 2015, 49, 40-46.	0.9	10
23	Elemental anomalies in the hippocampal formation after repetitive electrical stimulation: an X-ray fluorescence microscopy study. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1209-1220.	1.1	12
24	Differences in the hippocampal frequency of creatine inclusions between the acute and latent phases of pilocarpine model defined using synchrotron radiation-based FTIR microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7337-7345.	1.9	12
25	Progress of elemental anomalies of hippocampal formation in the pilocarpine model of temporal lobe epilepsy – an X-ray fluorescence microscopy study. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 3071-3080.	1.9	29
26	Variations in elemental compositions of rat hippocampal formation between acute and latent phases of pilocarpine-induced epilepsy: an X-ray fluorescence microscopy study. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 731-739.	1.1	19
27	Synchrotron radiation Fourier-transform infrared and Raman microspectroscopy study showing an increased frequency of creatine inclusions in the rat hippocampal formation following pilocarpine-induced seizures. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2267-2274.	1.9	20
28	X-ray fluorescence analysis of long-term changes in the levels and distributions of trace elements in the rat brain following mechanical injury. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 275-283.	1.1	29
29	Neuroprotective action of FK-506 (tacrolimus) after seizures induced with pilocarpine: quantitative and topographic elemental analysis of brain tissue. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 283-289.	1.1	28
30	The use of cluster and discriminant analysis in the investigations of the role of trace metals in the pathogenesis of Parkinson's disease. <i>Journal of Trace Elements in Medicine and Biology</i> , 2010, 24, 78-88.	1.5	16
31	Synchrotron FTIR micro-spectroscopy study of the rat hippocampal formation after pilocarpine-evoked seizures. <i>Journal of Chemical Neuroanatomy</i> , 2010, 40, 140-147.	1.0	43
32	The role of trace elements in the pathogenesis and progress of pilocarpine-induced epileptic seizures. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1267-1274.	1.1	31
33	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.	1.5	20
34	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.	1.4	78
35	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.	1.1	35
36	Implementation of X-ray Fluorescence Microscopy for Investigation of Elemental Abnormalities in Amyotrophic Lateral Sclerosis. <i>Neurochemical Research</i> , 2006, 31, 321-331.	1.6	31

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37	Preparation of tissue samples for X-ray fluorescence microscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1531-1537.	1.5	63
38	Intraneuronal investigations of organic components and trace elements with the use of synchrotron radiation. <i>X-Ray Spectrometry</i> , 2005, 34, 514-520.	0.9	25
39	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.	3.2	19
40	Implementation of X-ray fluorescence microscopy for investigation of elemental abnormalities in central nervous system tissue. <i>Journal of Alloys and Compounds</i> , 2005, 401, 184-188.	2.8	6
41	Research in quantitative microscopic X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1517-1521.	1.5	16