

Petr Zach

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

374
citations

933447

10
h-index

839539

18
g-index

40
all docs

40
docs citations

40
times ranked

729
citing authors

#	ARTICLE	IF	CITATIONS
1	Behavioral, neurochemical and pharmaco-EEG profiles of the psychedelic drug 4-bromo-2,5-dimethoxyphenethylamine (2C-B) in rats. <i>Psychopharmacology</i> , 2013, 225, 75-93.	3.1	45
2	High-contrast X-ray micro-radiography and micro-CT of ex-vivo soft tissue murine organs utilizing ethanol fixation and large area photon-counting detector. <i>Scientific Reports</i> , 2016, 6, 30385.	3.3	40
3	Cellular and behavioural effects of a new steroidal inhibitor of the N-methyl-d-aspartate receptor 3 β -pregnanolone glutamate. <i>Neuropharmacology</i> , 2011, 61, 61-68.	4.1	35
4	Lateralization of hippocampal nitric oxide mediator system in people with Alzheimer disease, multi-infarct dementia and schizophrenia. <i>Neurochemistry International</i> , 2008, 53, 118-125.	3.8	28
5	Differential impact of stress on hypothalamic-pituitary-adrenal axis: Gene expression changes in Lewis and Fisher rats. <i>Psychoneuroendocrinology</i> , 2015, 53, 49-59.	2.7	22
6	Determinate growth is predominant and likely ancestral in squamate reptiles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202737.	2.6	19
7	Trans-generational neurochemical modulation of methamphetamine in the adult brain of the Wistar rat. <i>Archives of Toxicology</i> , 2017, 91, 3373-3384.	4.2	18
8	Volumetric Analysis of the Pons, Cerebellum and Hippocampi in Patients with Alzheimer's Disease. <i>Dementia and Geriatric Cognitive Disorders</i> , 2012, 34, 224-234.	1.5	16
9	Lateralization of 17 β -Hydroxysteroid Dehydrogenase Type 10 in Hippocampi of Demented and Psychotic People. <i>Dementia and Geriatric Cognitive Disorders</i> , 2008, 26, 193-198.	1.5	15
10	Ethanol fixation method for heart and lung imaging in micro-CT. <i>Japanese Journal of Radiology</i> , 2019, 37, 500-510.	2.4	12
11	Sex-dependent Actions of Amyloid Beta Peptides on Hippocampal Choline Carriers of Postnatal Rats. <i>Neurochemical Research</i> , 2006, 31, 351-360.	3.3	10
12	Universality of indeterminate growth in lizards rejected: the micro-CT reveals contrasting timing of growth cartilage persistence in iguanas, agamas, and chameleons. <i>Scientific Reports</i> , 2019, 9, 18913.	3.3	9
13	Regulation of 11 β -Hydroxysteroid Dehydrogenase Type 1 and 7 α -Hydroxylase CYP7B1 during Social Stress. <i>PLoS ONE</i> , 2014, 9, e89421.	2.5	9
14	Metabotropic glutamate receptor antagonists but not NMDA antagonists affect conditioned taste aversion acquisition in the parabrachial nucleus of rats. <i>Experimental Brain Research</i> , 2006, 169, 50-57.	1.5	8
15	Lesion of posterior parietal cortex in rats does not disrupt place avoidance based on either distal or proximal orienting cues. <i>Neuroscience Letters</i> , 2008, 445, 73-77.	2.1	8
16	Hippocampal Spatial Position Evaluation on MRI for Research and Clinical Practice. <i>PLoS ONE</i> , 2014, 9, e115174.	2.5	8
17	Compensatory Shift of Subcallosal Area and Paraterminal Gyrus White Matter Parameters on DTI in Patients with Alzheimer Disease. <i>Current Alzheimer Research</i> , 2018, 15, 590-599.	1.4	8
18	Effect of stress on structural brain asymmetry. <i>Neuroendocrinology Letters</i> , 2016, 37, 253-264.	0.2	8

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19	Asymmetric Changes in Limbic Cortex and Planum Temporale in Patients with Alzheimer Disease. <i>Current Alzheimer Research</i> , 2018, 15, 1361-1368.	1.4	7
20	Altered levels of urokinase on monocytes and in serum of children with AIDS; effects on lymphocyte activation and surface marker expression. <i>Journal of Leukocyte Biology</i> , 1998, 64, 198-202.	3.3	6
21	Imaging of Mouse Brain Fixated in Ethanol in Micro-CT. <i>BioMed Research International</i> , 2019, 2019, 1-7.	1.9	6
22	Exposure of Postnatal Rats to a Static Magnetic Field of 0.14 T Influences Functional Laterality of the Hippocampal High-Affinity Choline Uptake System in Adulthood; In vitro Test with Magnetic Nanoparticles. <i>Neurochemical Research</i> , 2005, 30, 253-262.	3.3	5
23	Morphology of the Vasculature and Blood Supply of the Brown Adipose Tissue Examined in an Animal Model by Micro-CT. <i>BioMed Research International</i> , 2020, 2020, 1-6.	1.9	5
24	Simple Method for Evaluation of Planum Temporale Pyramidal Neurons Shrinkage in Postmortem Tissue of Alzheimer Disease Patients. <i>BioMed Research International</i> , 2014, 2014, 1-6.	1.9	4
25	Planum Temporale Analysis Via a New Volumetric Method in Autoptic Brains of Demented and Psychotic Patients. <i>Current Alzheimer Research</i> , 2009, 6, 69-76.	1.4	3
26	Evaluation of sample holders designed for long-lasting X-ray micro-tomographic scans of ex-vivo soft tissue samples. <i>Journal of Instrumentation</i> , 2016, 11, C03005-C03005.	1.2	3
27	Difference in Subjective Accessibility of On Demand Recall of Visual, Taste, and Olfactory Memories. <i>BioMed Research International</i> , 2018, 2018, 1-6.	1.9	3
28	Micro-Computed Tomography Soft Tissue Biological Specimens Image Data Visualization. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4918.	2.5	3
29	Easy Identification of Optimal Coronal Slice on Brain Magnetic Resonance Imaging to Measure Hippocampal Area in Alzheimer's Disease Patients. <i>BioMed Research International</i> , 2020, 2020, 1-6.	1.9	2
30	Vascular supply of the anterior interventricular epicardial nerves and ventricular Purkinje fibers in the porcine hearts. <i>Journal of Morphology</i> , 2020, 281, 1476-1485.	1.2	2
31	Applicability of Large-Area Single-Photon Counting Detectors Timepix for High-Resolution and High-Contrast X-Ray Imaging of Biological Samples. <i>IEEE Transactions on Nuclear Science</i> , 2022, 69, 753-760.	2.0	2
32	A Three-Arm Parallel-group Exploratory Trial documents balance improvement without much evidence of white matter integrity changes in people with multiple sclerosis following two months ambulatory neuroproprioceptive "facilitation and inhibition" physical therapy. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, .	2.2	2
33	New Design of the Electrophoretic Part of CLARITY Technology for Confocal Light Microscopy of Rat and Human Brains. <i>Brain Sciences</i> , 2019, 9, 218.	2.3	1
34	Computer Kinesiology: New Diagnostic and Therapeutic Tool for Lower Back Pain Treatment (Pilot) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.9	1
35	Delayed effect of chronic administration of corticoids on the taste aversion learning. <i>Neuroendocrinology Letters</i> , 2011, 32, 90-5.	0.2	1
36	Brain lesion-induced alteration of selected phenotypic properties of spleen macrophages and their partial restoration in the course of foreign body reaction against intraperitoneally implanted polymers. <i>Journal of Materials Science: Materials in Medicine</i> , 1999, 10, 425-429.	3.6	0

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37	SMALL ANIMAL IMAGING WITH COMPACT MICRO-CT SCANNER WITH TIMEPIX QUAD DETECTOR. , 2014, , .		0