

Andrey E Akulov

List of Publications by Year in descending order

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papers

529
citations

623734

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44
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Histological validation of fast macromolecular proton fraction mapping as a quantitative myelin imaging method in the cuprizone demyelination model. <i>Scientific Reports</i> , 2017, 7, 46686.	3.3	66
2	Rapamycin suppresses brain aging in senescence-accelerated OXYS rats. <i>Aging</i> , 2013, 5, 474-484.	3.1	59
3	Quantitative Imaging of White and Gray Matter Remyelination in the Cuprizone Demyelination Model Using the Macromolecular Proton Fraction. <i>Cells</i> , 2019, 8, 1204.	4.1	38
4	Quantitative assessment of demyelination in ischemic stroke in vivo using macromolecular proton fraction mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 919-931.	4.3	37
5	High-resolution three-dimensional macromolecular proton fraction mapping for quantitative neuroanatomical imaging of the rodent brain in ultra-high magnetic fields. <i>NeuroImage</i> , 2017, 147, 985-993.	4.2	33
6	Design of protein homocystamides with enhanced tumor uptake properties for ¹⁹ F magnetic resonance imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 6943-6954.	3.0	30
7	Multifunctional human serum albumin-therapeutic nucleotide conjugate with redox and pH-sensitive drug release mechanism for cancer theranostics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3925-3930.	2.2	28
8	Proton magnetic resonance spectroscopy of brain metabolic shifts induced by acute administration of 2-deoxyglucose and lipopolysaccharides. <i>NMR in Biomedicine</i> , 2014, 27, 399-405.	2.8	27
9	Knockout Zbtb33 gene results in an increased locomotion, exploration and pre-pulse inhibition in mice. <i>Behavioural Brain Research</i> , 2016, 297, 76-83.	2.2	24
10	Effect of malate on the development of rotenone-induced brain changes in Wistar and OXYS rats: An MRI study. <i>Doklady Biological Sciences</i> , 2011, 437, 72-75.	0.6	17
11	Biotin-decorated anti-cancer nucleotide theranostic conjugate of human serum albumin: Where the seed meets the soil?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 260-264.	2.2	17
12	Stress-sensitive arterial hypertension, haemodynamic changes and brain metabolites in hypertensive ISIAH rats: MRI investigation. <i>Experimental Physiology</i> , 2017, 102, 523-532.	2.0	16
13	Alterations in pharmacological and behavioural responses in recombinant mouse line with an increased predisposition to catalepsy: role of the 5-HT _{1A} receptor. <i>British Journal of Pharmacology</i> , 2016, 173, 2147-2161.	5.4	15
14	Hereditary catalepsy in mice is associated with the brain dysmorphology and altered stress response. <i>Behavioural Brain Research</i> , 2013, 243, 53-60.	2.2	14
15	The Effect of Blood Contained in the Samples on the Metabolomic Profile of Mouse Brain Tissue: A Study by NMR Spectroscopy. <i>Molecules</i> , 2021, 26, 3096.	3.8	11
16	Measurement of viscous flow velocity and flow visualization using two magnetic resonance imagers. <i>Journal of Applied Mechanics and Technical Physics</i> , 2017, 58, 209-213.	0.5	10
17	Rational Design of Albumin Theranostic Conjugates for Gold Nanoparticles Anticancer Drugs: Where the Seed Meets the Soil?. <i>Biomedicines</i> , 2021, 9, 74.	3.2	10
18	Ligand-Directed Acid-Sensitive Amidophosphate 5-Trifluoromethyl-2-Deoxyuridine Conjugate as a Potential Theranostic Agent. <i>Bioconjugate Chemistry</i> , 2013, 24, 780-795.	3.6	8

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19	Alteration of the brain morphology and the response to the acute stress in the recombinant mouse lines with different predisposition to catalepsy. <i>Neuroscience Research</i> , 2017, 117, 14-21.	1.9	8
20	Nasal aerodynamics protects brain and lung from inhaled dust in subterranean diggers, <i>Ellobius talpinus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140919.	2.6	7
21	Comparative study of perception and processing of socially or sexually significant odor information in male rats with normal or accelerated senescence using fMRI. <i>Behavioural Brain Research</i> , 2015, 294, 89-94.	2.2	6
22	Cerebral arterial architectonics and CFD simulation in mice with type 1 diabetes mellitus of different duration. <i>Scientific Reports</i> , 2021, 11, 3969.	3.3	6
23	Neurometabolic Effect of Altaian Fungus <i>Ganoderma lucidum</i> (Reishi Mushroom) in Rats Under Moderate Alcohol Consumption. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 1128-1136.	2.4	5
24	Experimental measurements and visualisation of a viscous fluid flow in Y-branching modelling the common carotid artery bifurcation with MR and Doppler ultrasound velocimetry. <i>Journal of Physics: Conference Series</i> , 2016, 722, 012013.	0.4	5
25	Proton magnetic resonance spectroscopy of neurometabolites in the hippocampi of aggressive and tame male rats. <i>Russian Journal of Genetics: Applied Research</i> , 2016, 6, 430-436.	0.4	5
26	Tissue-Specific Ferritin- and GFP-Based Genetic Vectors Visualize Neurons by MRI in the Intact and Post-Ischemic Rat Brain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8951.	4.1	5
27	Reconstruction of Complex Vasculature by Varying the Slope of the Scan Plane in High-Field Magnetic Resonance Imaging. <i>Applied Magnetic Resonance</i> , 2016, 47, 23-39.	1.2	4
28	The neurochemical profile of the hippocampus in isoflurane-treated and unanesthetized rat pups. <i>Interdisciplinary Toxicology</i> , 2015, 8, 113-117.	1.0	3
29	Estimation of an area between the baseline and the effect curve parameter for lactate levels in the hippocampi of neonatal rats during anesthesia. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 150, 327-332.	2.8	3
30	Challenges and Practical Solutions to MRI and Histology Matching and Measurements Using Available ImageJ Software Tools. <i>Biomedicines</i> , 2022, 10, 1556.	3.2	3
31	Aerosol deposition in nasal passages of burrowing and ground rodents when breathing dust-laden air. <i>Biology Bulletin Reviews</i> , 2015, 5, 36-45.	0.9	2
32	High-resolution three-dimensional quantitative map of the macromolecular proton fraction distribution in the normal rat brain. <i>Data in Brief</i> , 2017, 10, 381-384.	1.0	2
33	In Vitro ¹ H NMR Metabolic Profiles of Liver, Brain, and Serum in Rats After Chronic Consumption of Alcohol. <i>Applied Magnetic Resonance</i> , 2021, 52, 661-675.	1.2	2
34	Construction and investigation of 3D vessels net of the brain according to MRI data using the method of variation of scanning plane. <i>Journal of Physics: Conference Series</i> , 2016, 722, 012029.	0.4	1
35	Opportunities of high-technology phenotyping by the NMR spectroscopy method by example of the metabolic response of the rat liver to the effect of alcohol and Reishi. <i>Russian Journal of Genetics: Applied Research</i> , 2016, 6, 485-490.	0.4	1
36	MRI study of the cuprizone-induced mouse model of multiple sclerosis: demyelination is not found after co-treatment with polyprenols (long-chain isoprenoid alcohols). <i>Journal of Physics: Conference Series</i> , 2016, 677, 012007.	0.4	1

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37	Magnetic Resonance Spectroscopy of Metabolic Changes in the Brains of Mice Given 2-Deoxy-D-Glucose and Lipopolysaccharide. <i>Neuroscience and Behavioral Physiology</i> , 2014, 44, 593-598.	0.4	0
38	Study of the neuronal response to olfactory stimuli in control and LPS-stimulated mice by functional magnetic resonance imaging. <i>Russian Journal of Genetics: Applied Research</i> , 2016, 6, 417-423.	0.4	0
39	Reconstruction of unbroken vasculature of mouse by varying the slope of the scan plane in MRI. <i>Journal of Physics: Conference Series</i> , 2016, 677, 012003.	0.4	0
40	Effect of type 1 diabetes mellitus of different duration on the Willisâ€™™ circle angioarchitectonics. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
41	Sex difference feeding behaviour of NOD SCID mice in a pharmacological model of type 1 diabetes. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2021, 105, 984-988.	2.2	0
42	The effect of a single administration of streptozotocin on hippocampus metabolites in NODSCID mice. <i>Vavilovskii Zhurnal Genetiki I Seleksii</i> , 2018, 22, 600-605.	1.1	0