Alexandra Badea

List of Publications by Year
in descending order

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Version: 2024-02-01

62 papers	2,671 citations	236925 25 h-index	206112 48 g-index
70 all docs	70 docs citations	70 times ranked	4057 citing authors

#	Article	IF	Citations
1	Anatomical and functional cardiac PCCT imaging pipeline for characterization of Apolipoprotein E mouse models. , 2022, , .		0
2	Microcephaly with altered cortical layering in GIT1 deficiency revealed by quantitative neuroimaging. Magnetic Resonance Imaging, 2021, 76, 26-38.	1.8	4
3	Likelihood ratio statistics for gene set enrichment in Alzheimer's disease pathways. Alzheimer's and Dementia, 2021, 17, 561-573.	0.8	4
4	Cerebral white matter connectivity, cognition, and age-related macular degeneration. NeuroImage: Clinical, 2021, 30, 102594.	2.7	11
5	GLIS1 regulates trabecular meshwork function and intraocular pressure and is associated with glaucoma in humans. Nature Communications, 2021, 12, 4877.	12.8	20
6	Age-Related Macular Degeneration and the Aging Brain. Innovation in Aging, 2021, 5, 156-156.	0.1	0
7	Optimizing protocols for white matter tractography in animal models of genetic AD risk. Alzheimer's and Dementia, 2020, 16, e047440.	0.8	0
8	Optimizing Diffusion Imaging Protocols for Structural Connectomics in Mouse Models of Neurological Conditions. Frontiers in Physics, 2020, 8, .	2.1	14
9	Î²-Arrestin-Biased Allosteric Modulator of NTSR1 Selectively Attenuates Addictive Behaviors. Cell, 2020, 181, 1364-1379.e14.	28.9	74
10	MRI-Based Deep Learning Segmentation and Radiomics of Sarcoma in Mice. Tomography, 2020, 6, 23-33.	1.8	25
11	MRI-based radiomics of sarcomas in the preclinical arm of a co-clinical trial. , 2020, , .		0
12	ANK2 autism mutation targeting giant ankyrin-B promotes axon branching and ectopic connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15262-15271.	7.1	78
13	Small Animal Multivariate Brain Analysis (SAMBA) â€“ a High Throughput Pipeline with a Validation Framework. Neuroinformatics, 2019, 17, 451-472.	2.8	42
14	Î²II-spectrin promotes mouse brain connectivity through stabilizing axonal plasma membranes and enabling axonal organelle transport. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15686-15695.	7.1	48
15	Magnetic resonance imaging of mouse brain networks plasticity following motor learning. PLoS ONE, 2019, 14, e0216596.	2.5	20
16	Multivariate MR biomarkers better predict cognitive dysfunction in mouse models of Alzheimer's disease. Magnetic Resonance Imaging, 2019, 60, 52-67.	1.8	16
17	Identifying Vulnerable Brain Networks in Mouse Models of Genetic Risk Factors for Late Onset Alzheimerâ€™s Disease. Frontiers in Neuroinformatics, 2019, 13, 72.	2.5	24
18	Connectome smoothing via low-rank approximations. IEEE Transactions on Medical Imaging, 2019, 38, 1446-1456.	8.9	15

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19	Applications of 3D printing in small animal magnetic resonance imaging. Journal of Medical Imaging, 2019, 6, 1.	1.5	1
20	Diffusion tensor imaging using multiple coils for mouse brain connectomics. NMR in Biomedicine, 2018, 31, e3921.	2.8	3
21	Repeated mild blast exposure in young adult rats results in dynamic and persistent microstructural changes in the brain. NeuroImage: Clinical, 2018, 18, 60-73.	2.7	28
22	P3â€070: ANALYSIS OF A SPORADIC MOUSE MODEL OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P1091.	0.8	0
23	Cover Image, Volume 31, Issue 6. NMR in Biomedicine, 2018, 31, e3817.	2.8	0
24	Whole mouse brain structural connectomics using magnetic resonance histology. Brain Structure and Function, 2018, 223, 4323-4335.	2.3	60
25	The organization of frequency and binaural cues in the gerbil inferior colliculus. Journal of Comparative Neurology, 2017, 525, 2050-2074.	1.6	10
26	Mouse model of rare TOR1A variant found in sporadic focal dystonia impairs domains affected in DYT1 dystonia patients and animal models. Neurobiology of Disease, 2016, 93, 137-145.	4.4	12
27	The fornix provides multiple biomarkers to characterize circuit disruption in a mouse model of Alzheimer's disease. NeuroImage, 2016, 142, 498-511.	4.2	30
28	Altered mGluR5-Homer scaffolds and corticostriatal connectivity in a Shank3 complete knockout model of autism. Nature Communications, 2016, 7, 11459.	12.8	292
29	Image-processing pipelines: applications in magnetic resonance histology. Proceedings of SPIE, 2016, , .	0.8	0
30	Localization of Metal Electrodes in the Intact Rat Brain Using Registration of 3D Microcomputed Tomography Images to a Magnetic Resonance Histology Atlas. ENeuro, 2015, 2, ENEURO.0017-15.2015.	1.9	7
31	A Diffusion MRI Tractography Connectome of the Mouse Brain and Comparison with Neuronal Tracer Data. Cerebral Cortex, 2015, 25, 4628-4637.	2.9	193
32	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. NeuroImage, 2015, 117, 408-416.	4.2	169
33	Transcript co-variance with Nestin in two mouse genetic reference populations identifies Lef1 as a novel candidate regulator of neural precursor cell proliferation in the adult hippocampus. Frontiers in Neuroscience, 2014, 8, 418.	2.8	11
34	A PIK3C3â€“Ankyrin-Bâ€“Dynactin pathway promotes axonal growth and multiorganelle transport. Journal of Cell Biology, 2014, 207, 735-752.	5.2	84
35	Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. NeuroToxicology, 2014, 42, 12-23.	3.0	22
36	Investigating the tradeoffs between spatial resolution and diffusion sampling for brain mapping with diffusion tractography: Time well spent?. Human Brain Mapping, 2014, 35, 5667-5685.	3.6	36

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37	A quantitative magnetic resonance histology atlas of postnatal rat brain development with regional estimates of growth and variability. NeuroImage, 2013, 71, 196-206.	4.2	102
38	Constructing a 4D murine cardiac micro-CT atlas for automated segmentation and phenotyping applications. , 2013, , .		6
39	Magnetic resonance microscopy. Studies in Health Technology and Informatics, 2013, 185, 153-84.	0.3	14
40	Registration-based segmentation of murine 4D cardiac micro-CT data using symmetric normalization. Physics in Medicine and Biology, 2012, 57, 6125-6145.	3.0	14
41	A prior feature SVM-MRF based method for mouse brain segmentation. NeuroImage, 2012, 59, 2298-2306.	4.2	32
42	A multidimensional magnetic resonance histology atlas of the Wistar rat brain. NeuroImage, 2012, 62, 1848-1856.	4.2	91
43	Quantitative mouse brain phenotyping based on single and multispectral MR protocols. NeuroImage, 2012, 63, 1633-1645.	4.2	31
44	Modern Trends in Imaging VII: Magnetic Resonance Microscopy. Analytical Cellular Pathology, 2012, 35, 205-227.	1.4	5
45	Magnetic resonance microscopy. Analytical Cellular Pathology, 2012, 35, 205-27.	1.4	3
46	Identifying Human Disease Genes through Cross-Species Gene Mapping of Evolutionary Conserved Processes. PLoS ONE, 2011, 6, e18612.	2.5	16
47	A symmetrical Waxholm canonical mouse brain for NeuroMaps. Journal of Neuroscience Methods, 2011, 195, 170-175.	2.5	23
48	Quantitative Neuromorphometry Using Magnetic Resonance Histology. Toxicologic Pathology, 2011, 39, 85-91.	1.8	13
49	Waxholm Space: An image-based reference for coordinating mouse brain research. NeuroImage, 2010, 53, 365-372.	4.2	236
50	Remote sites of structural atrophy predict later amyloid formation in a mouse model of Alzheimer's disease. NeuroImage, 2010, 50, 416-427.	4.2	42
51	Genetic dissection of the mouse brain using high-field magnetic resonance microscopy. NeuroImage, 2009, 45, 1067-1079.	4.2	48
52	Automated segmentation of mouse brain images using extended MRF. NeuroImage, 2009, 46, 717-725.	4.2	44
53	Genetic dissection of the mouse CNS using magnetic resonance microscopy. Current Opinion in Neurology, 2009, 22, 379-386.	3.6	17
54	Automated segmentation of the actively stained mouse brain using multi-spectral MR microscopy. NeuroImage, 2008, 39, 136-145.	4.2	61

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55	Small Animal Imaging with Magnetic Resonance Microscopy. ILAR Journal, 2008, 49, 35-53.	1.8	89
56	Neuroanatomical phenotypes in the Reeler mouse. NeuroImage, 2007, 34, 1363-1374.	4.2	60
57	High-throughput morphologic phenotyping of the mouse brain with magnetic resonance histology. NeuroImage, 2007, 37, 82-89.	4.2	115
58	Morphometric analysis of the C57BL/6J mouse brain. NeuroImage, 2007, 37, 683-693.	4.2	156
59	Automated segmentation of neuroanatomical structures in multispectral MR microscopy of the mouse brain. NeuroImage, 2005, 27, 425-435.	4.2	86
60	Surface visualization of electromagnetic brain activity. Journal of Neuroscience Methods, 2003, 127, 137-147.	2.5	5
61	Waxholm Space: Target Volumes for a Standard Coordinate System for the Mouse Brain. Frontiers in Neuroinformatics, 0, 3, .	2.5	0
62	Absolute Winding Number Differentiates Mouse Spatial Navigation Strategies With Genetic Risk for Alzheimerâ€™s Disease. Frontiers in Neuroscience, 0, 16, .	2.8	2