Alexandra Badea

List of Publications by Year
in descending order

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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	Altered mGluR5-Homer scaffolds and corticostriatal connectivity in a Shank3 complete knockout model of autism. Nature Communications, 2016, 7, 11459.	12.8	292
2	Waxholm Space: An image-based reference for coordinating mouse brain research. NeuroImage, 2010, 53, 365-372.	4.2	236
3	A Diffusion MRI Tractography Connectome of the Mouse Brain and Comparison with Neuronal Tracer Data. Cerebral Cortex, 2015, 25, 4628-4637.	2.9	193
4	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. NeuroImage, 2015, 117, 408-416.	4.2	169
5	Morphometric analysis of the C57BL/6J mouse brain. NeuroImage, 2007, 37, 683-693.	4.2	156
6	High-throughput morphologic phenotyping of the mouse brain with magnetic resonance histology. NeuroImage, 2007, 37, 82-89.	4.2	115
7	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
8	A multidimensional magnetic resonance histology atlas of the Wistar rat brain. NeuroImage, 2012, 62, 1848-1856.	4.2	91
9	Small Animal Imaging with Magnetic Resonance Microscopy. ILAR Journal, 2008, 49, 35-53.	1.8	89
10	Automated segmentation of neuroanatomical structures in multispectral MR microscopy of the mouse brain. NeuroImage, 2005, 27, 425-435.	4.2	86
11	A PIK3C3â€“Ankyrin-Bâ€“Dynactin pathway promotes axonal growth and multiorganelle transport. Journal of Cell Biology, 2014, 207, 735-752.	5.2	84
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	Î²-Arrestin-Biased Allosteric Modulator of NTSR1 Selectively Attenuates Addictive Behaviors. Cell, 2020, 181, 1364-1379.e14.	28.9	74
14	Automated segmentation of the actively stained mouse brain using multi-spectral MR microscopy. NeuroImage, 2008, 39, 136-145.	4.2	61
15	Neuroanatomical phenotypes in the Reeler mouse. NeuroImage, 2007, 34, 1363-1374.	4.2	60
16	Whole mouse brain structural connectomics using magnetic resonance histology. Brain Structure and Function, 2018, 223, 4323-4335.	2.3	60
17	Genetic dissection of the mouse brain using high-field magnetic resonance microscopy. NeuroImage, 2009, 45, 1067-1079.	4.2	48
18	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

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19	Automated segmentation of mouse brain images using extended MRF. NeuroImage, 2009, 46, 717-725.	4.2	44
20	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
21	Small Animal Multivariate Brain Analysis (SAMBA) â€“ a High Throughput Pipeline with a Validation Framework. Neuroinformatics, 2019, 17, 451-472.	2.8	42
22	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
23	A prior feature SVM-MRF based method for mouse brain segmentation. NeuroImage, 2012, 59, 2298-2306.	4.2	32
24	Quantitative mouse brain phenotyping based on single and multispectral MR protocols. NeuroImage, 2012, 63, 1633-1645.	4.2	31
25	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
26	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
27	MRI-Based Deep Learning Segmentation and Radiomics of Sarcoma in Mice. Tomography, 2020, 6, 23-33.	1.8	25
28	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
29	A symmetrical Waxholm canonical mouse brain for NeuroMaps. Journal of Neuroscience Methods, 2011, 195, 170-175.	2.5	23
30	Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. NeuroToxicology, 2014, 42, 12-23.	3.0	22
31	Magnetic resonance imaging of mouse brain networks plasticity following motor learning. PLoS ONE, 2019, 14, e0216596.	2.5	20
32	GLIS1 regulates trabecular meshwork function and intraocular pressure and is associated with glaucoma in humans. Nature Communications, 2021, 12, 4877.	12.8	20
33	Genetic dissection of the mouse CNS using magnetic resonance microscopy. Current Opinion in Neurology, 2009, 22, 379-386.	3.6	17
34	Identifying Human Disease Genes through Cross-Species Gene Mapping of Evolutionary Conserved Processes. PLoS ONE, 2011, 6, e18612.	2.5	16
35	Multivariate MR biomarkers better predict cognitive dysfunction in mouse models of Alzheimer's disease. Magnetic Resonance Imaging, 2019, 60, 52-67.	1.8	16
36	Connectome smoothing via low-rank approximations. IEEE Transactions on Medical Imaging, 2019, 38, 1446-1456.	8.9	15

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37	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
38	Optimizing Diffusion Imaging Protocols for Structural Connectomics in Mouse Models of Neurological Conditions. Frontiers in Physics, 2020, 8, .	2.1	14
39	Magnetic resonance microscopy. Studies in Health Technology and Informatics, 2013, 185, 153-84.	0.3	14
40	Quantitative Neuromorphometry Using Magnetic Resonance Histology. Toxicologic Pathology, 2011, 39, 85-91.	1.8	13
41	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
42	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
43	Cerebral white matter connectivity, cognition, and age-related macular degeneration. NeuroImage: Clinical, 2021, 30, 102594.	2.7	11
44	The organization of frequency and binaural cues in the gerbil inferior colliculus. Journal of Comparative Neurology, 2017, 525, 2050-2074.	1.6	10
45	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
46	Constructing a 4D murine cardiac micro-CT atlas for automated segmentation and phenotyping applications. , 2013, , .		6
47	Surface visualization of electromagnetic brain activity. Journal of Neuroscience Methods, 2003, 127, 137-147.	2.5	5
48	Modern Trends in Imaging VII: Magnetic Resonance Microscopy. Analytical Cellular Pathology, 2012, 35, 205-227.	1.4	5
49	Microcephaly with altered cortical layering in GIT1 deficiency revealed by quantitative neuroimaging. Magnetic Resonance Imaging, 2021, 76, 26-38.	1.8	4
50	Likelihood ratio statistics for gene set enrichment in Alzheimer's disease pathways. Alzheimer's and Dementia, 2021, 17, 561-573.	0.8	4
51	Diffusion tensor imaging using multiple coils for mouse brain connectomics. NMR in Biomedicine, 2018, 31, e3921.	2.8	3
52	Magnetic resonance microscopy. Analytical Cellular Pathology, 2012, 35, 205-27.	1.4	3
53	Absolute Winding Number Differentiates Mouse Spatial Navigation Strategies With Genetic Risk for Alzheimerâ€™s Disease. Frontiers in Neuroscience, 0, 16, .	2.8	2
54	Applications of 3D printing in small animal magnetic resonance imaging. Journal of Medical Imaging, 2019, 6, 1.	1.5	1

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55	Image-processing pipelines: applications in magnetic resonance histology. Proceedings of SPIE, 2016, , .	0.8	0
56	P3â€070: ANALYSIS OF A SPORADIC MOUSE MODEL OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P1091.	0.8	0
57	Cover Image, Volume 31, Issue 6. NMR in Biomedicine, 2018, 31, e3817.	2.8	0
58	Optimizing protocols for white matter tractography in animal models of genetic AD risk. Alzheimer's and Dementia, 2020, 16, e047440.	0.8	0
59	Waxholm Space: Target Volumes for a Standard Coordinate System for the Mouse Brain. Frontiers in Neuroinformatics, 0, 3, .	2.5	0
60	MRI-based radiomics of sarcomas in the preclinical arm of a co-clinical trial. , 2020, , .		0
61	Age-Related Macular Degeneration and the Aging Brain. Innovation in Aging, 2021, 5, 156-156.	0.1	0
62	Anatomical and functional cardiac PCCT imaging pipeline for characterization of Apolipoprotein E mouse models. , 2022, , .		0