AndrÃ¡s Jakab

List of Publications by Year
in descending order

60 papers	5,349 citations	236925 25 h-index	155660 55 g-index
70 all docs	70 docs citations	70 times ranked	7105 citing authors

#	Article	IF	Citations
1	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	8.9	3,589
2	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. PLoS ONE, 2015, 10, e0124126.	2.5	220
3	Cloud-Based Evaluation of Anatomical Structure Segmentation and Landmark Detection Algorithms: VISCERAL Anatomy Benchmarks. IEEE Transactions on Medical Imaging, 2016, 35, 2459-2475.	8.9	127
4	Connectivity-based parcellation reveals interhemispheric differences in the insula. Brain Topography, 2012, 25, 264-271.	1.8	120
5	Fetal functional imaging portrays heterogeneous development of emerging human brain networks. Frontiers in Human Neuroscience, 2014, 8, 852.	2.0	109
6	Cell therapy for human ischemic heart diseases: Critical review and summary of the clinical experiences. Journal of Molecular and Cellular Cardiology, 2014, 75, 12-24.	1.9	75
7	Generation of Individualized Thalamus Target Maps by Using Statistical Shape Models and Thalamocortical Tractography. American Journal of Neuroradiology, 2012, 33, 2110-2116.	2.4	69
8	Disrupted developmental organization of the structural connectome in fetuses with corpus callosum agenesis. NeuroImage, 2015, 111, 277-288.	4.2	63
9	An automatic multi-tissue human fetal brain segmentation benchmark using the Fetal Tissue Annotation Dataset. Scientific Data, 2021, 8, 167.	5.3	59
10	Creative music therapy to promote brain function and brain structure in preterm infants: A randomized controlled pilot study. NeuroImage: Clinical, 2020, 25, 102171.	2.7	51
11	Long-acting beneficial effect of percutaneously intramyocardially delivered secretome of apoptotic peripheral blood cells on porcine chronic ischemic left ventricular dysfunction. Biomaterials, 2014, 35, 3541-3550.	11.4	44
12	Glioma grade assessment by using histogram analysis of diffusion tensor imaging-derived maps. Neuroradiology, 2011, 53, 483-491.	2.2	43
13	Secretome of apoptotic peripheral blood cells (APOSEC) attenuates microvascular obstruction in a porcine closed chest reperfused acute myocardial infarction model: role of platelet aggregation and vasodilation. Basic Research in Cardiology, 2012, 107, 292.	5.9	37
14	Postoperative brain volumes are associated with one-year neurodevelopmental outcome in children with severe congenital heart disease. Scientific Reports, 2019, 9, 10885.	3.3	35
15	Validation of In utero Tractography of Human Fetal Commissural and Internal Capsule Fibers with Histological Structure Tensor Analysis. Frontiers in Neuroanatomy, 2015, 9, 164.	1.7	34
16	Sequential activation of different pathway networks in ischemia-affected and non-affected myocardium, inducing intrinsic remote conditioning to prevent left ventricular remodeling. Scientific Reports, 2017, 7, 43958.	3.3	33
17	In utero diffusion tensor imaging of the fetal brain: A reproducibility study. NeuroImage: Clinical, 2017, 15, 601-612.	2.7	33
18	Porcine model of progressive cardiac hypertrophy and fibrosis with secondary postcapillary pulmonary hypertension. Journal of Translational Medicine, 2017, 15, 202.	4.4	33

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19	Liposomal doxorubicin attenuates cardiotoxicity via induction of interferon-related DNA damage resistance. Cardiovascular Research, 2020, 116, 970-982.	3.8	32
20	In vivo MRI and ex vivo histological assessment of the cardioprotection induced by ischemic preconditioning, postconditioning and remote conditioning in a closed-chest porcine model of reperfused acute myocardial infarction: importance of microvasculature. Journal of Translational Medicine, 2017, 15, 67.	4.4	29
21	Delayed maturation of the structural brain connectome in neonates with congenital heart disease. Brain Communications, 2020, 2, fcaa209.	3.3	29
22	Time Course of Endothelium-Dependent and -Independent Coronary Vasomotor Response to Coronary Balloons and Stents. JACC: Cardiovascular Interventions, 2012, 5, 741-751.	2.9	28
23	Autistic Traits in Neurotypical Adults: Correlates of Graph Theoretical Functional Network Topology and White Matter Anisotropy Patterns. PLoS ONE, 2013, 8, e60982.	2.5	28
24	Effects of chronic peripheral olfactory loss on functional brain networks. Neuroscience, 2015, 310, 589-599.	2.3	28
25	Safety and efficacy of cardiopoietic stem cells in the treatment of post-infarction left-ventricular dysfunction â€" From cardioprotection to functional repair in a translational pig infarction model. Biomaterials, 2017, 122, 48-62.	11.4	28
26	Effect of Ischemic Preconditioning and Postconditioning on Exosome-Rich Fraction microRNA Levels, in Relation with Electrophysiological Parameters and Ventricular Arrhythmia in Experimental Closed-Chest Reperfused Myocardial Infarction. International Journal of Molecular Sciences, 2019, 20, 2140.	4.1	28
27	Mapping changes of in vivo connectivity patterns in the human mediodorsal thalamus: correlations with higher cognitive and executive functions. Brain Imaging and Behavior, 2012, 6, 472-483.	2.1	27
28	Microvascular perfusion of the placenta, developing fetal liver, and lungs assessed with intravoxel incoherent motion imaging. Journal of Magnetic Resonance Imaging, 2018, 48, 214-225.	3.4	27
29	Feasibility of Diffusion Tractography for the Reconstruction of Intra-Thalamic and Cerebello-Thalamic Targets for Functional Neurosurgery: A Multi-Vendor Pilot Study in Four Subjects. Frontiers in Neuroanatomy, 2016, 10, 76.	1.7	25
30	Fetal Cerebral Magnetic Resonance Imaging Beyond Morphology. Seminars in Ultrasound, CT and MRI, 2015, 36, 465-475.	1.5	24
31	Left temporal plane growth predicts language development in newborns with congenital heart disease. Brain, 2019, 142, 1270-1281.	7.6	22
32	Voxel-Wise Motion Artifacts in Population-Level Whole-Brain Connectivity Analysis of Resting-State fMRI. PLoS ONE, 2014, 9, e104947.	2.5	21
33	Network based statistics reveals trophic and neuroprotective effect of early high dose erythropoetin on brain connectivity in very preterm infants. NeuroImage: Clinical, 2019, 22, 101806.	2.7	21
34	The relationship between eye movement and vision develops before birth. Frontiers in Human Neuroscience, 2014, 8, 775.	2.0	17
35	Intra-voxel incoherent motion MRI of the living human foetus: technique and testâ€"retest repeatability. European Radiology Experimental, 2017, 1, 26.	3.4	12
36	Comparison of NOGA Endocardial Mapping and Cardiac Magnetic Resonance Imaging for Determining Infarct Size and Infarct Transmurality for Intramyocardial Injection Therapy Using Experimental Data. PLoS ONE, 2014, 9, e113245.	2.5	11

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37	Efficient Multi-class Fetal Brain Segmentation in High Resolution MRI Reconstructions with Noisy Labels. Lecture Notes in Computer Science, 2020, , 295-304.	1.3	11
38	Blepharophimosis mental retardation syndrome Sayâ€Barber/Biesecker/Youngâ€Simpson type â€" New findings with neuroimaging. American Journal of Medical Genetics, Part A, 2011, 155, 634-637.	1.2	10
39	Transcriptional Alterations by Ischaemic Postconditioning in a Pig Infarction Model: Impact on Microvascular Protection. International Journal of Molecular Sciences, 2019, 20, 344.	4.1	10
40	Developmental Pathoconnectomics and Advanced Fetal MRI. Topics in Magnetic Resonance Imaging, 2019, 28, 275-284.	1.2	9
41	Quantitative Hybrid Cardiac [18F]FDG-PET-MRI Images for Assessment of Cardiac Repair by Preconditioned Cardiosphere-Derived Cells. Molecular Therapy - Methods and Clinical Development, 2020, 18, 354-366.	4.1	9
42	Mental development is associated with cortical connectivity of the ventral and nonspecific thalamus of preterm newborns. Brain and Behavior, 2020, 10, e01786.	2.2	8
43	Annotating Medical Image Data. , 2017, , 45-67.		8
44	Longitudinal Analysis of Fetal MRI in Patients with Prenatal Spina Bifida Repair. Lecture Notes in Computer Science, 2019, , 161-170.	1.3	7
45	A computational model for bipolar deep brain stimulation of the subthalamic nucleus. , 2014, 2014, 6258-61.		6
46	Tracing the structural origins of atypical language representation: consequences of prenatal mirror-imaged brain asymmetries in a dizygotic twin couple. Brain Structure and Function, 2018, 223, 3757-3767.	2.3	6
47	Emerging magnetic resonance imaging techniques in open spina bifida in utero. European Radiology Experimental, 2021, 5, 23.	3.4	5
48	Intrinsic remote conditioning of the myocardium as a comprehensive cardiac response to ischemia and reperfusion. Oncotarget, 2017, 8, 67227-67240.	1.8	5
49	Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling. , 2014, , .		4
50	Inhibition is associated with whole-brain structural brain connectivity on network level in school-aged children born very preterm and at term. NeuroImage, 2020, 218, 116937.	4.2	4
51	Modeling Fetal Cortical Expansion Using Graph-Regularized Gompertz Models. Lecture Notes in Computer Science, 2016, , 247-254.	1.3	4
52	Long-Term Outcome of Combined (Percutaneous Intramyocardial and Intracoronary) Application of Autologous Bone Marrow Mononuclear Cells Post Myocardial Infarction: The 5-Year MYSTAR Study. PLoS ONE, 2016, 11, e0164908.	2.5	4
53	Synthetic Magnetic Resonance Images for Domain Adaptation: Application to Fetal Brain Tissue Segmentation. , 2022, , .		4
54	A Fetal Brain magnetic resonance Acquisition Numerical phantom (FaBiAN). Scientific Reports, 2022, 12, .	3.3	4

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55	Cerebral desaturation during neonatal congenital heart surgery is associated with perioperative brain structure alterations but not with neurodevelopmental outcome at 1 year. European Journal of Cardio-thoracic Surgery, 2022, 62, .	1.4	3
56	Ethical and Privacy Aspects of Using Medical Image Data. , 2017, , 33-43.		2
57	Implicit Modeling With Uncertainty Estimation For Intravoxel Incoherent Motion Imaging. , 2019, , .		2
58	Quantitative Evaluation of Enhanced Multi-plane Clinical Fetal Diffusion MRI with a Crossing-Fiber Phantom. Lecture Notes in Computer Science, 2021, , 12-22.	1.3	2
59	Through-Plane Super-Resolution With Autoencoders in Diffusion Magnetic Resonance Imaging of the Developing Human Brain. Frontiers in Neurology, 2022, 13, 827816.	2.4	2
60	Functional Imaging of the Prenatal Brain. , 2016, , 429-437.		1