

# Andrs Jakab

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

3,303  
citations

21  
h-index

57  
g-index

70  
ext. papers

4,315  
ext. citations

5  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
60	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1993-2024	11.7	2132
59	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124126	3.7	127
58	Connectivity-based parcellation reveals interhemispheric differences in the insula. <i>Brain Topography</i> , <b>2012</b> , 25, 264-71	4.3	90
57	Cloud-Based Evaluation of Anatomical Structure Segmentation and Landmark Detection Algorithms: VISCERAL Anatomy Benchmarks. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 2459-2475	11.7	89
56	Fetal functional imaging portrays heterogeneous development of emerging human brain networks. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 852	3.3	77
55	Cell therapy for human ischemic heart diseases: critical review and summary of the clinical experiences. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2014</b> , 75, 12-24	5.8	63
54	Generation of individualized thalamus target maps by using statistical shape models and thalamocortical tractography. <i>American Journal of Neuroradiology</i> , <b>2012</b> , 33, 2110-6	4.4	52
53	Disrupted developmental organization of the structural connectome in fetuses with corpus callosum agenesis. <i>NeuroImage</i> , <b>2015</b> , 111, 277-88	7.9	50
52	Long-acting beneficial effect of percutaneously intramyocardially delivered secretome of apoptotic peripheral blood cells on porcine chronic ischemic left ventricular dysfunction. <i>Biomaterials</i> , <b>2014</b> , 35, 3541-50	15.6	37
51	Glioma grade assessment by using histogram analysis of diffusion tensor imaging-derived maps. <i>Neuroradiology</i> , <b>2011</b> , 53, 483-91	3.2	32
50	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. <i>Basic Research in Cardiology</i> , <b>2012</b> , 107, 292	11.8	30
49	Sequential activation of different pathway networks in ischemia-affected and non-affected myocardium, inducing intrinsic remote conditioning to prevent left ventricular remodeling. <i>Scientific Reports</i> , <b>2017</b> , 7, 43958	4.9	26
48	Creative music therapy to promote brain function and brain structure in preterm infants: A randomized controlled pilot study. <i>NeuroImage: Clinical</i> , <b>2020</b> , 25, 102171	5.3	26
47	diffusion tensor imaging of the fetal brain: A reproducibility study. <i>NeuroImage: Clinical</i> , <b>2017</b> , 15, 601-612	5.3	26
46	Validation of In utero Tractography of Human Fetal Commissural and Internal Capsule Fibers with Histological Structure Tensor Analysis. <i>Frontiers in Neuroanatomy</i> , <b>2015</b> , 9, 164	3.6	26
45	Autistic traits in neurotypical adults: correlates of graph theoretical functional network topology and white matter anisotropy patterns. <i>PLoS ONE</i> , <b>2013</b> , 8, e60982	3.7	26
44	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. <i>Journal of Translational Medicine</i> , <b>2017</b> , 15, 67	8.5	24

43	Mapping changes of in vivo connectivity patterns in the human mediodorsal thalamus: correlations with higher cognitive and executive functions. <i>Brain Imaging and Behavior</i> , <b>2012</b> , 6, 472-83	4.1	24
42	Time course of endothelium-dependent and -independent coronary vasomotor response to coronary balloons and stents. Comparison of plain and drug-eluting balloons and stents. <i>JACC: Cardiovascular Interventions</i> , <b>2012</b> , 5, 741-51	5	23
41	Safety and efficacy of cardiopoietic stem cells in the treatment of post-infarction left-ventricular dysfunction - From cardioprotection to functional repair in a translational pig infarction model. <i>Biomaterials</i> , <b>2017</b> , 122, 48-62	15.6	22
40	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. <i>Frontiers in Neuroanatomy</i> , <b>2016</b> , 10, 76	3.6	21
39	Microvascular perfusion of the placenta, developing fetal liver, and lungs assessed with intravoxel incoherent motion imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 48, 214-225	5.6	20
38	Effects of chronic peripheral olfactory loss on functional brain networks. <i>Neuroscience</i> , <b>2015</b> , 310, 589-99	9.9	19
37	Liposomal doxorubicin attenuates cardiotoxicity via induction of interferon-related DNA damage resistance. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 970-982	9.9	19
36	Voxel-wise motion artifacts in population-level whole-brain connectivity analysis of resting-state FMRI. <i>PLoS ONE</i> , <b>2014</b> , 9, e104947	3.7	19
35	Porcine model of progressive cardiac hypertrophy and fibrosis with secondary postcapillary pulmonary hypertension. <i>Journal of Translational Medicine</i> , <b>2017</b> , 15, 202	8.5	18
34	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. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
33	Network based statistics reveals trophic and neuroprotective effect of early high dose erythropoietin on brain connectivity in very preterm infants. <i>NeuroImage: Clinical</i> , <b>2019</b> , 22, 101806	5.3	16
32	Fetal Cerebral Magnetic Resonance Imaging Beyond Morphology. <i>Seminars in Ultrasound, CT and MRI</i> , <b>2015</b> , 36, 465-75	1.7	16
31	Postoperative brain volumes are associated with one-year neurodevelopmental outcome in children with severe congenital heart disease. <i>Scientific Reports</i> , <b>2019</b> , 9, 10885	4.9	14
30	The relationship between eye movement and vision develops before birth. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 775	3.3	12
29	Left temporal plane growth predicts language development in newborns with congenital heart disease. <i>Brain</i> , <b>2019</b> , 142, 1270-1281	11.2	9
28	An automatic multi-tissue human fetal brain segmentation benchmark using the Fetal Tissue Annotation Dataset. <i>Scientific Data</i> , <b>2021</b> , 8, 167	8.2	9
27	Transcriptional Alterations by Ischaemic Postconditioning in a Pig Infarction Model: Impact on Microvascular Protection. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	8
26	Intra-voxel incoherent motion MRI of the living human foetus: technique and test-retest repeatability. <i>European Radiology Experimental</i> , <b>2017</b> , 1, 26	4.5	8

25	Comparison of NOGA endocardial mapping and cardiac magnetic resonance imaging for determining infarct size and infarct transmuralty for intramyocardial injection therapy using experimental data. <i>PLoS ONE</i> , <b>2014</b> , 9, e113245	3.7	7
24	Blepharophimosis mental retardation syndrome Say-Barber/Biesecker/Young-Simpson type - new findings with neuroimaging. <i>American Journal of Medical Genetics, Part A</i> , <b>2011</b> , 155A, 634-7	2.5	7
23	Quantitative Hybrid Cardiac [F]FDG-PET-MRI Images for Assessment of Cardiac Repair by Preconditioned Cardiosphere-Derived Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2020</b> , 18, 354-366	6.4	5
22	Longitudinal Analysis of Fetal MRI in Patients with Prenatal Spina Bifida Repair. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 161-170	0.9	5
21	Delayed maturation of the structural brain connectome in neonates with congenital heart disease. <i>Brain Communications</i> , <b>2020</b> , 2, fcaa209	4.5	5
20	Developmental Pathoconnectomics and Advanced Fetal MRI. <i>Topics in Magnetic Resonance Imaging</i> , <b>2019</b> , 28, 275-284	2.3	5
19	Tracing the structural origins of atypical language representation: consequences of prenatal mirror-imaged brain asymmetries in a dizygotic twin couple. <i>Brain Structure and Function</i> , <b>2018</b> , 223, 3754-3767 <sup>4</sup>		
18	A computational model for bipolar deep brain stimulation of the subthalamic nucleus. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 6258-61	0.9	4
17	Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling <b>2014</b> ,		4
16	Long-Term Outcome of Combined (Percutaneous Intramyocardial and Intracoronary) Application of Autologous Bone Marrow Mononuclear Cells Post Myocardial Infarction: The 5-Year MYSTAR Study. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164908	3.7	4
15	Intrinsic remote conditioning of the myocardium as a comprehensive cardiac response to ischemia and reperfusion. <i>Oncotarget</i> , <b>2017</b> , 8, 67227-67240	3.3	3
14	Efficient Multi-class Fetal Brain Segmentation in High Resolution MRI Reconstructions with Noisy Labels. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 295-304	0.9	3
13	Modeling Fetal Cortical Expansion Using Graph-Regularized Gompertz Models. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 247-254	0.9	3
12	Annotating Medical Image Data <b>2017</b> , 45-67		3
11	Inhibition is associated with whole-brain structural brain connectivity on network level in school-aged children born very preterm and at term. <i>NeuroImage</i> , <b>2020</b> , 218, 116937	7.9	2
10	Implicit Modeling With Uncertainty Estimation For Intravoxel Incoherent Motion Imaging <b>2019</b> ,		2
9	In utero diffusion tensor imaging of the fetal brain: a reproducibility study		2
8	Mental development is associated with cortical connectivity of the ventral and nonspecific thalamus of preterm newborns. <i>Brain and Behavior</i> , <b>2020</b> , 10, e01786	3.4	2

7	Ethical and Privacy Aspects of Using Medical Image Data <b>2017</b> , 33-43		1
6	Mental development is associated with cortical connectivity of the ventral and nonspecific thalamus of preterm newborns		1
5	Network based statistics reveals trophic and neuroprotective effect of early high dose erythropoetin on brain connectivity in very preterm infants		1
4	Functional Imaging of the Prenatal Brain <b>2016</b> , 429-437		1
3	Quantitative Evaluation of Enhanced Multi-plane Clinical Fetal Diffusion MRI with a Crossing-Fiber Phantom. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12-22	0.9	1
2	Through-Plane Super-Resolution With Autoencoders in Diffusion Magnetic Resonance Imaging of the Developing Human Brain.. <i>Frontiers in Neurology</i> , <b>2022</b> , 13, 827816	4.1	1
1	Emerging magnetic resonance imaging techniques in open spina bifida in utero. <i>European Radiology Experimental</i> , <b>2021</b> , 5, 23	4.5	0