

Andrs Jakab

List of Publications by Year in Descending Order

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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 | Through-Plane Super-Resolution With Autoencoders in Diffusion Magnetic Resonance Imaging of the Developing Human Brain.. <i>Frontiers in Neurology</i> , 2022 , 13, 827816 | 4.1 | 1 |
| 59 | Emerging magnetic resonance imaging techniques in open spina bifida in utero. <i>European Radiology Experimental</i> , 2021 , 5, 23 | 4.5 | 0 |
| 58 | An automatic multi-tissue human fetal brain segmentation benchmark using the Fetal Tissue Annotation Dataset. <i>Scientific Data</i> , 2021 , 8, 167 | 8.2 | 9 |
| 57 | Quantitative Evaluation of Enhanced Multi-plane Clinical Fetal Diffusion MRI with a Crossing-Fiber Phantom. <i>Lecture Notes in Computer Science</i> , 2021 , 12-22 | 0.9 | 1 |
| 56 | 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> , 2020 , 18, 354-366 | 6.4 | 5 |
| 55 | 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> , 2020 , 218, 116937 | 7.9 | 2 |
| 54 | Creative music therapy to promote brain function and brain structure in preterm infants: A randomized controlled pilot study. <i>NeuroImage: Clinical</i> , 2020 , 25, 102171 | 5.3 | 26 |
| 53 | Liposomal doxorubicin attenuates cardiotoxicity via induction of interferon-related DNA damage resistance. <i>Cardiovascular Research</i> , 2020 , 116, 970-982 | 9.9 | 19 |
| 52 | Efficient Multi-class Fetal Brain Segmentation in High Resolution MRI Reconstructions with Noisy Labels. <i>Lecture Notes in Computer Science</i> , 2020 , 295-304 | 0.9 | 3 |
| 51 | Delayed maturation of the structural brain connectome in neonates with congenital heart disease. <i>Brain Communications</i> , 2020 , 2, fcaa209 | 4.5 | 5 |
| 50 | Mental development is associated with cortical connectivity of the ventral and nonspecific thalamus of preterm newborns. <i>Brain and Behavior</i> , 2020 , 10, e01786 | 3.4 | 2 |
| 49 | Transcriptional Alterations by Ischaemic Postconditioning in a Pig Infarction Model: Impact on Microvascular Protection. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 8 |
| 48 | 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> , 2019 , 20, | 6.3 | 16 |
| 47 | Network based statistics reveals trophic and neuroprotective effect of early high dose erythropoetin on brain connectivity in very preterm infants. <i>NeuroImage: Clinical</i> , 2019 , 22, 101806 | 5.3 | 16 |
| 46 | Left temporal plane growth predicts language development in newborns with congenital heart disease. <i>Brain</i> , 2019 , 142, 1270-1281 | 11.2 | 9 |
| 45 | Implicit Modeling With Uncertainty Estimation For Intravoxel Incoherent Motion Imaging 2019 , | | 2 |
| 44 | Postoperative brain volumes are associated with one-year neurodevelopmental outcome in children with severe congenital heart disease. <i>Scientific Reports</i> , 2019 , 9, 10885 | 4.9 | 14 |

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| 43 | Longitudinal Analysis of Fetal MRI in Patients with Prenatal Spina Bifida Repair. <i>Lecture Notes in Computer Science</i> , 2019 , 161-170 | 0.9 | 5 |
| 42 | Developmental Pathoconnectomics and Advanced Fetal MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 275-284 | 2.3 | 5 |
| 41 | Microvascular perfusion of the placenta, developing fetal liver, and lungs assessed with intravoxel incoherent motion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 214-225 | 5.6 | 20 |
| 40 | 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> , 2018 , 223, 3754-3767 ⁴ | | |
| 39 | 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> , 2017 , 7, 43958 | 4.9 | 26 |
| 38 | Ethical and Privacy Aspects of Using Medical Image Data 2017 , 33-43 | | 1 |
| 37 | 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> , 2017 , 122, 48-62 | 15.6 | 22 |
| 36 | Porcine model of progressive cardiac hypertrophy and fibrosis with secondary postcapillary pulmonary hypertension. <i>Journal of Translational Medicine</i> , 2017 , 15, 202 | 8.5 | 18 |
| 35 | Intra-voxel incoherent motion MRI of the living human foetus: technique and test-retest repeatability. <i>European Radiology Experimental</i> , 2017 , 1, 26 | 4.5 | 8 |
| 34 | diffusion tensor imaging of the fetal brain: A reproducibility study. <i>NeuroImage: Clinical</i> , 2017 , 15, 601-613 ³ | 15.3 | 26 |
| 33 | 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> , 2017 , 15, 67 | 8.5 | 24 |
| 32 | Intrinsic remote conditioning of the myocardium as a comprehensive cardiac response to ischemia and reperfusion. <i>Oncotarget</i> , 2017 , 8, 67227-67240 | 3.3 | 3 |
| 31 | Annotating Medical Image Data 2017 , 45-67 | | 3 |
| 30 | Cloud-Based Evaluation of Anatomical Structure Segmentation and Landmark Detection Algorithms: VISCERAL Anatomy Benchmarks. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2459-2475 ^{11.7} | | 89 |
| 29 | 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> , 2016 , 11, e0164908 | 3.7 | 4 |
| 28 | Modeling Fetal Cortical Expansion Using Graph-Regularized Gompertz Models. <i>Lecture Notes in Computer Science</i> , 2016 , 247-254 | 0.9 | 3 |
| 27 | 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> , 2016 , 10, 76 | 3.6 | 21 |
| 26 | Functional Imaging of the Prenatal Brain 2016 , 429-437 | | 1 |

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| 25 | Disrupted developmental organization of the structural connectome in fetuses with corpus callosum agenesis. <i>NeuroImage</i> , 2015 , 111, 277-88 | 7.9 | 50 |
| 24 | Effects of chronic peripheral olfactory loss on functional brain networks. <i>Neuroscience</i> , 2015 , 310, 589-99 | 3.9 | 19 |
| 23 | Validation of In utero Tractography of Human Fetal Commissural and Internal Capsule Fibers with Histological Structure Tensor Analysis. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 164 | 3.6 | 26 |
| 22 | MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. <i>PLoS ONE</i> , 2015 , 10, e0124126 | 3.7 | 127 |
| 21 | Fetal Cerebral Magnetic Resonance Imaging Beyond Morphology. <i>Seminars in Ultrasound, CT and MRI</i> , 2015 , 36, 465-75 | 1.7 | 16 |
| 20 | The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1993-2024 | 11.7 | 2132 |
| 19 | 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> , 2014 , 2014, 6258-61 | 0.9 | 4 |
| 18 | Cell therapy for human ischemic heart diseases: critical review and summary of the clinical experiences. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 75, 12-24 | 5.8 | 63 |
| 17 | Long-acting beneficial effect of percutaneously intramyocardially delivered secretome of apoptotic peripheral blood cells on porcine chronic ischemic left ventricular dysfunction. <i>Biomaterials</i> , 2014 , 35, 3541-50 | 15.6 | 37 |
| 16 | Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling 2014 , | | 4 |
| 15 | Voxel-wise motion artifacts in population-level whole-brain connectivity analysis of resting-state FMRI. <i>PLoS ONE</i> , 2014 , 9, e104947 | 3.7 | 19 |
| 14 | 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> , 2014 , 9, e113245 | 3.7 | 7 |
| 13 | The relationship between eye movement and vision develops before birth. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 775 | 3.3 | 12 |
| 12 | Fetal functional imaging portrays heterogeneous development of emerging human brain networks. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 852 | 3.3 | 77 |
| 11 | Autistic traits in neurotypical adults: correlates of graph theoretical functional network topology and white matter anisotropy patterns. <i>PLoS ONE</i> , 2013 , 8, e60982 | 3.7 | 26 |
| 10 | 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> , 2012 , 6, 472-83 | 4.1 | 24 |
| 9 | 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> , 2012 , 5, 741-51 | 5 | 23 |
| 8 | 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> , 2012 , 107, 292 | 11.8 | 30 |

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| 7 | Connectivity-based parcellation reveals interhemispheric differences in the insula. <i>Brain Topography</i> , 2012 , 25, 264-71 | 4.3 | 90 |
| 6 | Generation of individualized thalamus target maps by using statistical shape models and thalamocortical tractography. <i>American Journal of Neuroradiology</i> , 2012 , 33, 2110-6 | 4.4 | 52 |
| 5 | Glioma grade assessment by using histogram analysis of diffusion tensor imaging-derived maps. <i>Neuroradiology</i> , 2011 , 53, 483-91 | 3.2 | 32 |
| 4 | Blepharophimosis mental retardation syndrome Say-Barber/Biesecker/Young-Simpson type - new findings with neuroimaging. <i>American Journal of Medical Genetics, Part A</i> , 2011 , 155A, 634-7 | 2.5 | 7 |
| 3 | Mental development is associated with cortical connectivity of the ventral and nonspecific thalamus of preterm newborns | | 1 |
| 2 | Network based statistics reveals trophic and neuroprotective effect of early high dose erythropoetin on brain connectivity in very preterm infants | | 1 |
| 1 | In utero diffusion tensor imaging of the fetal brain: a reproducibility study | | 2 |