

Andr s Jakob

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

5,349
citations

236612

25
h-index

155451

55
g-index

70
all docs

70
docs citations

70
times ranked

7105
citing authors

#	ARTICLE	IF	CITATIONS
1	Cerebral desaturation during neonatal congenital heart surgery is associated with perioperative brain structure alterations but not with neurodevelopmental outcome at 1 year. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 62, .	0.6	3
2	Synthetic Magnetic Resonance Images for Domain Adaptation: Application to Fetal Brain Tissue Segmentation. , 2022, , .		4
3	Through-Plane Super-Resolution With Autoencoders in Diffusion Magnetic Resonance Imaging of the Developing Human Brain. <i>Frontiers in Neurology</i> , 2022, 13, 827816.	1.1	2
4	A Fetal Brain magnetic resonance Acquisition Numerical phantom (FaBiAN). <i>Scientific Reports</i> , 2022, 12, .	1.6	4
5	Emerging magnetic resonance imaging techniques in open spina bifida in utero. <i>European Radiology Experimental</i> , 2021, 5, 23.	1.7	5
6	An automatic multi-tissue human fetal brain segmentation benchmark using the Fetal Tissue Annotation Dataset. <i>Scientific Data</i> , 2021, 8, 167.	2.4	59
7	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.	1.0	2
8	Liposomal doxorubicin attenuates cardiotoxicity via induction of interferon-related DNA damage resistance. <i>Cardiovascular Research</i> , 2020, 116, 970-982.	1.8	32
9	Mental development is associated with cortical connectivity of the ventral and nonspecific thalamus of preterm newborns. <i>Brain and Behavior</i> , 2020, 10, e01786.	1.0	8
10	Quantitative Hybrid Cardiac [18F]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.	1.8	9
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> , 2020, 218, 116937.	2.1	4
12	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.	1.4	51
13	Efficient Multi-class Fetal Brain Segmentation in High Resolution MRI Reconstructions with Noisy Labels. <i>Lecture Notes in Computer Science</i> , 2020, , 295-304.	1.0	11
14	Delayed maturation of the structural brain connectome in neonates with congenital heart disease. <i>Brain Communications</i> , 2020, 2, fcaa209.	1.5	29
15	Implicit Modeling With Uncertainty Estimation For Intravoxel Incoherent Motion Imaging. , 2019, , .		2
16	Postoperative brain volumes are associated with one-year neurodevelopmental outcome in children with severe congenital heart disease. <i>Scientific Reports</i> , 2019, 9, 10885.	1.6	35
17	Transcriptional Alterations by Ischaemic Postconditioning in a Pig Infarction Model: Impact on Microvascular Protection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 344.	1.8	10
18	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, 2140.	1.8	28

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19	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.	1.4	21
20	Left temporal plane growth predicts language development in newborns with congenital heart disease. <i>Brain</i> , 2019, 142, 1270-1281.	3.7	22
21	Developmental Pathoconnectomics and Advanced Fetal MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 275-284.	0.7	9
22	Longitudinal Analysis of Fetal MRI in Patients with Prenatal Spina Bifida Repair. <i>Lecture Notes in Computer Science</i> , 2019, , 161-170.	1.0	7
23	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.	1.9	27
24	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, 3757-3767.	1.2	6
25	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.	1.6	33
26	Ethical and Privacy Aspects of Using Medical Image Data. , 2017, , 33-43.		2
27	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.	5.7	28
28	In utero diffusion tensor imaging of the fetal brain: A reproducibility study. <i>NeuroImage: Clinical</i> , 2017, 15, 601-612.	1.4	33
29	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.	1.8	29
30	Porcine model of progressive cardiac hypertrophy and fibrosis with secondary postcapillary pulmonary hypertension. <i>Journal of Translational Medicine</i> , 2017, 15, 202.	1.8	33
31	Intra-voxel incoherent motion MRI of the living human foetus: technique and test “retest repeatability. <i>European Radiology Experimental</i> , 2017, 1, 26.	1.7	12
32	Annotating Medical Image Data. , 2017, , 45-67.		8
33	Intrinsic remote conditioning of the myocardium as a comprehensive cardiac response to ischemia and reperfusion. <i>Oncotarget</i> , 2017, 8, 67227-67240.	0.8	5
34	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.	0.9	25
35	Functional Imaging of the Prenatal Brain. , 2016, , 429-437.		1
36	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.	5.4	127

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37	Modeling Fetal Cortical Expansion Using Graph-Regularized Gompertz Models. Lecture Notes in Computer Science, 2016, , 247-254.	1.0	4
38	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.	1.1	4
39	Validation of In utero Tractography of Human Fetal Commissural and Internal Capsule Fibers with Histological Structure Tensor Analysis. Frontiers in Neuroanatomy, 2015, 9, 164.	0.9	34
40	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. PLoS ONE, 2015, 10, e0124126.	1.1	220
41	Fetal Cerebral Magnetic Resonance Imaging Beyond Morphology. Seminars in Ultrasound, CT and MRI, 2015, 36, 465-475.	0.7	24
42	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	5.4	3,589
43	Disrupted developmental organization of the structural connectome in fetuses with corpus callosum agenesis. NeuroImage, 2015, 111, 277-288.	2.1	63
44	Effects of chronic peripheral olfactory loss on functional brain networks. Neuroscience, 2015, 310, 589-599.	1.1	28
45	Voxel-Wise Motion Artifacts in Population-Level Whole-Brain Connectivity Analysis of Resting-State fMRI. PLoS ONE, 2014, 9, e104947.	1.1	21
46	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.	1.1	11
47	The relationship between eye movement and vision develops before birth. Frontiers in Human Neuroscience, 2014, 8, 775.	1.0	17
48	Fetal functional imaging portrays heterogeneous development of emerging human brain networks. Frontiers in Human Neuroscience, 2014, 8, 852.	1.0	109
49	A computational model for bipolar deep brain stimulation of the subthalamic nucleus. , 2014, 2014, 6258-61.		6
50	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.	0.9	75
51	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.	5.7	44
52	Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling. , 2014, , .		4
53	Autistic Traits in Neurotypical Adults: Correlates of Graph Theoretical Functional Network Topology and White Matter Anisotropy Patterns. PLoS ONE, 2013, 8, e60982.	1.1	28
54	Generation of Individualized Thalamus Target Maps by Using Statistical Shape Models and Thalamocortical Tractography. American Journal of Neuroradiology, 2012, 33, 2110-2116.	1.2	69

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55	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, 472-483.	1.1	27
56	Time Course of Endothelium-Dependent and -Independent Coronary Vasomotor Response to Coronary Balloons and Stents. <i>JACC: Cardiovascular Interventions</i> , 2012, 5, 741-751.	1.1	28
57	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.	2.5	37
58	Connectivity-based parcellation reveals interhemispheric differences in the insula. <i>Brain Topography</i> , 2012, 25, 264-271.	0.8	120
59	Glioma grade assessment by using histogram analysis of diffusion tensor imaging-derived maps. <i>Neuroradiology</i> , 2011, 53, 483-491.	1.1	43
60	Blepharophimosis mental retardation syndrome Say-Barber/Biesecker/Young-Simpson type "New findings with neuroimaging. <i>American Journal of Medical Genetics, Part A</i> , 2011, 155, 634-637.	0.7	10