Lana Vasung

List of Publications by Year
in descending order

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52 papers	2,522 citations	236925 25 h-index	206112 48 g-index
54 all docs	54 docs citations	54 times ranked	3210 citing authors

#	Article	IF	Citations
1	Abnormal development of transient fetal zones in mild isolated fetal ventriculomegaly. Cerebral Cortex, 2023, 33, 1130-1139.	2.9	9
2	Syndrome of the trephined: clinical spectrum, risk factors, and impact of cranioplasty on neurologic recovery in a prospective cohort. Neurosurgical Review, 2022, 45, 1431-1443.	2.4	16
3	Regional Brain Growth Trajectories in Fetuses with Congenital Heart Disease. Annals of Neurology, 2021, 89, 143-157.	5.3	49
4	Role of axonal fibers in the cortical folding patterns: A tale of variability and regularity. Brain Multiphysics, 2021, 2, 100029.	2.3	20
5	A Deep Attentive Convolutional Neural Network for Automatic Cortical Plate Segmentation in Fetal MRI. IEEE Transactions on Medical Imaging, 2021, 40, 1123-1133.	8.9	37
6	Association between Quantitative MR Markers of Cortical Evolving Organization and Gene Expression during Human Prenatal Brain Development. Cerebral Cortex, 2021, 31, 3610-3621.	2.9	11
7	A machine learning-based method for estimating the number and orientations of major fascicles in diffusion-weighted magnetic resonance imaging. Medical Image Analysis, 2021, 72, 102129.	11.6	10
8	Learning to estimate the fiber orientation distribution function from diffusion-weighted MRI. NeuroImage, 2021, 239, 118316.	4.2	17
9	Deep learning-based parameter estimation in fetal diffusion-weighted MRI. NeuroImage, 2021, 243, 118482.	4.2	22
10	Optimal Method for Fetal Brain Age Prediction Using Multiplanar Slices From Structural Magnetic Resonance Imaging. Frontiers in Neuroscience, 2021, 15, 714252.	2.8	9
11	Quantitative In vivo MRI Assessment of Structural Asymmetries and Sexual Dimorphism of Transient Fetal Compartments in the Human Brain. Cerebral Cortex, 2020, 30, 1752-1767.	2.9	40
12	Spatiotemporal Differences in the Regional Cortical Plate and Subplate Volume Growth during Fetal Development. Cerebral Cortex, 2020, 30, 4438-4453.	2.9	22
13	Brain morphological analysis in PTEN hamartoma tumor syndrome. American Journal of Medical Genetics, Part A, 2020, 182, 1117-1129.	1.2	12
14	Temporal Patterns of Emergence and Spatial Distribution of Sulcal Pits During Fetal Life. Cerebral Cortex, 2020, 30, 4257-4268.	2.9	13
15	An Atypical Sulcal Pattern in Children with Disorders of the Corpus Callosum and Its Relation to Behavioral Outcomes. Cerebral Cortex, 2020, 30, 4790-4799.	2.9	3
16	Exploring early human brain development with structural and physiological neuroimaging. NeuroImage, 2019, 187, 226-254.	4.2	110
17	White matter mean diffusivity correlates with myelination in tuberous sclerosis complex. Annals of Clinical and Translational Neurology, 2019, 6, 1178-1190.	3.7	24
18	Structural and Diffusion MRI Analyses With Histological Observations in Patients With Lissencephaly. Frontiers in Cell and Developmental Biology, 2019, 7, 124.	3.7	11

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19	Newborns and preterm infants at term equivalent age: A semi-quantitative assessment of cerebral maturity. NeuroImage: Clinical, 2019, 24, 102014.	2.7	17
20	Music in premature infants enhances high-level cognitive brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12103-12108.	7.1	94
21	Ex vivo fetal brain MRI: Recent advances, challenges, and future directions. NeuroImage, 2019, 195, 23-37.	4.2	30
22	Fetal brain growth portrayed by a spatiotemporal diffusion tensor MRI atlas computed from in utero images. NeuroImage, 2019, 185, 593-608.	4.2	81
23	Automatic labeling of cortical sulci for the human fetal brain based on spatio-temporal information of gyrification. NeuroImage, 2019, 188, 473-482.	4.2	17
24	Asymmetric Insular Connectomics Revealed by Diffusion Magnetic Resonance Imaging Analysis of Healthy Brain Development. Brain Connectivity, 2019, 9, 2-12.	1.7	4
25	Music processing in preterm and full-term newborns: A psychophysiological interaction (PPI) approach in neonatal fMRI. NeuroImage, 2019, 185, 857-864.	4.2	53
26	fMRI-based Neuronal Response to New Odorants in the Newborn Brain. Cerebral Cortex, 2018, 28, 2901-2907.	2.9	17
27	Regional volumetric abnormalities in pediatric autism revealed by structural magnetic resonance imaging. International Journal of Developmental Neuroscience, 2018, 71, 34-45.	1.6	24
28	Understanding brain development: a major step. Lancet Neurology, The, 2017, 16, 178-179.	10.2	0
29	Growth of Thalamocortical Fibers to the Somatosensory Cortex in the Human Fetal Brain. Frontiers in Neuroscience, 2017, 11, 233.	2.8	101
30	Spatiotemporal Relationship of Brain Pathways during Human Fetal Development Using High-Angular Resolution Diffusion MR Imaging and Histology. Frontiers in Neuroscience, 2017, 11, 348.	2.8	56
31	Quantitative and Qualitative Analysis of Transient Fetal Compartments during Prenatal Human Brain Development. Frontiers in Neuroanatomy, 2016, 10, 11.	1.7	97
32	Altered Amygdala Development and Fear Processing in Prematurely Born Infants. Frontiers in Neuroanatomy, 2016, 10, 55.	1.7	47
33	Brain network characterization of high-risk preterm-born school-age children. NeuroImage: Clinical, 2016, 11, 195-209.	2.7	55
34	Radiological signs of the syndrome of the trephined. Neuroradiology, 2016, 58, 557-568.	2.2	30
35	Improved statistical evaluation of group differences in connectomes by screeningâ€“filtering strategy with application to study maturation of brain connections between childhood and adolescence. NeuroImage, 2015, 108, 251-264.	4.2	27
36	Structural Brain Connectivity in School-Age Preterm Infants Provides Evidence for Impaired Networks Relevant for Higher Order Cognitive Skills and Social Cognition. Cerebral Cortex, 2015, 25, 2793-2805.	2.9	169

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37	Process of cortical network formation and impact of early brain damage. Current Opinion in Neurology, 2014, 27, 133-141.	3.6	19
38	MRI of animal models of developmental disorders and translation to human imaging. Current Opinion in Neurology, 2014, 27, 157-167.	3.6	9
39	Perinatal and early postnatal reorganization of the subplate and related cellular compartments in the human cerebral wall as revealed by histological and MRI approaches. Brain Structure and Function, 2014, 219, 231-253.	2.3	147
40	Gaining insight of fetal brain development with diffusion MRI and histology. International Journal of Developmental Neuroscience, 2014, 32, 11-22.	1.6	75
41	The Role of Neuroimaging in Predicting Neurodevelopmental Outcomes of Preterm Neonates. Clinics in Perinatology, 2014, 41, 257-283.	2.1	102
42	Assessing white matter microstructure of the newborn with multi-shell diffusion MRI and biophysical compartment models. NeuroImage, 2014, 96, 288-299.	4.2	161
43	Multimodality evaluation of the pediatric brain: DTI and its competitors. Pediatric Radiology, 2013, 43, 60-68.	2.0	23
44	Region-specific reduction in brain volume in young adults with perinatal hypoxic-ischaemic encephalopathy. European Journal of Paediatric Neurology, 2013, 17, 608-614.	1.6	17
45	Coupling Diffusion Imaging with Histological and Gene Expression Analysis to Examine the Dynamics of Cortical Areas across the Fetal Period of Human Brain Development. Cerebral Cortex, 2013, 23, 2620-2631.	2.9	65
46	Species-Dependent Posttranscriptional Regulation of NOS1 by FMRP in the Developing Cerebral Cortex. Cell, 2012, 149, 899-911.	28.9	115
47	fMRI neural activation patterns induced by professional military training. Translational Neuroscience, 2012, 3, 46-50.	1.4	4
48	The Zagreb Collection of human brains: a unique, versatile, but underexploited resource for the neuroscience community. Annals of the New York Academy of Sciences, 2011, 1225, E105-30.	3.8	42
49	Prominent periventricular fiber system related to ganglionic eminence and striatum in the human fetal cerebrum. Brain Structure and Function, 2011, 215, 237-253.	2.3	52
50	Development of axonal pathways in the human fetal frontoâ€limbic brain: histochemical characterization and diffusion tensor imaging. Journal of Anatomy, 2010, 217, 400-417.	1.5	144
51	Neuroimaging of cortical development and brain connectivity in human newborns and animal models. Journal of Anatomy, 2010, 217, 418-428.	1.5	60
52	Insights From In Vitro Fetal Magnetic Resonance Imaging of Cerebral Development. Seminars in Perinatology, 2009, 33, 220-233.	2.5	133