

Jana Maria Hutter

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,266
citations

218677

26
h-index

223800

46
g-index

105
all docs

105
docs citations

105
times ranked

2848
citing authors

#	ARTICLE	IF	CITATIONS
1	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. <i>NeuroImage</i> , 2018, 173, 88-112.	4.2	315
2	A dedicated neonatal brain imaging system. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 794-804.	3.0	233
3	Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , 2018, 167, 453-465.	4.2	219
4	Complex diffusion-weighted image estimation via matrix recovery under general noise models. <i>NeuroImage</i> , 2019, 200, 391-404.	4.2	184
5	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. <i>NeuroImage</i> , 2019, 185, 750-763.	4.2	127
6	Three-dimensional motion corrected sensitivity encoding reconstruction for multi-shot multi-slice MRI: Application to neonatal brain imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1365-1376.	3.0	108
7	Self-gated MRI motion modeling for respiratory motion compensation in integrated PET/MRI. <i>Medical Image Analysis</i> , 2015, 19, 110-120.	11.6	103
8	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. <i>NeuroImage</i> , 2018, 179, 11-29.	4.2	83
9	Integrated and efficient diffusion-relaxometry using ZEBRA. <i>Scientific Reports</i> , 2018, 8, 15138.	3.3	82
10	Combined diffusion-relaxometry MRI to identify dysfunction in the human placenta. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 95-106.	3.0	74
11	Time-efficient and flexible design of optimized multishell HARDI diffusion. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1276-1292.	3.0	72
12	Sensitivity Encoding for Aligned Multishot Magnetic Resonance Reconstruction. <i>IEEE Transactions on Computational Imaging</i> , 2016, 2, 266-280.	4.4	65
13	Impaired development of the cerebral cortex in infants with congenital heart disease is correlated to reduced cerebral oxygen delivery. <i>Scientific Reports</i> , 2017, 7, 15088.	3.3	60
14	Multimodal functional MRI to explore placental function over gestation. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1191-1204.	3.0	60
15	Development of human white matter pathways in utero over the second and third trimester. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	55
16	Heterogeneity in Brain Microstructural Development Following Preterm Birth. <i>Cerebral Cortex</i> , 2020, 30, 4800-4810.	2.9	54
17	Placenta microstructure and microcirculation imaging with diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 756-766.	3.0	53
18	T2* Placental Magnetic Resonance Imaging in Preterm Preeclampsia. <i>Hypertension</i> , 2020, 75, 1523-1531.	2.7	52

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19	A framework for multi-component analysis of diffusion MRI data over the neonatal period. <i>NeuroImage</i> , 2019, 186, 321-337.	4.2	47
20	Combined diffusion-relaxometry microstructure imaging: Current status and future prospects. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2987-3011.	3.0	46
21	Modelling brain development to detect white matter injury in term and preterm born neonates. <i>Brain</i> , 2020, 143, 467-479.	7.6	44
22	Scattered slice SHARD reconstruction for motion correction in multi-shell diffusion MRI. <i>NeuroImage</i> , 2021, 225, 117437.	4.2	44
23	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. <i>Cerebral Cortex</i> , 2020, 30, 5767-5779.	2.9	42
24	The Developing Human Connectome Project Neonatal Data Release. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	42
25	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. <i>NeuroImage</i> , 2021, 243, 118488.	4.2	40
26	Reduction of respiratory motion artifacts for free-breathing whole-heart coronary MRA by weighted iterative reconstruction. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1885-1895.	3.0	39
27	Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. <i>PLoS Biology</i> , 2020, 18, e3000976.	5.6	38
28	Quiet echo planar imaging for functional and diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1447-1459.	3.0	35
29	Self-gated Radial MRI for Respiratory Motion Compensation on Hybrid PET/MR Systems. <i>Lecture Notes in Computer Science</i> , 2013, 16, 17-24.	1.3	33
30	A deformable model for the reconstruction of the neonatal cortex. , 2017, , .		29
31	High-resolution 3D whole-heart coronary MRA: a study on the combination of data acquisition in multiple breath-holds and 1D residual respiratory motion compensation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 435-443.	2.0	28
32	Systematic evaluation of velocity-selective arterial spin labeling settings for placental perfusion measurement. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1828-1843.	3.0	23
33	Slice-level diffusion encoding for motion and distortion correction. <i>Medical Image Analysis</i> , 2018, 48, 214-229.	11.6	22
34	Data-Driven multi-Contrast spectral microstructure imaging with InSpect: INtegrated SPECTral component estimation and mapping. <i>Medical Image Analysis</i> , 2021, 71, 102045.	11.6	22
35	Placenta Maps: In Utero Placental Health Assessment of the Human Fetus. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2017, 23, 1612-1623.	4.4	21
36	Higher Order Spherical Harmonics Reconstruction of Fetal Diffusion MRI With Intensity Correction. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1104-1113.	8.9	20

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37	Perfusion and apparent oxygenation in the human placenta (PERFOX). <i>Magnetic Resonance in Medicine</i> , 2020, 83, 549-560.	3.0	20
38	Learning Compact q -Space Representations for Multi-Shell Diffusion-Weighted MRI. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 834-843.	8.9	19
39	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. <i>Cerebral Cortex</i> , 2021, 31, 3665-3677.	2.9	19
40	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4348.	2.8	18
41	Highly undersampled peripheral Time-of-Flight magnetic resonance angiography: optimized data acquisition and iterative image reconstruction. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 437-446.	2.0	17
42	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. <i>Scientific Reports</i> , 2020, 10, 14909.	3.3	17
43	Brain volumetry in fetuses that deliver very preterm: An MRI pilot study. <i>NeuroImage: Clinical</i> , 2021, 30, 102650.	2.7	17
44	Multi-Dimensional Flow-Preserving Compressed Sensing (MuFloCoS) for Time-Resolved Velocity-Encoded Phase Contrast MRI. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 400-414.	8.9	16
45	Foetal lung volumes in pregnant women who deliver very preterm: a pilot study. <i>Pediatric Research</i> , 2020, 87, 1066-1071.	2.3	16
46	Antenatal thymus volumes in fetuses that delivered ≥ 32 weeks' gestation: An MRI pilot study. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2021, 100, 1040-1050.	2.8	16
47	T2* placental MRI in pregnancies complicated with fetal congenital heart disease. <i>Placenta</i> , 2021, 108, 23-31.	1.5	16
48	Optimizing maternal fat suppression with constrained image-based shimming in fetal MR. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 477-485.	3.0	14
49	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. <i>NeuroImage: Clinical</i> , 2020, 28, 102423.	2.7	14
50	The effect of maternal position on venous return for pregnant women during MRI. <i>NMR in Biomedicine</i> , 2021, 34, e4475.	2.8	14
51	Placental magnetic resonance imaging in chronic hypertension: A case-control study. <i>Placenta</i> , 2021, 104, 138-145.	1.5	13
52	APPLAUSE: Automatic Prediction of PLacental health via U-net Segmentation and statistical Evaluation. <i>Medical Image Analysis</i> , 2021, 72, 102145.	11.6	13
53	Parental age effects on neonatal white matter development. <i>NeuroImage: Clinical</i> , 2020, 27, 102283.	2.7	12
54	In Utero Diffusion MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 255-264.	1.2	11

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55	Neonatal multi-modal cortical profiles predict 18-month developmental outcomes. <i>Developmental Cognitive Neuroscience</i> , 2022, 54, 101103.	4.0	11
56	Predicting age and clinical risk from the neonatal connectome. <i>NeuroImage</i> , 2022, 257, 119319.	4.2	11
57	T2* relaxometry to characterize normal placental development over gestation in-vivo at 3T. <i>Wellcome Open Research</i> , 0, 4, 166.	1.8	10
58	On the need for bundle-specific microstructure kernels in diffusion MRI. <i>NeuroImage</i> , 2020, 208, 116460.	4.2	9
59	Free-Breathing Whole-Heart Coronary MRA: Motion Compensation Integrated into 3D Cartesian Compressed Sensing Reconstruction. <i>Lecture Notes in Computer Science</i> , 2013, 16, 575-582.	1.3	8
60	Multi-Channel 4D Parametrized Atlas of Macro- and Microstructural Neonatal Brain Development. <i>Frontiers in Neuroscience</i> , 2021, 15, 661704.	2.8	8
61	Acquiring and Predicting Multidimensional Diffusion (MUDI) Data: An Open Challenge. <i>Mathematics and Visualization</i> , 2020, , 195-208.	0.6	8
62	Deformable Slice-to-Volume Registration for Reconstruction of Quantitative T2* Placental and Fetal MRI. <i>Lecture Notes in Computer Science</i> , 2020, , 222-232.	1.3	8
63	Virtual angiography using CFD simulations based on patient-specific parameter optimization. , 2012, , .		7
64	Antenatal diagnosis of chorioamnionitis: A review of the potential role of fetal and placental imaging. <i>Prenatal Diagnosis</i> , 2022, 42, 1049-1058.	2.3	7
65	CRAFT (Cerclage after full dilatation caesarean section): protocol of a mixed methods study investigating the role of previous in-labour caesarean section in preterm birth risk. <i>BMC Pregnancy and Childbirth</i> , 2020, 20, 698.	2.4	6
66	Spatio-Temporal Atlas of Normal Fetal Craniofacial Feature Development and CNN-Based Ocular Biometry for Motion-Corrected Fetal MRI. <i>Lecture Notes in Computer Science</i> , 2021, , 168-178.	1.3	6
67	The use of functional placental magnetic resonance imaging for assessment of the placenta after prolonged preterm rupture of the membranes in vivo: A pilot study. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2021, 100, 2244-2252.	2.8	6
68	Passive time-multiplexing super-resolved technique for axially moving targets. <i>Applied Optics</i> , 2013, 52, C11.	1.8	5
69	A realistic digital phantom for perfusion C-arm CT based on MRI data. , 2013, , .		5
70	An efficient sequence for fetal brain imaging at 3T with enhanced T_1 contrast and motion robustness. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 137-146.	3.0	5
71	InSpect: INtegrated SPECTral Component Estimation and Mapping for Multi-contrast Microstructural MRI. <i>Lecture Notes in Computer Science</i> , 2019, , 755-766.	1.3	5
72	Diffusion Tensor Driven Image Registration: A Deep Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020, , 131-140.	1.3	5

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73	Dynamic Field Mapping and Motion Correction Using Interleaved Double Spin-Echo Diffusion MRI. Lecture Notes in Computer Science, 2017, , 523-531.	1.3	5
74	Visual assessment of the placenta in antenatal magnetic resonance imaging across gestation in normal and compromised pregnancies: Observations from a large cohort study. Placenta, 2022, 117, 29-38.	1.5	5
75	The developing brain structural and functional connectome fingerprint. Developmental Cognitive Neuroscience, 2022, 55, 101117.	4.0	5
76	Inner-volume echo volumar imaging (<sc>IVEVI</sc>) for robust fetal brain imaging. Magnetic Resonance in Medicine, 2018, 80, 279-285.	3.0	4
77	Low-Rank and Sparse Matrix Decomposition for Compressed Sensing Reconstruction of Magnetic Resonance 4D Phase Contrast Blood Flow Imaging (LoSDeCoS 4D-PCI). Lecture Notes in Computer Science, 2013, 16, 558-565.	1.3	4
78	A Framework for Calculating Time-Efficient Diffusion MRI Protocols for Anisotropic IVIM and An Application in the Placenta. Mathematics and Visualization, 2019, , 251-263.	0.6	3
79	Multi-channel Registration for Diffusion MRI: Longitudinal Analysis for the Neonatal Brain. Lecture Notes in Computer Science, 2020, , 111-121.	1.3	3
80	Effects of gestational age at birth on perinatal structural brain development in healthy term-born babies. Human Brain Mapping, 2022, 43, 1577-1589.	3.6	3
81	Multi-dimensional flow-adapted compressed sensing (MDFCS) for time-resolved velocity-encoded Phase Contrast MRA. , 2013, , .		2
82	A dedicated neonatal brain imaging system. Magnetic Resonance in Medicine, 2017, 78, C1-C1.	3.0	2
83	An efficient and combined placental ADC acquisition in pregnancies with and without pre-eclampsia. Magnetic Resonance in Medicine, 2021, 86, 2684-2691.	3.0	2
84	Assessment of the fetal thymus gland: Comparing MRI-acquired thymus volumes with 2D ultrasound measurements. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2021, 264, 1-7.	1.1	2
85	Cardiac and placental imaging (CARP) in pregnancy to assess aetiology of preeclampsia. Placenta, 2022, 122, 46-55.	1.5	2
86	Uncertainty-Aware Deep Learning Based Deformable Registration. Lecture Notes in Computer Science, 2021, , 54-63.	1.3	1
87	Anisotropy in the Human Placenta in Pregnancies Complicated by Fetal Growth Restriction. Mathematics and Visualization, 2021, , 263-276.	0.6	1
88	Data-Driven Multi-contrast Spectral Microstructure Imaging with InSpect. Lecture Notes in Computer Science, 2020, , 375-385.	1.3	1
89	Predicting Preterm Birth Using Multimodal Fetal Imaging. Lecture Notes in Computer Science, 2021, , 284-293.	1.3	0