Borjan A Gagoski

List of Publications by Year
in descending order

57 papers	2,728 citations	279798 23 h-index	197818 49 g-index
61 all docs	61 docs citations	61 times ranked	3719 citing authors

#	Article	IF	Citations
1	Blippedâ€controlled aliasing in parallel imaging for simultaneous multislice echo planar imaging with reduced gâ€factor penalty. Magnetic Resonance in Medicine, 2012, 67, 1210-1224.	3.0	1,144
2	Waveâ€CAIPI for highly accelerated 3D imaging. Magnetic Resonance in Medicine, 2015, 73, 2152-2162.	3.0	180
3	Improved magnetic resonance fingerprinting reconstruction with lowâ€rank and subspace modeling. Magnetic Resonance in Medicine, 2018, 79, 933-942.	3.0	113
4	3D GABA imaging with real-time motion correction, shim update and reacquisition of adiabatic spiral MRSI. NeuroImage, 2014, 103, 290-302.	4.2	100
5	Fetal MRI: A technical update with educational aspirations. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2014, 43, 237-266.	0.5	78
6	RARE/turbo spin echo imaging with simultaneous multislice Wave-CAIPI. Magnetic Resonance in Medicine, 2015, 73, 929-938.	3.0	68
7	In Vivo Quantification of Placental Insufficiency by BOLD MRI: A Human Study. Scientific Reports, 2017, 7, 3713.	3.3	66
8	Real-time motion- and B0-correction for LASER-localized spiral-accelerated 3D-MRSI of the brain at 3T. NeuroImage, 2014, 88, 22-31.	4.2	64
9	Waveâ€CAIPI for highly accelerated MPâ€RAGE imaging. Magnetic Resonance in Medicine, 2018, 79, 401-406.	3.0	53
10	Singleâ€step quantitative susceptibility mapping with variational penalties. NMR in Biomedicine, 2017, 30, e3570.	2.8	50
11	Regional Brain Growth Trajectories in Fetuses with Congenital Heart Disease. Annals of Neurology, 2021, 89, 143-157.	5.3	49
12	Autocalibrated waveâ€<scp>CAIPI</scp> reconstruction; Joint optimization of kâ€space trajectory and parallel imaging reconstruction. Magnetic Resonance in Medicine, 2017, 78, 1093-1099.	3.0	47
13	Early-Emerging Sulcal Patterns Are Atypical in Fetuses with Congenital Heart Disease. Cerebral Cortex, 2019, 29, 3605-3616.	2.9	40
14	Dynamic ³¹Pâ€“MRSI using spiral spectroscopic imaging can map mitochondrial capacity in muscles of the human calf during plantar flexion exercise at 7ÂT. NMR in Biomedicine, 2016, 29, 1825-1834.	2.8	38
15	Simultaneous multislice magnetic resonance fingerprinting (SMSâ€MRF) with directâ€spiral sliceâ€GRAPPA (dsâ€SG) reconstruction. Magnetic Resonance in Medicine, 2017, 77, 1966-1974.	3.0	35
16	Quantitative Folding Pattern Analysis of Early Primary Sulci in Human Fetuses with Brain Abnormalities. American Journal of Neuroradiology, 2017, 38, 1449-1455.	2.4	31
17	Arterial Spin Labeling Perfusion Magnetic Resonance Imaging Performed in Acute Perinatal Stroke Reveals Hyperperfusion Associated With Ischemic Injury. Stroke, 2016, 47, 1514-1519.	2.0	30
18	Disorganized Patterns of Sulcal Position in Fetal Brains with Agenesis of Corpus Callosum. Cerebral Cortex, 2018, 28, 3192-3203.	2.9	30

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19	The relationship between biological and psychosocial risk factors and restingâ€state functional connectivity in 2â€monthâ€old Bangladeshi infants: A feasibility and pilot study. Developmental Science, 2019, 22, e12841.	2.4	30
20	Ex vivo fetal brain MRI: Recent advances, challenges, and future directions. NeuroImage, 2019, 195, 23-37.	4.2	30
21	Detecting microstructural white matter abnormalities of frontal pathways in children with ADHD using advanced diffusion models. Brain Imaging and Behavior, 2020, 14, 981-997.	2.1	29
22	Joint RElaxation-Diffusion Imaging Moments to Probe Neurite Microstructure. IEEE Transactions on Medical Imaging, 2020, 39, 668-677.	8.9	29
23	Placental MRI: Effect of maternal position and uterine contractions on placental BOLD MRI measurements. Placenta, 2020, 95, 69-77.	1.5	27
24	Suprathreshold fiber cluster statistics: Leveraging white matter geometry to enhance tractography statistical analysis. NeuroImage, 2018, 171, 341-354.	4.2	26
25	Spatiotemporal alignment of in utero BOLDâ€MRI series. Journal of Magnetic Resonance Imaging, 2017, 46, 403-412.	3.4	25
26	System-Specific Patterns of Thalamocortical Connectivity in Early Brain Development as Revealed by Structural and Functional MRI. Cerebral Cortex, 2019, 29, 1218-1229.	2.9	24
27	Accelerated ¹H MRSI using randomly undersampled spiralâ€based kâ€space trajectories. Magnetic Resonance in Medicine, 2015, 74, 13-24.	3.0	23
28	Placental MRI. Topics in Magnetic Resonance Imaging, 2019, 28, 285-297.	1.2	23
29	Diffusion Propagator Estimation from Sparse Measurements in a Tractography Framework. Lecture Notes in Computer Science, 2013, 16, 510-517.	1.3	22
30	Comparison of CBF Measured with Combined Velocity-Selective Arterial Spin-Labeling and Pulsed Arterial Spin-Labeling to Blood Flow Patterns Assessed by Conventional Angiography in Pediatric Moyamoya. American Journal of Neuroradiology, 2019, 40, 1842-1849.	2.4	20
31	White matter in infancy is prospectively associated with language outcomes in kindergarten. Developmental Cognitive Neuroscience, 2021, 50, 100973.	4.0	18
32	Longitudinal Changes in Magnetic Resonance Spectroscopy in Pediatric Concussion: A Pilot Study. Frontiers in Neurology, 2019, 10, 556.	2.4	15
33	Maternal Dietary Intake of Omega-3 Fatty Acids Correlates Positively with Regional Brain Volumes in 1-Month-Old Term Infants. Cerebral Cortex, 2020, 30, 2057-2069.	2.9	15
34	Individual variation in simulated fetal SAR assessed in multiple body models. Magnetic Resonance in Medicine, 2020, 83, 1418-1428.	3.0	12
35	Functional Connectivity in Infancy and Toddlerhood Predicts Long-Term Language and Preliteracy Outcomes. Cerebral Cortex, 2022, 32, 725-736.	2.9	12
36	Relating anthropometric indicators to brain structure in 2-month-old Bangladeshi infants growing up in poverty: A pilot study. NeuroImage, 2020, 210, 116540.	4.2	11

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37	Comparison of prospective and retrospective motion correction in 3Dâ€encoded neuroanatomical MRI. Magnetic Resonance in Medicine, 2022, 87, 629-645.	3.0	11
38	Semi-supervised Learning for Fetal Brain MRI Quality Assessment with ROI Consistency. Lecture Notes in Computer Science, 2020, , 386-395.	1.3	11
39	Automated detection and reacquisition of motionâ€degraded images in fetal HASTE imaging at 3 T. Magnetic Resonance in Medicine, 2022, 87, 1914-1922.	3.0	11
40	Parallel transmission pulse design with explicit control for the specific absorption rate in the presence of radiofrequency errors. Magnetic Resonance in Medicine, 2016, 75, 2493-2504.	3.0	9
41	Flexible proton 3<scp>D</scp><scp>MR</scp> spectroscopic imaging of the prostate with lowâ€power adiabatic pulses for volume selection and spiral readout. Magnetic Resonance in Medicine, 2017, 77, 928-935.	3.0	8
42	Preliminary evaluation of dynamic glucose enhanced MRI of the human placenta during glucose tolerance test. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1619-1627.	2.0	8
43	Brain morphometry and diminished physical growth in Bangladeshi children growing up in extreme poverty: A longitudinal study. Developmental Cognitive Neuroscience, 2021, 52, 101029.	4.0	8
44	Rapid headâ€pose detection for automated slice prescription of fetalâ€brain <scp>MRI</scp>. International Journal of Imaging Systems and Technology, 2021, 31, 1136-1154.	4.1	7
45	Quantification of magnetic resonance spectroscopy data using a combined reference: Application in typically developing infants. NMR in Biomedicine, 2021, 34, e4520.	2.8	7
46	Assessing the effects of subject motion on T₂ relaxation under spin tagging (TRUST) cerebral oxygenation measurements using volume navigators. Magnetic Resonance in Medicine, 2017, 78, 2283-2289.	3.0	6
47	Accelerated diffusion and relaxationâ€diffusion MRI using timeâ€division multiplexing EPI. Magnetic Resonance in Medicine, 2021, 86, 2528-2541.	3.0	6
48	Correction of magnetic field inhomogeneity effects for fast quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2019, 81, 1645-1658.	3.0	4
49	Quantitative T1 and T2 mapping by magnetic resonance fingerprinting (MRF) of the placenta before and after maternal hyperoxia. Placenta, 2021, 114, 124-132.	1.5	4
50	Safety and imaging performance of twoâ€channel RF shimming for fetal MRI at 3T. Magnetic Resonance in Medicine, 2021, 86, 2810-2821.	3.0	3
51	Accelerating joint relaxationâ€diffusion MRI by integrating time division multiplexing and simultaneous multiâ€slice (TDMâ€SMS) strategies. Magnetic Resonance in Medicine, 2022, 87, 2697-2709.	3.0	3
52	Assessment of Maternal Macular Pigment Optical Density (MPOD) as a Potential Marker for Dietary Carotenoid Intake during Lactation in Humans. Nutrients, 2022, 14, 182.	4.1	3
53	Edited magnetic resonance spectroscopy in the neonatal brain. Neuroradiology, 2022, 64, 217-232.	2.2	2
54	Improving Dâ€2â€hydroxyglutarate MR spectroscopic imaging in mutant isocitrate dehydrogenase glioma patients with multiplexed RFâ€receive/B₀â€shim array coils at 3â€‰T. NMR in Biomedicine, 2022, 35, e4621.	2.8	2

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55	Increased Breastfeeding Proportion Is Associated with Improved Gross Motor Skills at 3â€“5 Years of Age: A Pilot Study. Nutrients, 2022, 14, 2215.	4.1	2
56	Wave-CAIPI enables highly accelerated 3D MRI. , 2014, , .		1
57	Abstract W MP114: Arterial Spin Label Perfusion Imaging in Acute Neonatal Stroke Reveals Hyperperfusion in Association With Cerebral Ischemic Injury. Stroke, 2014, 45, .	2.0	0