Mustafa Okan Irfanoglu

List of Publications by Year
in descending order

21 papers	1,931 citations	687220 13 h-index	752573 20 g-index
23 all docs	23 docs citations	23 times ranked	2932 citing authors

#	Article	IF	Citations
1	Anatomical accuracy of brain connections derived from diffusion MRI tractography is inherently limited. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16574-16579.	3.3	657
2	Mean apparent propagator (MAP) MRI: A novel diffusion imaging method for mapping tissue microstructure. NeuroImage, 2013, 78, 16-32.	2.1	320
3	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	2.1	200
4	Effects of image distortions originating from susceptibility variations and concomitant fields on diffusion MRI tractography results. NeuroImage, 2012, 61, 275-288.	2.1	195
5	DR-BUDDI (Diffeomorphic Registration for Blip-Up blip-Down Diffusion Imaging) method for correcting echo planar imaging distortions. NeuroImage, 2015, 106, 284-299.	2.1	144
6	Clinical feasibility of using mean apparent propagator (MAP) MRI to characterize brain tissue microstructure. NeuroImage, 2016, 127, 422-434.	2.1	101
7	Analysis of the effects of noise, DWI sampling, and value of assumed parameters in diffusion MRI models. Magnetic Resonance in Medicine, 2017, 78, 1767-1780.	1.9	63
8	DR-TAMAS: Diffeomorphic Registration for Tensor Accurate Alignment of Anatomical Structures. NeuroImage, 2016, 132, 439-454.	2.1	55
9	Whatâ€™s new and whatâ€™s next in diffusion MRI preprocessing. NeuroImage, 2022, 249, 118830.	2.1	43
10	The diffusion tensor imaging (DTI) component of the NIH MRI study of normal brain development (PedsDTI). NeuroImage, 2016, 124, 1125-1130.	2.1	32
11	Evaluating corrections for Eddyâ€currents and other EPI distortions in diffusion MRI: methodology and a dataset for benchmarking. Magnetic Resonance in Medicine, 2019, 81, 2774-2787.	1.9	31
12	Analysis of the contribution of experimental bias, experimental noise, and inter-subject biological variability on the assessment of developmental trajectories in diffusion MRI studies of the brain. NeuroImage, 2015, 109, 480-492.	2.1	16
13	Hypoplasia of cerebellar afferent networks in Down syndrome revealed by DTI-driven tensor based morphometry. Scientific Reports, 2020, 10, 5447.	1.6	13
14	Automatic Deformable Diffusion Tensor Registration for Fiber Population Analysis. Lecture Notes in Computer Science, 2008, 11, 1014-1022.	1.0	13
15	Tensorâ€based morphometry using scalar and directional information of diffusion tensor MRI data (DTBM): Application to hereditary spastic paraplegia. Human Brain Mapping, 2018, 39, 4643-4651.	1.9	12
16	DR-BUDDI: Diffeomorphic Registration for Blip Up-Down Diffusion Imaging. Lecture Notes in Computer Science, 2014, 17, 218-226.	1.0	9
17	Mapping gradient nonlinearity and miscalibration using diffusionâ€weighted MR images of a uniform isotropic phantom. Magnetic Resonance in Medicine, 2021, 86, 3259-3273.	1.9	8
18	Harmonization of methods to facilitate reproducibility in medical data processing: Applications to diffusion tensor magnetic resonance imaging. , 2016, , .		6

#	Article	IF	Citations
19	Improved reproducibility of diffusion MRI of the human brain with a fourâ€way blipâ€up and down phaseâ€encoding acquisition approach. Magnetic Resonance in Medicine, 2021, 85, 2696-2708.	1.9	5
20	Tract Orientation and Angular Dispersion Deviation Indicator (TOADDI): A framework for single-subject analysis in diffusion tensor imaging. NeuroImage, 2016, 126, 151-163.	2.1	3
21	Diffusion Tensor Field Registration in the Presence of Uncertainty. Lecture Notes in Computer Science, 2009, 12, 181-189.	1.0	3