

# L Tugan Muftuler

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

4,345  
citations

186265

28  
h-index

114465

63  
g-index

82  
all docs

82  
docs citations

82  
times ranked

6737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion propagator metrics are biased when simultaneous multi-slice acceleration is used. <i>Magnetic Resonance Imaging</i> , 2022, 86, 46-54.	1.8	3
2	Dynamic tracking of scaphoid, lunate, and capitate carpal bones using four-dimensional MRI. <i>PLoS ONE</i> , 2022, 17, e0269336.	2.5	3
3	Association of Head Impact Exposure with White Matter Macrostructure and Microstructure Metrics. <i>Journal of Neurotrauma</i> , 2021, 38, 474-484.	3.4	6
4	Value CMR: Towards a Comprehensive, Rapid, Cost-Effective Cardiovascular Magnetic Resonance Imaging. <i>International Journal of Biomedical Imaging</i> , 2021, 2021, 1-12.	3.9	6
5	Split-slice training and hyperparameter tuning of RAKI networks for simultaneous multi-slice reconstruction. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3272-3280.	3.0	6
6	Oswestry Disability Index scores correlate with MRI measurements in degenerating intervertebral discs and endplates. <i>European Journal of Pain</i> , 2020, 24, 346-353.	2.8	11
7	Optimization of hyperparameters for SMS reconstruction. <i>Magnetic Resonance Imaging</i> , 2020, 73, 91-103.	1.8	3
8	Serial Diffusion Kurtosis Magnetic Resonance Imaging Study during Acute, Subacute, and Recovery Periods after Sport-Related Concussion. <i>Journal of Neurotrauma</i> , 2020, 37, 2081-2092.	3.4	12
9	Cardiac functional magnetic resonance imaging at 7T: Image quality optimization and ultra-high field capabilities. <i>World Journal of Radiology</i> , 2020, 12, 231-246.	1.1	8
10	Cardiac functional magnetic resonance imaging at 7T: Image quality optimization and ultra-high field capabilities. <i>World Journal of Radiology</i> , 2020, 12, 229-246.	1.1	0
11	Analysis of errors in diffusion kurtosis imaging caused by slice crosstalk in simultaneous multi-slice imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4162.	2.8	3
12	Optimization of q-space sampling for mean apparent propagator MRI metrics using a genetic algorithm. <i>NeuroImage</i> , 2019, 199, 237-244.	4.2	10
13	A high-resolution fMRI investigation of BNST and centromedial amygdala activity as a function of affective stimulus predictability, anticipation, and duration. <i>Social Cognitive and Affective Neuroscience</i> , 2019, 14, 1167-1177.	3.0	12
14	Assessing diffusion kurtosis tensor estimation methods using a digital brain phantom derived from human connectome project data. <i>Magnetic Resonance Imaging</i> , 2018, 48, 122-128.	1.8	1
15	Stability of MRI metrics in the advanced research core of the NCAA-DoD concussion assessment, research and education (CARE) consortium. <i>Brain Imaging and Behavior</i> , 2018, 12, 1121-1140.	2.1	22
16	Filter-free probe diffusion imaging improves spinal cord injury outcome prediction. <i>Annals of Neurology</i> , 2018, 84, 37-50.	5.3	20
17	Chronic differences in white matter integrity following sport-related concussion as measured by diffusion MRI: 6-month follow-up. <i>Human Brain Mapping</i> , 2018, 39, 4276-4289.	3.6	41
18	Conservatism and the neural circuitry of threat: economic conservatism predicts greater amygdala-BNST connectivity during periods of threat vs safety. <i>Social Cognitive and Affective Neuroscience</i> , 2018, 13, 43-51.	3.0	23

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19	Quantitative Susceptibility Mapping after Sports-Related Concussion. American Journal of Neuroradiology, 2018, 39, 1215-1221.	2.4	17
20	Rapid in vivo detection of rat spinal cord injury with double-diffusion-encoded magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2017, 77, 1639-1649.	3.0	43
21	Changes in perfusion and diffusion in the endplate regions of degenerating intervertebral discs: a DCE-MRI study. European Spine Journal, 2017, 26, 1416-1416.	2.2	14
22	Disentangling the effects of novelty, valence and trait anxiety in the bed nucleus of the stria terminalis, amygdala and hippocampus with high resolution 7T fMRI. NeuroImage, 2017, 156, 293-301.	4.2	18
23	Optimizing Filter-Probe Diffusion Weighting in the Rat Spinal Cord for Human Translation. Frontiers in Neuroscience, 2017, 11, 706.	2.8	11
24	The brain anatomy of attention-deficit/hyperactivity disorder in young adults â€” a magnetic resonance imaging study. PLoS ONE, 2017, 12, e0175433.	2.5	68
25	Acute white matter changes following sport-related concussion: A serial diffusion tensor and diffusion kurtosis tensor imaging study. Human Brain Mapping, 2016, 37, 3821-3834.	3.6	100
26	Undersampled linogram trajectory for fast imaging (ULTI): experiments at 3â€‰T and 7â€‰T. NMR in Biomedicine, 2016, 29, 340-348.	2.8	2
27	Wavelet Domain Radiofrequency Pulse Design Applied to Magnetic Resonance Imaging. PLoS ONE, 2015, 10, e0141151.	2.5	4
28	Intervertebral disc height loss demonstrates the threshold of major pathological changes during degeneration. European Spine Journal, 2015, 24, 1944-1950.	2.2	54
29	In vivo quantification of lumbar disc degeneration: assessment of ADC value using a degenerative scoring system based on Pfirrmann framework. European Spine Journal, 2015, 24, 2442-2448.	2.2	24
30	Association between intervertebral disc degeneration and endplate perfusion studied by DCE-MRI. European Spine Journal, 2015, 24, 679-685.	2.2	26
31	Changes in perfusion and diffusion in the endplate regions of degenerating intervertebral discs: a DCE-MRI study. European Spine Journal, 2015, 24, 2458-2467.	2.2	22
32	Increased brain activity to unpleasant stimuli in individuals with the 7R allele of the DRD4 gene. Psychiatry Research - Neuroimaging, 2015, 231, 58-63.	1.8	18
33	Quantitative analysis of the efficacy of gradient table correction on improving the accuracy of fiber tractography. Magnetic Resonance in Medicine, 2014, 72, 227-236.	3.0	4
34	Effects of the coexistence of late-life depression and mild cognitive impairment on white matter microstructure. Journal of the Neurological Sciences, 2014, 338, 46-56.	0.6	35
35	Shape of the basal ganglia in preadolescent children is associated with cognitive performance. NeuroImage, 2014, 99, 93-102.	4.2	40
36	Developmental changes in hippocampal shape among preadolescent children. International Journal of Developmental Neuroscience, 2013, 31, 473-481.	1.6	23

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37	Highly accelerated projection imaging with coil sensitivity encoding for rapid MRI. <i>Medical Physics</i> , 2013, 40, 022305.	3.0	2
38	MREIT experiments with 200 $\mu$ A injected currents: a feasibility study using two reconstruction algorithms, SMM and harmonicBZ. <i>Physics in Medicine and Biology</i> , 2012, 57, 4245-4261.	3.0	3
39	Functionally distinct regions for spatial processing and sensory motor integration in the planum temporale. <i>Human Brain Mapping</i> , 2012, 33, 2453-2463.	3.6	35
40	Development of white matter pathways in typically developing preadolescent children. <i>Brain Research</i> , 2012, 1466, 33-43.	2.2	30
41	Distinct pattern separation related transfer functions in human CA3/dentate and CA1 revealed using high-resolution fMRI and variable mnemonic similarity. <i>Learning and Memory</i> , 2011, 18, 15-18.	1.3	294
42	Children's Brain Development Benefits from Longer Gestation. <i>Frontiers in Psychology</i> , 2011, 2, 1.	2.1	937
43	Assessment of the Correlation between Apparent Diffusion Coefficient and Intervertebral Disk Degeneration Using 3 Tesla MRI. <i>Neuroradiology Journal</i> , 2011, 24, 593-602.	1.2	2
44	71: Magnetic resonance imaging (MRI) shows long term changes in brain structure in preterm infants exposed to chorioamnionitis. <i>American Journal of Obstetrics and Gynecology</i> , 2011, 204, S41.	1.3	3
45	Magnetic resonance imaging demonstrates long-term changes in brain structure in children born preterm and exposed to chorioamnionitis. <i>American Journal of Obstetrics and Gynecology</i> , 2011, 205, 384.e1-384.e8.	1.3	36
46	Cortical and subcortical changes in typically developing preadolescent children. <i>Brain Research</i> , 2011, 1399, 15-24.	2.2	51
47	The Effects of Age, Memory Performance, and Callosal Integrity on the Neural Correlates of Successful Associative Encoding. <i>Cerebral Cortex</i> , 2011, 21, 2166-2176.	2.9	128
48	High pregnancy anxiety during mid-gestation is associated with decreased gray matter density in 6-9-year-old children. <i>Psychoneuroendocrinology</i> , 2010, 35, 141-153.	2.7	370
49	Ultrahigh-resolution microstructural diffusion tensor imaging reveals perforant path degradation in aged humans in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12687-12691.	7.1	212
50	A PIN diode controlled dual-tuned MRI RF coil and phased array for multi nuclear imaging. <i>Physics in Medicine and Biology</i> , 2010, 55, 2589-2600.	3.0	41
51	Development of a new RF coil and $^{13}$ C-ray radiation shielding assembly for improved MR image quality in SPECT/MRI. <i>Physics in Medicine and Biology</i> , 2010, 55, 2495-2504.	3.0	12
52	Development of an MR-compatible SPECT system (MRSPECT) for simultaneous data acquisition. <i>Physics in Medicine and Biology</i> , 2010, 55, 1563-1575.	3.0	73
53	Fourier transform magnetic resonance current density imaging (FT-MRCDI) from one component of magnetic flux density. <i>Physics in Medicine and Biology</i> , 2010, 55, 3177-3199.	3.0	7
54	Phonological repetition-suppression in bilateral superior temporal sulci. <i>NeuroImage</i> , 2010, 49, 1018-1023.	4.2	55

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55	Impact of scanner hardware and imaging protocol on image quality and compartment volume precision in the ADNI cohort. <i>NeuroImage</i> , 2010, 49, 2123-2133.	4.2	137
56	MREIT with SENSE acceleration using a dedicated RF coil design. <i>Physiological Measurement</i> , 2009, 30, 913-929.	2.1	9
57	Estimating the influence of attention on population codes in human visual cortex using voxel-based tuning functions. <i>NeuroImage</i> , 2009, 44, 223-231.	4.2	115
58	WE-C-210A-02: Quantitative MRI of the Brain: Investigation of Cerebral Gray and White Matter Diseases. <i>Medical Physics</i> , 2009, 36, 2767-2768.	3.0	0
59	Multiple repetitions reveal functionally and anatomically distinct patterns of hippocampal activity during continuous recognition memory. <i>Hippocampus</i> , 2008, 18, 975-980.	1.9	65
60	Fast imaging for magnetic resonance electrical impedance tomography. <i>Magnetic Resonance Imaging</i> , 2008, 26, 739-745.	1.8	25
61	A nuclear radiation detector system with integrated readout for SPECT/MR small animal imaging. , 2007, , .		9
62	An optimization method for designing SENSE imaging RF coil arrays. <i>Journal of Magnetic Resonance</i> , 2007, 186, 273-281.	2.1	7
63	In vivo MRI volumetric measurement of prostate regression and growth in mice. <i>BMC Urology</i> , 2007, 7, 12.	1.4	21
64	Development of MRI-Compatible Nuclear Medicine Imaging Detectors. , 2006, , .		12
65	An inverse method to design RF coil arrays optimized for SENSE imaging. <i>Physics in Medicine and Biology</i> , 2006, 51, 6457-6469.	3.0	8
66	Contrast and spatial resolution in MREIT using low amplitude current. <i>Physics in Medicine and Biology</i> , 2006, 51, 5035-5049.	3.0	37
67	Measurement of ion diffusion using magnetic resonance electrical impedance tomography. <i>Physics in Medicine and Biology</i> , 2006, 51, 2753-2762.	3.0	50
68	In vivo MRI electrical impedance tomography (MREIT) of tumors. <i>Technology in Cancer Research and Treatment</i> , 2006, 5, 381-7.	1.9	30
69	Resolution and Contrast in Magnetic Resonance Electrical Impedance Tomography (MREIT) and its Application to Cancer Imaging. <i>Technology in Cancer Research and Treatment</i> , 2004, 3, 599-609.	1.9	59
70	A simple simultaneous geometric and intensity correction method for echo-planar imaging by EPI-based phase modulation. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 200-205.	8.9	23
71	Auditoryâ€™Motor Interaction Revealed by fMRI: Speech, Music, and Working Memory in Area Spt. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 673-682.	2.3	602
72	Automatic Tuned MRI RF Coil for Multinuclear Imaging of Small Animals at 3T. <i>Journal of Magnetic Resonance</i> , 2002, 155, 39-44.	2.1	21

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73	A Double End-Cap Birdcage RF Coil for Small Animal Whole Body Imaging. Journal of Magnetic Resonance, 2002, 156, 309-312.	2.1	6
74	fMRI study relevant to the Mozart effect: Brain areas involved in spatial-temporal reasoning. Neurological Research, 2001, 23, 683-690.	1.3	63
75	Improvement of temporal resolution in fMRI using slice phase encode reordered 3D EPI. Magnetic Resonance in Medicine, 2000, 44, 485-490.	3.0	8
76	Measurement of AC magnetic field distribution using magnetic resonance imaging. IEEE Transactions on Medical Imaging, 1997, 16, 617-622.	8.9	32