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## Q-ball imaging

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565	7.0 Tesla MRI tractography in patients with trigeminal neuralgia. <b>2018</b> , 54, 265-270		15
564	Advances in microstructural diffusion neuroimaging for psychiatric disorders. <b>2018</b> , 182, 259-282		50
563	Optimal Paths for Variants of the 2D and 3D Reeds-Shepp Car with Applications in Image Analysis. <b>2018</b> , 60, 816-848		20

562	Tensor Eigenvalues and Their Applications. <b>2018,</b>		62
561	Effect of different spatial normalization approaches on tractography and structural brain networks. <b>2018, 2, 362-380</b>		9
560	Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion MRI. <b>2018, 49, 145-158</b>		5
559	Rotationally-invariant mapping of scalar and orientational metrics of neuronal microstructure with diffusion MRI. <b>2018, 174, 518-538</b>		117
558	Quantification of anisotropy and orientation in 3D electron microscopy and diffusion tensor imaging in injured rat brain. <b>2018, 172, 404-414</b>		29
557	Low Rank plus Sparse decomposition of ODFs for improved detection of group-level differences and variable correlations in white matter. <b>2018, 174, 138-152</b>		7
556	Rotating single-shot acquisition (RoSA) with composite reconstruction for fast high-resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , <b>2018, 79, 264-275</b>	4-4	4
555	Accelerated radial diffusion spectrum imaging using a multi-echo stimulated echo diffusion sequence. <i>Magnetic Resonance in Medicine</i> , <b>2018, 79, 306-316</b>	4-4	6
554	Diffusion MRI and the detection of alterations following traumatic brain injury. <b>2018, 96, 612-625</b>		46
553	Cardiac Diffusion MRI. <b>2018, 55-109</b>		0
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551	Acute White-Matter Abnormalities in Sports-Related Concussion: A Diffusion Tensor Imaging Study from the NCAA-DoD CARE Consortium. <i>Journal of Neurotrauma</i> , <b>2018, 35, 2653-2664</b>	5-4	38
550	Director Field Analysis (DFA): Exploring Local White Matter Geometric Structure in Diffusion MRI. <i>Medical Image Analysis</i> , <b>2018, 43, 112-128</b>	15-4	5
549	Single- and Multiple-Shell Uniform Sampling Schemes for Diffusion MRI Using Spherical Codes. <b>2018, 37, 185-199</b>		4
548	Cluster Confidence Index: A Streamline-Wise Pathway Reproducibility Metric for Diffusion-Weighted MRI Tractography. <b>2018, 28, 64-69</b>		14
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546	Microstructure-informed slow diffusion tractography in humans enhances visualisation of fibre pathways. <b>2018, 45, 7-17</b>		4
545	White matter pathways in persistent developmental stuttering: Lessons from tractography. <b>2018, 55, 68-83</b>		6

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543	Individualized prediction of schizophrenia based on the whole-brain pattern of altered white matter tract integrity. <i>Human Brain Mapping</i> , <b>2018</b> , 39, 575-587	5.9	8
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541	Diffusion MRI of white matter microstructure development in childhood and adolescence: Methods, challenges and progress. <b>2018</b> , 33, 161-175		71
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538	Annual Research Review: Not just a small adult brain: understanding later neurodevelopment through imaging the neonatal brain. <b>2018</b> , 59, 350-371		43
537	The absence of restricted water pool in brain white matter. <b>2018</b> , 182, 398-406		46
536	White Matter Tissue Quantification at Low $\lambda$ -Values Within Constrained Spherical Deconvolution Framework. <b>2018</b> , 9, 716		18
535	Diffusion spectrum imaging in white matter microstructure in subjects with type 2 diabetes. <b>2018</b> , 13, e0203271		2
534	White Matter Fiber Tractography Using Nonuniform Rational B-Splines Curve Fitting. <b>2018</b> , 2018, 8643871		2
533	An analytical fiber ODF reconstruction in 3D polarized light imaging. <b>2018</b> ,		0
532	Automatic Verification of the Gradient Table in Diffusion-Weighted MRI Based on Fiber Continuity. <b>2018</b> , 8, 16541		
531	Fast kq-Space Sampling with Motion-Induced Phase in Diffusion MRI. <b>2018</b> ,		
530	Altered frontal aslant tracts as a heritable neural basis of social communication deficits in autism spectrum disorder: A sibling study using tract-based automatic analysis. <b>2019</b> , 12, 225-238		6
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528	On Quantifying Local Geometric Structures of Fiber Tracts. <b>2018</b> , 392-400		1
527	Angular Upsampling in Infant Diffusion MRI Using Neighborhood Matching in $k$ -Space. <b>2018</b> , 12, 57		4

526	Compressed Sensing Diffusion Spectrum Imaging for Accelerated Diffusion Microstructure MRI in Long-Term Population Imaging. <b>2018</b> , 12, 650		14
525	Magnetic resonance angiography contrast enhancement and combined 3D visualization of cerebral vasculature and white matter pathways. <b>2018</b> , 70, 29-42		1
524	N-acetylcysteine add-on treatment leads to an improvement of fornix white matter integrity in early psychosis: a double-blind randomized placebo-controlled trial. <b>2018</b> , 8, 220		31
523	Compositional measures of diffusion anisotropy and asymmetry. <b>2018</b> ,		0
522	Angular resolution enhancement technique for diffusion-weighted imaging (DWI) using predicted diffusion gradient directions. <b>2018</b> , 183, 836-846		1
521	Advances in MRI Methodology. <b>2018</b> , 141, 31-76		51
520	Scalar diffusion-MRI measures invariant to acquisition parameters: A first step towards imaging biomarkers. <b>2018</b> , 54, 194-213		7
519	TOWARDS OPTIMAL LINEAR ESTIMATION OF ORIENTATION DISTRIBUTION FUNCTIONS WITH ARBITRARILY SAMPLED DIFFUSION MRI DATA. <b>2018</b> , 2018, 743-746		0
518	Efficient Pulse Sequences for NMR Microscopy. <b>2018</b> , 199-235		1
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516	Diffusion Tensor Imaging Evaluation of Neural Network Development in Patients Undergoing Therapeutic Repetitive Transcranial Magnetic Stimulation following Stroke. <b>2018</b> , 2018, 3901016		6
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514	Models of Network Spread and Network Degeneration in Brain Disorders. <b>2018</b> , 3, 788-797		21
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509	Fast and accurate Slicewise OutLier Detection (SOLID) with informed model estimation for diffusion MRI data. <b>2018</b> , 181, 331-346		19

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506	Measure-Valued Variational Models with Applications to Diffusion-Weighted Imaging. <b>2018</b> , 60, 1482-1502		5
505	Modelling white matter with spherical deconvolution: How and why?. <b>2019</b> , 32, e3945		65
504	Stimulated echo based mapping (STEM) of T <sub>1</sub> , T <sub>2</sub> , and apparent diffusion coefficient: validation and protocol optimization. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 167-181	4-4	8
503	Generalized Mean Apparent Propagator MRI to Measure and Image Advective and Dispersive Flows in Medicine and Biology. <b>2019</b> , 38, 11-20		2
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500	MIND food and speed of processing training in older adults with low education, the MINDSpeed Alzheimer's disease prevention pilot trial. <b>2019</b> , 84, 105814		2
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494	Optimization of data acquisition and analysis for fiber ball imaging. <b>2019</b> , 200, 690-703		13
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492	Analytical Fiber ODF Reconstruction in 3D Polarized Light Imaging: Performance Assessment. <b>2019</b> ,		0
491	HARDI Segmentation via Fourth-Order Tensors and Anisotropy Preserving Similarity Measures. <b>2019</b> , 61, 1221-1234		0



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489	The Seven Deadly Sins of Measuring Brain Structural Connectivity Using Diffusion MRI Streamlines Fibre-Tracking. <b>2019</b> , 9,	25
488	An Open-Source Tool for Anisotropic Radiation Therapy Planning in Neuro-oncology Using DW-MRI Tractography. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 810	5.3 2
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486	Noise reduction in diffusion MRI using non-local self-similar information in joint x-q space. <i>Medical Image Analysis</i> , <b>2019</b> , 53, 79-94	15.4 14
485	Computer modelling of connectivity change suggests epileptogenesis mechanisms in idiopathic generalised epilepsy. <b>2019</b> , 21, 101655	12
484	Generalized diffusion spectrum magnetic resonance imaging (GDSI) for model-free reconstruction of the ensemble average propagator. <b>2019</b> , 189, 497-515	6
483	Intra-axonal diffusivity in brain white matter. <b>2019</b> , 189, 543-550	48
482	Cerebro-Cerebellar Pathways for Verbal Working Memory. <b>2018</b> , 12, 530	2
481	Relating individual differences in white matter pathways to children's arithmetic fluency: a spherical deconvolution study. <b>2019</b> , 224, 337-350	3
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479	Development, integration and use of an ultra-high-strength gradient system on a human-size 3 T magnet for small animal MRI. <b>2019</b> , 14, e0217916	0
478	Differences between generalized Q-sampling imaging and diffusion tensor imaging in visualization of crossing neural fibers in the brain. <b>2019</b> , 41, 1019-1028	13
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475	Spatial Characterisation of Fibre Response Functions for Spherical Deconvolution in Multiple Sclerosis. <b>2019</b> , 265-279	
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472	Fingerprinting Orientation Distribution Functions in diffusion MRI detects smaller crossing angles. <b>2019</b> , 198, 231-241	5
471	Fast learning of fiber orientation distribution function for MR tractography using convolutional neural network. <b>2019</b> , 46, 3101-3116	32
470	A deep learning approach to estimation of subject-level bias and variance in high angular resolution diffusion imaging. <b>2019</b> , 59, 130-136	1
469	Computational Diffusion MRI. <b>2019</b> ,	1
468	Reproducibility of Neurite Orientation Dispersion and Density Imaging (NODDI) in rats at 9.4 Tesla. <b>2019</b> , 14, e0215974	13
467	White matter microstructural properties in bipolar disorder in relationship to the spatial distribution of lithium in the brain. <b>2019</b> , 253, 224-231	9
466	White matter microstructure disruptions mediate the adverse relationships between hypertension and multiple cognitive functions in cognitively intact older adults. <b>2019</b> , 197, 109-119	4
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462	Predicting Motor Outcomes in Stroke Patients Using Diffusion Spectrum MRI Microstructural Measures. <b>2019</b> , 10, 72	17
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460	Preoperative Imaging (MRI, Functional MRI, CT). <b>2019</b> , 207-222	
459	A Missing Connection: A Review of the Macrostructural Anatomy and Tractography of the Acoustic Radiation. <b>2019</b> , 13, 27	15
458	Review: Using diffusion-weighted magnetic resonance imaging techniques to explore the microstructure and connectivity of subcortical white matter tracts in the human auditory system. <b>2019</b> , 377, 1-11	4
457	Investigation of anisotropic fishing line-based phantom as tool in quality control of diffusion tensor imaging. <b>2019</b> , 12, 161-171	1
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455	Anatomically constrained tractography facilitates biologically plausible fiber reconstruction of the optic radiation in multiple sclerosis. <b>2019</b> , 22, 101740	8

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453	Multiparametric graph theoretical analysis reveals altered structural and functional network topology in Alzheimer's disease. <b>2019</b> , 22, 101680		12
452	Brain connectivity alterations in early psychosis: from clinical to neuroimaging staging. <b>2019</b> , 9, 62		17
451	Microscopic anisotropy misestimation in spherical-mean single diffusion encoding MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3245-3261	4-4	43
450	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. <b>2019</b> , 13, 24		11
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448	Ultrahigh field magnetic resonance imaging: new frontiers and possibilities in human imaging. <b>2019</b> , 62, 1214-1232		1
447	The Dmipy Toolbox: Diffusion MRI Multi-Compartment Modeling and Microstructure Recovery Made Easy. <b>2019</b> , 13, 64		21
446	Premature white matter aging in patients with right mesial temporal lobe epilepsy: A machine learning approach based on diffusion MRI data. <b>2019</b> , 24, 102033		14
445	Scale-discretised ridgelet transform on the sphere. <b>2019</b> ,		
444	Fiber visualization for preoperative glioma assessment: Tractography versus local connectivity mapping. <b>2019</b> , 14, e0226153		3
443	Trigeminal nerve and white matter brain abnormalities in chronic orofacial pain disorders. <b>2019</b> , 4, e755		10
442	A Preliminary High-Definition Fiber Tracking Study of the Executive Control Network in Blast-Induced Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2019</b> , 36, 686-701	5-4	4
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440	Tilted-CAIPI for highly accelerated distortion-free EPI with point spread function (PSF) encoding. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 377-392	4-4	23
439	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. <b>2019</b> , 184, 140-160		21
438	Learning Compact q-Space Representations for Multi-Shell Diffusion-Weighted MRI. <b>2019</b> , 38, 834-843		13
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435	Simultaneous NODDI and GFA parameter map generation from subsampled q-space imaging using deep learning. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 2399-2411	4.4	26
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433	Motion-robust diffusion compartment imaging using simultaneous multi-slice acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3314-3329	4.4	6
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426	Challenges in diffusion MRI tractography - Lessons learned from international benchmark competitions. <b>2019</b> , 57, 194-209		56
425	Mapping connectomes with diffusion MRI: deterministic or probabilistic tractography?. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1368-1384	4.4	84
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419	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. <b>2020</b> , 51, 234-249		21

418	High-gradient diffusion MRI reveals distinct estimates of axon diameter index within different white matter tracts in the in vivo human brain. <b>2020</b> , 225, 1277-1291		24
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414	Going Beyond Diffusion Tensor Imaging Tractography in Eloquent Glioma Surgery-High-Resolution Fiber Tractography: Q-Ball or Constrained Spherical Deconvolution?. <i>World Neurosurgery</i> , <b>2020</b> , 134, e596-e609	2.1	9
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405	HARDI-ZOOMit protocol improves specificity to microstructural changes in presymptomatic myelopathy. <b>2020</b> , 10, 17529		5
404	Association of self-regulation with white matter correlates in boys with and without autism spectrum disorder. <b>2020</b> , 10, 13811		1
403	Quantitative Corticospinal Tract Assessment in Acute Intracerebral Hemorrhage. <b>2021</b> , 12, 540-549		2
402	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. <b>2020</b> , 33, e4348		8
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398	Generalization of diffusion magnetic resonance imaging-based brain age prediction model through transfer learning. <b>2020</b> , 217, 116831		15
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387	The Utility of Diffusion Tensor Imaging in Neuromodulation: Moving Beyond Conventional Magnetic Resonance Imaging. <b>2020</b> , 23, 427-435		3
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383	Estimating Brain Connectivity With Diffusion-Weighted Magnetic Resonance Imaging: Promise and Peril. <b>2020</b> , 5, 846-854		1

382	Asymmetric fiber trajectory distribution estimation using streamline differential equation. <i>Medical Image Analysis</i> , <b>2020</b> , 63, 101686	15.4	3
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380	Transmural Remodeling of Cardiac Microstructure in Aged Spontaneously Hypertensive Rats by Diffusion Tensor MRI. <b>2020</b> , 11, 265		0
379	Microstructural Alterations in Hippocampal Subfields Mediate Age-Related Memory Decline in Humans. <b>2020</b> , 12, 94		10
378	Implementation of clinical tractography for pre-surgical planning of space occupying lesions: An investigation of common acquisition and post-processing methods compared to dissection studies. <b>2020</b> , 15, e0231440		4
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374	A Macro-Structural Dispersion Characteristic of Brain White Matter and Its Application to Bipolar Disorder. <b>2021</b> , 68, 428-435		1
373	State-of-the-art imaging for glioma surgery. <b>2021</b> , 44, 1331-1343		12
372	Diffusion coefficient orientation distribution function for diffusion magnetic resonance imaging. <b>2021</b> , 348, 108986		1
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