

In vivo fiber tractography using DT-MRI data

Magnetic Resonance in Medicine

44, 625-632

DOI: [10.1002/1522-2594\(200010\)44:4<625::aid-mrm17>3.0.co;2-o](https://doi.org/10.1002/1522-2594(200010)44:4<625::aid-mrm17>3.0.co;2-o)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Data analysis techniques and applications of diffusion tensor imaging. , 0, , .		0
3	A first-principles approach for diffusion tensor based fiber tracking. NeuroImage, 2001, 13, 123.	2.1	0
4	The physical basis of diffusion-weighted MRI. Journal of the Neurological Sciences, 2001, 186, S11-S14.	0.3	54
6	Water Diffusion Changes in Wallerian Degeneration and Their Dependence on White Matter Architecture. NeuroImage, 2001, 13, 1174-1185.	2.1	839
7	Diffusion Tensor Imaging and Axonal Tracking in the Human Brainstem. NeuroImage, 2001, 14, 723-735.	2.1	484
8	Validation of Diffusion Tensor Magnetic Resonance Axonal Fiber Imaging with Registered Manganese-Enhanced Optic Tracts. NeuroImage, 2001, 14, 1035-1047.	2.1	176
9	Neuroimaging studies in Rett syndrome. Brain and Development, 2001, 23, S62-S71.	0.6	73
10	Evidence for cortical "disconnection" as a mechanism of age-related cognitive decline. Neurology, 2001, 57, 632-638.	1.5	728
11	Functional Magnetic Resonance Imaging and Spectroscopic Imaging of the Brain: Application of fmri and fmrS to Reading Disabilities and Education. Learning Disability Quarterly, 2001, 24, 189-203.	0.9	17
12	An immersive virtual environment for DT-MRI volume visualization applications: a case study. , 0, , .		53
13	Segmenting brain white matter, gray matter and cerebro-spinal fluid using diffusion tensor-MRI derived indices. Magnetic Resonance Imaging, 2001, 19, 1167-1172.	1.0	21
14	Anisotropy in high angular resolution diffusion-weighted MRI. Magnetic Resonance in Medicine, 2001, 45, 935-939.	1.9	377
15	Theoretical analysis of the effects of noise on diffusion tensor imaging. Magnetic Resonance in Medicine, 2001, 46, 1174-1188.	1.9	264
17	Analytical Computation of the Eigenvalues and Eigenvectors in DT-MRI. Journal of Magnetic Resonance, 2001, 152, 41-47.	1.2	115
18	History and future directions of human brain mapping and functional neuroimaging. Acta Psychologica, 2001, 107, 9-42.	0.7	106
19	Complementary emerging techniques: high-resolution PET and MRI. Current Opinion in Neurobiology, 2001, 11, 621-629.	2.0	83
20	Multi-component decaying behavior on high-b-value diffusion-weighted MRI. , 0, , .		0
21	Case study: reconstruction, visualization and quantification of neuronal fiber pathways. , 0, , .		2

#	ARTICLE	IF	CITATIONS
22	Mapping cortical connectivity with diffusion MRI. , 0, , .		6
23	A geometric flow for white matter fibre tract reconstruction. , 0, , .		14
24	Oriented tensor reconstruction: tracing neural pathways from diffusion tensor MRI. , 0, , .		47
25	Diffusion Tensor Imaging and Its Application to Neuropsychiatric Disorders. Harvard Review of Psychiatry, 2002, 10, 324-336.	0.9	121
26	Diffusion Tensor MR Imaging of the Brain and White Matter Tractography. American Journal of Roentgenology, 2002, 178, 3-16.	1.0	270
27	Holoprosencephaly in Children: Diffusion Tensor MR Imaging of White Matter Tracts of the Brainstemâ€™Initial Experience. Radiology, 2002, 223, 645-651.	3.6	62
28	Disproportionate increases of white matter in right frontal lobe in Tourette syndrome. Neurology, 2002, 58, 85-89.	1.5	115
29	Radial Organization of Developing Preterm Human Cerebral Cortex Revealed by Non-invasive Water Diffusion Anisotropy MRI. Cerebral Cortex, 2002, 12, 1237-1243.	1.6	335
30	New Approaches to Estimation of White Matter Connectivity in Diffusion Tensor MRI: Elliptic PDEs and Geodesics in a Tensor-Warped Space. Lecture Notes in Computer Science, 2002, , 459-466.	1.0	69
31	Semiparametric Bayesian models for human brain mapping. Statistical Modelling, 2002, 2, 235-249.	0.5	9
32	Speech production: Wernicke, Broca and beyond. Brain, 2002, 125, 1829-1838.	3.7	296
33	Imaging techniques. NeuroImage, 2002, 16, 37-258.	2.1	24
35	Estimating distributed anatomical connectivity using fast marching methods and diffusion tensor imaging. IEEE Transactions on Medical Imaging, 2002, 21, 505-512.	5.4	270
36	Diffusion imaging in multiple sclerosis. Neuroimaging Clinics of North America, 2002, 12, 71-106.	0.5	34
37	Diffusion-tensor imaging of white matter tracts in patients with cerebral neoplasm. Journal of Neurosurgery, 2002, 97, 568-575.	0.9	359
38	Imaging neuroscience: Lessons from studies of brain plasticity. , 0, , .		0
39	Initial Demonstration of in Vivo Tracing of Axonal Projections in the Macaque Brain and Comparison with the Human Brain Using Diffusion Tensor Imaging and Fast Marching Tractography. NeuroImage, 2002, 15, 797-809.	2.1	171
40	Three-Dimensional Diffusion Tensor Magnetic Resonance Microimaging of Adult Mouse Brain and Hippocampus. NeuroImage, 2002, 15, 892-901.	2.1	91

#	ARTICLE	IF	CITATIONS
41	Investigating Cervical Spinal Cord Structure Using Axial Diffusion Tensor Imaging. <i>NeuroImage</i> , 2002, 16, 93-102.	2.1	240
42	Fiber Tracking from DTI Using Linear State Space Models: Detectability of the Pyramidal Tract. <i>NeuroImage</i> , 2002, 16, 378-388.	2.1	137
43	Virtual in Vivo Interactive Dissection of White Matter Fasciculi in the Human Brain. <i>NeuroImage</i> , 2002, 17, 77-94.	2.1	1,515
44	Spatial Normalization and Averaging of Diffusion Tensor MRI Data Sets. <i>NeuroImage</i> , 2002, 17, 592-617.	2.1	208
45	Stereotaxic Localization, Intersubject Variability, and Interhemispheric Differences of the Human Auditory Thalamocortical System. <i>NeuroImage</i> , 2002, 17, 142-160.	2.1	74
46	Dysmyelination Revealed through MRI as Increased Radial (but Unchanged Axial) Diffusion of Water. <i>NeuroImage</i> , 2002, 17, 1429-1436.	2.1	2,301
47	A Framework for Callosal Fiber Distribution Analysis. <i>NeuroImage</i> , 2002, 17, 1131-1143.	2.1	126
48	EZ-tracing: a new ready-to-use algorithm for magnetic resonance tractography. <i>Journal of Neuroscience Methods</i> , 2002, 116, 147-155.	1.3	23
49	Magnetic resonance imaging: role in the understanding of cerebral malformations. <i>Brain and Development</i> , 2002, 24, 2-12.	0.6	71
50	Visualization of major fiber tracts and cortical functions in patients with cerebral gliomas. <i>International Congress Series</i> , 2002, 1247, 153-163.	0.2	1
51	Diffusion tensor brain imaging and tractography. <i>Neuroimaging Clinics of North America</i> , 2002, 12, 1-19.	0.5	69
52	Intraoperative magnetic resonance imaging and magnetic resonance imaging-guided therapy for brain tumors. <i>Neuroimaging Clinics of North America</i> , 2002, 12, 665-683.	0.5	41
53	Principles, Methods, and Applications of Diffusion Tensor Imaging. , 2002, , 379-397.		10
54	Exploring white matter tracts in band heterotopia using diffusion tractography. <i>Annals of Neurology</i> , 2002, 52, 327-334.	2.8	55
55	High-value-q-space analyzed diffusion-weighted MRI: Application to multiple sclerosis. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 115-126.	1.9	228
56	Imaging cortical association tracts in the human brain using diffusion-tensor-based axonal tracking. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 215-223.	1.9	534
57	Limitations and requirements of diffusion tensor fiber tracking: An assessment using simulations. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 701-708.	1.9	103
58	High-resolution isotropic 3D diffusion tensor imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 837-843.	1.9	57

#	ARTICLE	IF	CITATIONS
59	White matter mapping using diffusion tensor MRI. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 967-972.	1.9	115
60	Diffusion tensor imaging using single-shot SENSE-EPI. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 128-136.	1.9	267
61	Orientalional diffusion reflects fiber structure within a voxel. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 454-459.	1.9	80
62	Improved white matter fiber tracking using stochastic labeling. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 677-683.	1.9	51
63	High angular resolution diffusion imaging reveals intravoxel white matter fiber heterogeneity. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 577-582.	1.9	1,428
64	A Continuous Tensor Field Approximation of Discrete DT-MRI Data for Extracting Microstructural and Architectural Features of Tissue. <i>Journal of Magnetic Resonance</i> , 2002, 154, 85-100.	1.2	135
65	Highb-value q-space analyzed diffusion-weighted MRS and MRI in neuronal tissues - a technical review. <i>NMR in Biomedicine</i> , 2002, 15, 516-542.	1.6	257
66	Diffusion tensor fiber tracking of human brain connectivity: aquisition methods, reliability analysis and biological results. <i>NMR in Biomedicine</i> , 2002, 15, 494-515.	1.6	161
67	A framework based on spin glass models for the inference of anatomical connectivity from diffusion-weighted MR data - a technical review. <i>NMR in Biomedicine</i> , 2002, 15, 481-492.	1.6	61
68	Fiber tracking: principles and strategies - a technical review. <i>NMR in Biomedicine</i> , 2002, 15, 468-480.	1.6	1,859
69	Diffusion-tensor MRI: theory, experimental design and data analysis - a technical review. <i>NMR in Biomedicine</i> , 2002, 15, 456-467.	1.6	1,291
70	Isotropic resolution diffusion tensor imaging with whole brain acquisition in a clinically acceptable time. <i>Human Brain Mapping</i> , 2002, 15, 216-230.	1.9	172
71	T 1 relaxation time mapping of white matter tracts in multiple sclerosis defined by diffusion tensor imaging. <i>Journal of Neurology</i> , 2002, 249, 1272-1278.	1.8	30
72	Processing and visualization for diffusion tensor MRI. <i>Medical Image Analysis</i> , 2002, 6, 93-108.	7.0	707
73	MRI inter-slice reconstruction using super-resolution. <i>Magnetic Resonance Imaging</i> , 2002, 20, 437-446.	1.0	258
74	A 3D fiber model of the human brainstem. <i>Computerized Medical Imaging and Graphics</i> , 2002, 26, 439-444.	3.5	12
75	Mapping the development of white matter tracts with diffusion tensor imaging. <i>Developmental Science</i> , 2002, 5, 293-300.	1.3	28
76	Functional Assessment of Tissues with Magnetic Resonance Imaging. <i>Annals of the New York Academy of Sciences</i> , 2002, 961, 203-205.	1.8	10

#	ARTICLE	IF	CITATIONS
77	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1131-1140.	1.0	28
78	Deviations from the diffusion tensor model as revealed by contour plot visualization using high angular resolution diffusion-weighted imaging (HARDI). <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2003, 16, 93-102.	1.1	14
79	High-field magnetic resonance techniques for brain research. <i>Current Opinion in Neurobiology</i> , 2003, 13, 612-619.	2.0	30
80	White matter tractography using diffusion tensor deflection. <i>Human Brain Mapping</i> , 2003, 18, 306-321.	1.9	545
81	A framework for a streamline-based probabilistic index of connectivity (PICO) using a structural interpretation of MRI diffusion measurements. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 242-254.	1.9	482
82	DTI-based three-dimensional tractography detects differences in the pyramidal tracts of infants and children with congenital hemiparesis. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 641-648.	1.9	97
83	Directional correlation characterization and classification of white matter tracts. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 271-275.	1.9	20
84	Effects of equilibrium exchange on diffusion-weighted NMR signals: The diffusigraphic ?shutter-speed?. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 450-458.	1.9	89
85	Classification and quantification of neuronal fiber pathways using diffusion tensor MRI. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 716-721.	1.9	155
86	Conventional DTI vs. slow and fast diffusion tensors in cat visual cortex. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 785-790.	1.9	31
87	Circular spectrum mapping for intravoxel fiber structures based on high angular resolution apparent diffusion coefficients. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 1077-1088.	1.9	28
88	Generalized diffusion tensor imaging and analytical relationships between diffusion tensor imaging and high angular resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 955-965.	1.9	367
89	Relative indices of water diffusion anisotropy are equivalent in live and formalin-fixed mouse brains. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 743-748.	1.9	218
90	Characterization and propagation of uncertainty in diffusion-weighted MR imaging. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 1077-1088.	1.9	2,715
91	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003, 6, 750-757.	7.1	2,131
92	Parametric and non-parametric statistical analysis of DT-MRI data. <i>Journal of Magnetic Resonance</i> , 2003, 161, 1-14.	1.2	139
93	Diffusion tensor imaging: background, potential, and utility in psychiatric research. <i>Biological Psychiatry</i> , 2003, , .	0.7	0
94	Application of new MR techniques in pediatric patients. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2003, 11, 493-522.	0.6	10

#	ARTICLE	IF	CITATIONS
95	From diffusion tractography to quantitative white matter tract measures: a reproducibility study. <i>NeuroImage</i> , 2003, 18, 348-359.	2.1	219
96	DTI mapping of human brain connectivity: statistical fibre tracking and virtual dissection. <i>NeuroImage</i> , 2003, 19, 545-554.	2.1	288
97	Validation of diffusion spectrum magnetic resonance imaging with manganese-enhanced rat optic tracts and ex vivo phantoms. <i>NeuroImage</i> , 2003, 19, 482-495.	2.1	205
98	Combined functional MRI and tractography to demonstrate the connectivity of the human primary motor cortex in vivo. <i>NeuroImage</i> , 2003, 19, 1349-1360.	2.1	319
99	Diffusion tractography based group mapping of major white-matter pathways in the human brain. <i>NeuroImage</i> , 2003, 19, 1545-1555.	2.1	116
100	Diffusion-weighted magnetic resonance imaging fibre tracking using a front evolution algorithm. <i>NeuroImage</i> , 2003, 20, 276-288.	2.1	64
101	An error analysis of white matter tractography methods: synthetic diffusion tensor field simulations. <i>NeuroImage</i> , 2003, 20, 1140-1153.	2.1	154
102	Functional activation using apparent diffusion coefficient-dependent contrast allows better spatial localization to the neuronal activity: evidence using diffusion tensor imaging and fiber tracking. <i>NeuroImage</i> , 2003, 20, 955-961.	2.1	49
104	Intraoperative three-dimensional visualization of the pyramidal tract in a neuronavigation system (PTV) reliably predicts true position of principal motor pathways. <i>World Neurosurgery</i> , 2003, 60, 381-390.	1.3	75
105	Diffusion tensor imaging detects and differentiates axon and myelin degeneration in mouse optic nerve after retinal ischemia. <i>NeuroImage</i> , 2003, 20, 1714-1722.	2.1	1,593
106	White matter fiber tracking in patients with space-occupying lesions of the brain: a new technique for neurosurgical planning?. <i>NeuroImage</i> , 2003, 20, 1601-1608.	2.1	252
107	Spatial normalization of diffusion tensor MRI using multiple channels. <i>NeuroImage</i> , 2003, 20, 1995-2009.	2.1	194
108	Cingulate fasciculus integrity disruption in schizophrenia: a magnetic resonance diffusion tensor imaging study. <i>Biological Psychiatry</i> , 2003, 54, 1171-1180.	0.7	377
109	Visualizing diffusion tensor mr images using streamtubes and streamsurfaces. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2003, 9, 454-462.	2.9	153
110	In vivo MR tractography using diffusion imaging. <i>European Journal of Radiology</i> , 2003, 45, 223-234.	1.2	219
111	MR diffusion tensor imaging: recent advance and new techniques for diffusion tensor visualization. <i>European Journal of Radiology</i> , 2003, 46, 53-66.	1.2	301
112	Diffusion MRI of Complex Neural Architecture. <i>Neuron</i> , 2003, 40, 885-895.	3.8	655
113	D: The Diffusion of Water., 0, , 203-256.		11

#	ARTICLE	IF	CITATIONS
115	Pyramidal tract mapping by diffusion tensor magnetic resonance imaging in multiple sclerosis: improving correlations with disability. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 203-207.	0.9	117
116	Occipito-temporal connections in the human brain. <i>Brain</i> , 2003, 126, 2093-2107.	3.7	829
117	Georges Marinescu (1864-1938). <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 207-207.	0.9	0
118	Level set modeling and segmentation of diffusion tensor magnetic resonance imaging brain data. <i>Journal of Electronic Imaging</i> , 2003, 12, 125.	0.5	85
119	Heart-muscle fiber reconstruction from diffusion tensor MRI. , 0, , .		30
120	White matter connectivity by diffusion distance on 3T MRI. , 0, , .		0
121	Delineating gray and white matter involvement in brain lesions: three-dimensional alignment of functional magnetic resonance imaging and diffusion-tensor imaging. <i>Journal of Neurosurgery</i> , 2003, 99, 1018-1027.	0.9	88
122	Comparisons of Regional White Matter Diffusion in Healthy Neonates and Adults Performed with a 3.0-T Head-only MR Imaging Unit. <i>Radiology</i> , 2003, 229, 673-681.	3.6	79
123	Diffusion-Weighted and Diffusion Tensor Magnetic Resonance Brain Imaging: Principles and Applications. <i>The Neuroradiology Journal</i> , 2003, 16, 207-220.	0.1	4
124	Diffusion Tensor Imaging of the Brain and Fiber Tracking. <i>The Neuroradiology Journal</i> , 2003, 16, 156-160.	0.1	0
125	Diffusion Imaging of the Human Spinal Cord and the Vertebral Column. <i>Topics in Magnetic Resonance Imaging</i> , 2003, 14, 461-476.	0.7	50
126	Childhood and current cognitive function in healthy 80-year-olds: a DT-MRI study. <i>NeuroReport</i> , 2003, 14, 345-349.	0.6	44
127	A method for non-rigid registration of diffusion tensor magnetic resonance images. , 2003, 5032, 1186.		2
128	Coloring of DT-MRI Fiber Traces Using Laplacian Eigenmaps. <i>Lecture Notes in Computer Science</i> , 2003, , 518-529.	1.0	40
129	Diffusion Tensor Imaging. <i>Current Protocols in Magnetic Resonance Imaging</i> , 2003, 11, A6.4.1.	0.0	0
130	The application of neuropathologically sensitive MRI techniques to the study of psychosis. , 2003, , 128-148.		0
131	Inferring White Matter Geometry from Diffusion Tensor MRI: Application to Connectivity Mapping. <i>Lecture Notes in Computer Science</i> , 2004, , 127-140.	1.0	54
132	Fundamentals of diffusion MR imaging. , 2004, , 54-85.		2

#	ARTICLE	IF	CITATIONS
133	MR tractography using diffusion tensor MR imaging. , 2004, , 86-98.		3
134	ADVANCED PULSE SEQUENCE TECHNIQUES. , 2004, , 802-954.		11
135	Level Set and Region Based Surface Propagation for Diffusion Tensor MRI Segmentation. Lecture Notes in Computer Science, 2004, , 123-134.	1.0	35
136	Functional and Diffusion-Weighted Magnetic Resonance Imaging for Visualization of the Postthalamic Visual Fiber Tracts and the Visual Cortex. Minimally Invasive Neurosurgery, 2004, 47, 160-164.	0.9	9
137	3-D Diffusion Tensor Axonal Tracking shows Distinct SMA and Pre-SMA Projections to the Human Striatum. Cerebral Cortex, 2004, 14, 1302-1309.	1.6	260
138	Diffusion-weighted Single Shot Echo Planar Imaging of Colorectal Cancer Using a Sensitivity-encoding Technique. Japanese Journal of Clinical Oncology, 2004, 34, 620-626.	0.6	103
139	Diffusion tensor MRI correlates with executive dysfunction in patients with ischaemic leukoaraiosis. Journal of Neurology, Neurosurgery and Psychiatry, 2004, 75, 441-447.	0.9	332
140	Diffusion tensor imaging of thalamus correlates with cognition in CADASIL without dementia. Neurology, 2004, 62, 702-707.	1.5	90
141	Estimation of multiple fiber orientations from diffusion tensor MRI. , 0, , .		0
142	Diffusion tensor imaging: techniques and clinical applications. , 2004, 2004, 5223-5.		6
143	Robust fiber tracking method by vector selection criterion in diffusion tensor images. , 2004, 2004, 1080-3.		5
144	Diffusion and tissue microstructure. Journal of Physics Condensed Matter, 2004, 16, S5213-S5220.	0.7	21
145	Assessing DTI data quality using bootstrap analysis. Magnetic Resonance in Medicine, 2004, 52, 582-589.	1.9	48
146	Diffusive sensitivity to muscle architecture: a magnetic resonance diffusion tensor imaging study of the human calf. European Journal of Applied Physiology, 2004, 93, 253-262.	1.2	147
147	Diffusion tensor imaging of the brain: review of clinical applications. Neuroradiology, 2004, 46, 339-350.	1.1	385
148	Fast quantitative diffusion-tensor imaging of cerebral white matter from the neonatal period to adolescence. Neuroradiology, 2004, 46, 258-266.	1.1	205
149	Diffusion tensor fiber tracking shows distinct corticostriatal circuits in humans. Annals of Neurology, 2004, 55, 522-529.	2.8	498
150	Macromolecular crowding in biological systems: hydrodynamics and NMR methods. Journal of Molecular Recognition, 2004, 17, 397-407.	1.1	47

#	ARTICLE	IF	CITATIONS
151	Clinical applications of diffusion tensor imaging. Journal of Magnetic Resonance Imaging, 2004, 19, 6-18.	1.9	183
152	Directional correlation in white matter tracks of the human brain. Journal of Magnetic Resonance Imaging, 2004, 20, 25-30.	1.9	12
153	Visualization and analysis of white matter structural asymmetry in diffusion tensor MRI data. Magnetic Resonance in Medicine, 2004, 51, 140-147.	1.9	48
154	Enhancing measured diffusion anisotropy in gray matter by eliminating CSF contamination with FLAIR. Magnetic Resonance in Medicine, 2004, 51, 423-427.	1.9	31
155	SENSE-DTI at 3 T. Magnetic Resonance in Medicine, 2004, 51, 230-236.	1.9	202
156	The effect of gradient sampling schemes on measures derived from diffusion tensor MRI: A Monte Carlo study. Magnetic Resonance in Medicine, 2004, 51, 807-815.	1.9	714
157	Characterizing non-gaussian diffusion by using generalized diffusion tensors. Magnetic Resonance in Medicine, 2004, 51, 924-937.	1.9	224
158	Analysis of noise effects on DTI-based tractography using the brute-force and multi-ROI approach. Magnetic Resonance in Medicine, 2004, 52, 559-565.	1.9	169
159	Correction of high-order eddy current induced geometric distortion in diffusion-weighted echo-planar images. Magnetic Resonance in Medicine, 2004, 52, 1184-1189.	1.9	51
160	The effect of rotational angle and experimental parameters on the diffraction patterns and micro-structural information obtained from q-space diffusion NMR: implication for diffusion in white matter fibers. Journal of Magnetic Resonance, 2004, 169, 30-38.	1.2	75
161	DT-MRI denoising and neuronal fiber tracking. Medical Image Analysis, 2004, 8, 95-111.	7.0	77
162	Analysis of MR diffusion weighted images. British Journal of Radiology, 2004, 77, S176-S185.	1.0	46
163	Quantitative Evaluation of Image-Based Distortion Correction in Diffusion Tensor Imaging. IEEE Transactions on Medical Imaging, 2004, 23, 789-798.	5.4	92
164	DT-MRI estimation, regularization and fiber tractography. , 0, , .		7
165	Tracking cerebral white matter pathways from diffusion tensor imaging data: application in patients with brain tumors. , 0, , .		0
166	800Exploration of the brain's white matter pathways with dynamic queries. , 0, , .		19
167	Visualization of the Interaction of Multiple Sclerosis Lesions with Adjacent White Matter Fibers Using Streamtubes and Streamsurfaces. , 0, , .		0
168	Basis functions for estimating intra-voxel structure in DW-MRI. , 0, , .		3

#	ARTICLE	IF	CITATIONS
169	Diffusion-tensor imaging-guided tracking of fibers of the pyramidal tract combined with intraoperative cortical stimulation mapping in patients with gliomas. <i>Journal of Neurosurgery</i> , 2004, 101, 66-72.	0.9	236
170	Fiber Tract-based Atlas of Human White Matter Anatomy. <i>Radiology</i> , 2004, 230, 77-87.	3.6	1,727
172	Novel MR contrasts to reveal more about the brain. <i>Neuroimaging Clinics of North America</i> , 2004, 14, 449-470.	0.5	7
174	Diffusion tensor imaging: background, potential, and utility in psychiatric research. <i>Biological Psychiatry</i> , 2004, 55, 201-207.	0.7	184
175	New approaches for exploring anatomical and functional connectivity in the human brain. <i>Biological Psychiatry</i> , 2004, 56, 613-619.	0.7	206
176	Advances in High-Field Magnetic Resonance Imaging. <i>Annual Review of Biomedical Engineering</i> , 2004, 6, 157-184.	5.7	101
177	Imaging of postthalamic visual fiber tracts by anisotropic diffusion weighted MRI and diffusion tensor imaging: principles and applications. <i>European Journal of Radiology</i> , 2004, 49, 91-104.	1.2	24
178	The Study of Neural Connectivity Using Diffusion Tensor Tracking. <i>Cortex</i> , 2004, 40, 213-215.	1.1	13
179	Three-dimensional visualization of major white matter tracts by diffusion tensor imaging-based fiber tracking. <i>International Congress Series</i> , 2004, 1268, 703-706.	0.2	1
180	Interactive volume rendering of thin thread structures within multivalued scientific data sets. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2004, 10, 664-672.	2.9	45
181	Subcortical pathways serving cortical language sites: initial experience with diffusion tensor imaging fiber tracking combined with intraoperative language mapping. <i>NeuroImage</i> , 2004, 21, 616-622.	2.1	144
182	Characterizing function-structure relationships in the human visual system with functional MRI and diffusion tensor imaging. <i>NeuroImage</i> , 2004, 21, 1452-1463.	2.1	149
183	Noninvasive in vivo demonstration of the connections of the human parahippocampal gyrus. <i>NeuroImage</i> , 2004, 22, 740-747.	2.1	116
184	Singularities in diffusion tensor fields and their relevance in white matter fiber tractography. <i>NeuroImage</i> , 2004, 22, 481-491.	2.1	39
185	Diffusion tensor imaging: serial quantitation of white matter tract maturity in premature newborns. <i>NeuroImage</i> , 2004, 22, 1302-1314.	2.1	306
186	Direct estimation of the fiber orientation density function from diffusion-weighted MRI data using spherical deconvolution. <i>NeuroImage</i> , 2004, 23, 1176-1185.	2.1	1,466
187	Mapping the orientation of intravoxel crossing fibers based on the phase information of diffusion circular spectrum. <i>NeuroImage</i> , 2004, 23, 1358-1369.	2.1	24
188	Visualization of Central Nervous System Nerve Communications Using Diffusion Tensor Imaging. <i>The Neuroradiology Journal</i> , 2004, 17, 135-144.	0.1	5

#	ARTICLE	IF	CITATIONS
189	MR diffusion tensor imaging (DTI) and neuropsychological testing for neuronal connectivity in Alzheimer's disease (AD) patients. , 2004, 5369, 238.		3
190	DT-MRI regularization using 3D nonlinear gradient vector flow anisotropic diffusion. , 2004, 2004, 1880-3.		3
191	Diffusion Tensor MR Imaging. Current Protocols in Magnetic Resonance Imaging, 2004, 12, B8.1.1.	0.0	0
192	Diffusion-weighted Imaging of Breast Cancer with the Sensitivity Encoding Technique: Analysis of the Apparent Diffusion Coefficient Value. Magnetic Resonance in Medical Sciences, 2004, 3, 79-85.	1.1	170
193	Preoperative and Intraoperative Diffusion Tensor Imaging-based Fiber Tracking in Glioma Surgery. Neurosurgery, 2005, 56, 130-138.	0.6	379
194	Robust multi-component modeling of diffusion tensor magnetic resonance imaging data. , 2005, , .		2
195	In Vivo Visualization of White Matter Fiber Tracts of Preterm- and Term-Infant Brains With Diffusion Tensor Magnetic Resonance Imaging. Investigative Radiology, 2005, 40, 110-115.	3.5	55
196	Estimating intensity variance due to noise in registered images. , 2005, , .		1
197	Evaluation of MRI DTI-tractography by tract-length histogram. , 2005, , .		4
198	Functional Identification of the Primary Motor Area by Corticospinal Tractography. Operative Neurosurgery, 2005, 56, 98-109.	0.4	61
199	A model for noise effects on fibre tract trajectories in diffusion tensor imaging: theory and simulations. New Journal of Physics, 2005, 7, 24-24.	1.2	2
200	Sequential Visualization of Brain and Fiber Tract Deformation during Intracranial Surgery with Three-dimensional Ultrasound: An Approach to Evaluate the Effect of Brain Shift. Operative Neurosurgery, 2005, 56, ONS-133-ONS-141.	0.4	43
201	Fiber tracking by simulating diffusion process with diffusion kernels in human brain with DT-MRI data. , 2005, , .		0
202	White matter fiber tract segmentation in DT-MRI using geometric flows. Medical Image Analysis, 2005, 9, 223-236.	7.0	71
203	White matter tractography by anisotropic wavefront evolution and diffusion tensor imaging. Medical Image Analysis, 2005, 9, 427-440.	7.0	74
204	Modeling diffusion in white matter in the brain: A composite porous medium. Magnetic Resonance Imaging, 2005, 23, 215-220.	1.0	28
205	Combining Functional and Diffusion Tensor MRI. Annals of the New York Academy of Sciences, 2005, 1064, 1-15.	1.8	24
206	White Matter Tractography by Means of Turboprop Diffusion Tensor Imaging. Annals of the New York Academy of Sciences, 2005, 1064, 78-87.	1.8	12

#	ARTICLE	IF	CITATIONS
207	Occipital-Callosal Pathways in Children: Validation and Atlas Development. <i>Annals of the New York Academy of Sciences</i> , 2005, 1064, 98-112.	1.8	49
208	Adolescents with Disruptive Behavior Disorder Investigated Using an Optimized MR Diffusion Tensor Imaging Protocol. <i>Annals of the New York Academy of Sciences</i> , 2005, 1064, 184-192.	1.8	45
209	The neuroscience of grasping. <i>Nature Reviews Neuroscience</i> , 2005, 6, 726-736.	4.9	511
210	Diffusion Tensor Imaging of the Brain: Background and Review of Clinical Applications. <i>Imaging Decisions (Berlin, Germany)</i> , 2005, 9, 2-15.	0.2	2
211	Self-diffusion anisotropy of water in sheep Achilles tendon. <i>NMR in Biomedicine</i> , 2005, 18, 577-586.	1.6	19
212	Optic radiation changes after optic neuritis detected by tractography-based group mapping. <i>Human Brain Mapping</i> , 2005, 25, 308-316.	1.9	114
213	Analysis of b-value calculations in diffusion weighted and diffusion tensor imaging. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2005, 25A, 53-66.	0.2	35
214	Perisylvian language networks of the human brain. <i>Annals of Neurology</i> , 2005, 57, 8-16.	2.8	1,684
215	High-resolution diffusion-weighted imaging with interleaved variable-density spiral acquisitions. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 21, 468-475.	1.9	29
216	Tractography-based quantitation of diffusion tensor imaging parameters in white matter tracts of preterm newborns. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 467-474.	1.9	129
217	Macroscopic orientation component analysis of brain white matter and thalamus based on diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 649-657.	1.9	28
218	Mathematical framework for simulating diffusion tensor MR neural fiber bundles. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 944-953.	1.9	77
219	Confidence mapping in diffusion tensor magnetic resonance imaging tractography using a bootstrap approach. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1143-1149.	1.9	133
220	PASTA: Pointwise assessment of streamline tractography attributes. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1462-1467.	1.9	113
221	Limitations of apparent diffusion coefficient-based models in characterizing non-gaussian diffusion. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 419-428.	1.9	32
222	Noise removal in magnetic resonance diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 393-401.	1.9	82
223	Determination and analysis of guided wave propagation using magnetic resonance elastography. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 893-900.	1.9	50
224	Simulation of anisotropic growth of low-grade gliomas using diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 616-624.	1.9	247

#	ARTICLE	IF	CITATIONS
225	Axial asymmetry of water diffusion in brain white matter. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 860-867.	1.9	23
226	Multitensor approach for analysis and tracking of complex fiber configurations. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1216-1225.	1.9	117
227	PROPELLER EPI: An MRI technique suitable for diffusion tensor imaging at high field strength with reduced geometric distortions. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1232-1240.	1.9	115
228	MR tractography with diffusion tensor imaging in clinical routine. <i>Neuroradiology</i> , 2005, 47, 334-343.	1.1	28
229	Analysis of the brain-stem white-matter tracts with diffusion tensor imaging. <i>Neuroradiology</i> , 2005, 47, 895-902.	1.1	66
231	Manganese-enhanced MRI of rat spinal cord injury. <i>Magnetic Resonance Imaging</i> , 2005, 23, 829-832.	1.0	35
232	Importance of exactb-tensor calculation for quantitative diffusion tensor imaging and tracking of neuronal fiber bundles. <i>Applied Magnetic Resonance</i> , 2005, 29, 107-122.	0.6	5
234	Fiber Tracking in q-Ball Fields Using Regularized Particle Trajectories. <i>Lecture Notes in Computer Science</i> , 2005, 19, 52-63.	1.0	85
235	Diffusion Tensor Imaging with Three-dimensional Fiber Tractography of Traumatic Axonal Shearing Injury: An Imaging Correlate for the Posterior Callosal "Disconnection" Syndrome: Case Report. <i>Neurosurgery</i> , 2005, 56, E195-E201.	0.6	78
236	Level Set Segmentation of Biological Volume Datasets. , 2005, , 415-478.		3
237	Structural and functional magnetic resonance imaging in neurodegenerative diseases. , 2005, , 253-289.		2
238	Approximating Anatomical Brain Connectivity with Diffusion Tensor MRI Using Kernel-Based Diffusion Simulations. <i>Lecture Notes in Computer Science</i> , 2005, 19, 64-75.	1.0	9
239	Quantitative diffusion tensor imaging in cerebral palsy due to periventricular white matter injury. <i>Brain</i> , 2005, 128, 2562-2577.	3.7	217
240	New insights into the anatomo-functional connectivity of the semantic system: a study using cortico-subcortical electrostimulations. <i>Brain</i> , 2005, 128, 797-810.	3.7	563
241	Q-ball imaging of macaque white matter architecture. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 869-879.	1.8	50
242	Beyond localization: from hodology to function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 767-779.	1.8	111
243	Visualization of the Pyramidal Tract in Glioma Surgery by Integrating Diffusion Tensor Imaging in Functional Neuronavigation. <i>Zentralblatt Fur Neurochirurgie</i> , 2005, 66, 133-141.	0.5	66
244	Visualization of neuronal fiber connections from DT-MRI with global optimization. , 2005, , .		6

#	ARTICLE	IF	CITATIONS
245	In vivomagnetic resonance imaging: insights into structure and function of the central nervous system. Measurement Science and Technology, 2005, 16, R17-R36.	1.4	9
246	Quantification of White Matter using Diffusionâ€Tensor Imaging. International Review of Neurobiology, 2005, 66, 167-212.	0.9	5
247	Functional organization of human occipital-callosal fiber tracts. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7350-7355.	3.3	173
248	White Matter Fiber Tracking Method by Vector Interpolation with Diffusion Tensor Imaging Data in Human Brain. , 2005, 2005, 5786-9.		4
249	Visualization of White Matter Tracts with Wrapped Streamlines. , 0, , .		12
250	Visual field map clusters in human cortex. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 693-707.	1.8	244
252	The rises and falls of disconnection syndromes. Brain, 2005, 128, 2224-2239.	3.7	787
253	Non-invasive Fiber Tracking on Diffusion Tensor MRI Using High-Temperature Superconducting Tape RF coil. , 2005, 2005, 2329-32.		0
254	Diffusion Tensor Imaging: Technique, Clinical and Research Applications. The Neuroradiology Journal, 2005, 18, 419-435.	0.1	17
255	Diffusion tensor imaging and tractography of distal peripheral nerves at 3 T. Clinical Neurophysiology, 2005, 116, 2315-2323.	0.7	125
256	Fiber-tracking does not accurately estimate size of fiber bundle in pathological condition: initial neurosurgical experience using neuronavigation and subcortical white matter stimulation. NeuroImage, 2005, 25, 424-429.	2.1	268
257	Bootstrap white matter tractography (BOOT-TRAC). NeuroImage, 2005, 24, 524-532.	2.1	181
258	Automatic analysis of cerebral asymmetry: an exploratory study of the relationship between brain torque and planum temporale asymmetry. NeuroImage, 2005, 24, 678-691.	2.1	100
259	A method for obtaining tract-specific diffusion tensor MRI measurements in the presence of disease: application to patients with clinically isolated syndromes suggestive of multiple sclerosis. NeuroImage, 2005, 26, 258-265.	2.1	182
260	Estimating intensity variance due to noise in registered images: Applications to diffusion tensor MRI. NeuroImage, 2005, 26, 673-684.	2.1	44
261	Flow-based fiber tracking with diffusion tensor and q-ball data: Validation and comparison to principal diffusion direction techniques. NeuroImage, 2005, 27, 725-736.	2.1	155
262	Quantitative diffusion tensor MRI fiber tractography of sensorimotor white matter development in premature infants. NeuroImage, 2005, 27, 862-871.	2.1	203
263	Unsupervised identification of white matter tracts in a mouse brain using a directional correlation-based region growing (DCRG) algorithm. NeuroImage, 2005, 28, 380-388.	2.1	11

#	ARTICLE	IF	CITATIONS
264	Exploring Connectivity of the Brain's White Matter with Dynamic Queries. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 419-430.	2.9	98
265	A Diffusion Tensor Magnetic Resonance Imaging Study of Frontal Cortex Connections in Very-Late-Onset Schizophrenia-Like Psychosis. American Journal of Geriatric Psychiatry, 2005, 13, 1092-1099.	0.6	71
266	Diffusion Tensor Imaging and Fiber Tractography in Acute Stroke. Neuroimaging Clinics of North America, 2005, 15, 655-665.	0.5	100
267	Imagerie cÃ©rÃ©brale en tenseur de diffusion et tractographie de la substance blanche : principes et limites actuelles. Feuilles De Radiologie, 2005, 45, 191-199.	0.0	2
268	White matter fiber tractography via anisotropic diffusion simulation in the human brain. IEEE Transactions on Medical Imaging, 2005, 24, 1127-1137.	5.4	37
269	Fast and Reproducible Fiber Bundle Selection in DTI Visualization. , 0, , .		17
270	Evaluation of Fiber Clustering Methods for Diffusion Tensor Imaging. , 0, , .		54
271	Estimation of multiple fiber orientations from diffusion tensor MRI using independent component analysis. IEEE Transactions on Nuclear Science, 2005, 52, 266-273.	1.2	15
272	Use of High-Tc Superconducting Tape RF Coils for Non-invasive Fiber Tracking on Diffusion Tensor MRI application. , 2005, , .		0
273	Diffusion-Weighted, Perfusion-Weighted, and Functional MR Imaging. , 2005, , 1073-1114.		1
274	Visualization strategies for major white matter tracts identified by diffusion tensor imaging for intraoperative use. International Congress Series, 2005, 1281, 793-797.	0.2	6
275	Diffusion tensor tractography in patients with cerebral tumors: A helpful technique for neurosurgical planning and postoperative assessment. European Journal of Radiology, 2005, 56, 197-204.	1.2	178
276	Diffusion Tensor Imaging of the Visual Sensory Pathway: Are We There Yet?. American Journal of Ophthalmology, 2005, 140, 896-897.	1.7	17
277	Diffusion Tensor Magnetic Resonance Imaging in Multiple Sclerosis. Journal of Neuroimaging, 2005, 15, 68S-81S.	1.0	74
278	A Model for Diffusion in White Matter in the Brain. Biophysical Journal, 2005, 89, 2927-2938.	0.2	245
279	Foundations of advanced magnetic resonance imaging. NeuroRx, 2005, 2, 167-196.	6.0	73
280	Diffusion Tensor Imaging in Schizophrenia. Biological Psychiatry, 2005, 58, 921-929.	0.7	305
281	â€œImportance samplingâ€™ in MS: Use of diffusion tensor tractography to quantify pathology related to specific impairment. Journal of the Neurological Sciences, 2005, 237, 13-19.	0.3	86

#	ARTICLE	IF	CITATIONS
282	Diffusion tensor magnetic resonance imaging of brain tumors. <i>Neurosurgery Clinics of North America</i> , 2005, 16, 115-134.	0.8	35
284	Diffusion Tensor Imaging and Tractography of Human Brain Development. <i>Neuroimaging Clinics of North America</i> , 2006, 16, 19-43.	0.5	201
285	Novel Multi-Tensor Estimation for High-Resolution Diffusion Tensor Magnetic Resonance Imaging. , 2006, , .		1
286	Hybrid Visualization for White Matter Tracts using Triangle Strips and Point Sprites. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006, 12, 1181-1188.	2.9	40
287	Frontostriatal Microstructure Modulates Efficient Recruitment of Cognitive Control. <i>Cerebral Cortex</i> , 2006, 16, 553-560.	1.6	424
288	Simulated Dataset for Verification & Validation of DT-MRI Analyzing Tools. , 2006, 2006, 1924-7.		1
289	Deformable registration of diffusion tensor MR images with explicit orientation optimization. <i>Medical Image Analysis</i> , 2006, 10, 764-785.	7.0	453
290	White matter fiber tracts of the human brain: Three-dimensional mapping at microscopic resolution, topography and intersubject variability. <i>NeuroImage</i> , 2006, 29, 1092-1105.	2.1	398
291	A rotation-invariant spherical harmonic decomposition method for mapping intravoxel multiple fiber structures. <i>NeuroImage</i> , 2006, 29, 1212-1223.	2.1	3
292	Application of Brodmann's area templates for ROI selection in white matter tractography studies. <i>NeuroImage</i> , 2006, 29, 868-878.	2.1	78
293	Resolving fiber crossing using advanced fast marching tractography based on diffusion tensor imaging. <i>NeuroImage</i> , 2006, 30, 110-120.	2.1	88
294	Intraoperative visualization of the pyramidal tract by diffusion-tensor-imaging-based fiber tracking. <i>NeuroImage</i> , 2006, 30, 1219-1229.	2.1	228
295	Characterization of displaced white matter by brain tumors using combined DTI and fMRI. <i>NeuroImage</i> , 2006, 30, 1100-1111.	2.1	226
296	Assessment of the early organization and maturation of infants' cerebral white matter fiber bundles: A feasibility study using quantitative diffusion tensor imaging and tractography. <i>NeuroImage</i> , 2006, 30, 1121-1132.	2.1	300
297	Resolution of complex tissue microarchitecture using the diffusion orientation transform (DOT). <i>NeuroImage</i> , 2006, 31, 1086-1103.	2.1	346
298	Evaluation of the GTRACT diffusion tensor tractography algorithm: A validation and reliability study. <i>NeuroImage</i> , 2006, 31, 1075-1085.	2.1	53
299	Improved fiber tractography with Bayesian tensor regularization. <i>NeuroImage</i> , 2006, 31, 1061-1074.	2.1	25
300	Unified framework for anisotropic interpolation and smoothing of diffusion tensor images. <i>NeuroImage</i> , 2006, 31, 1525-1535.	2.1	19

#	ARTICLE	IF	CITATIONS
301	Fibertract segmentation in position orientation space from high angular resolution diffusion MRI. <i>NeuroImage</i> , 2006, 32, 665-675.	2.1	41
302	Hemispheric asymmetries in language-related pathways: A combined functional MRI and tractography study. <i>NeuroImage</i> , 2006, 32, 388-399.	2.1	373
303	Quantitative analysis along the pyramidal tract by length-normalized parameterization based on diffusion tensor tractography: Application to patients with relapsing neuromyelitis optica. <i>NeuroImage</i> , 2006, 33, 154-160.	2.1	47
304	Structural insights from high-resolution diffusion tensor imaging and tractography of the isolated rat hippocampus. <i>NeuroImage</i> , 2006, 32, 1499-1509.	2.1	69
305	Spatial resolution dependence of DTI tractography in human occipito-callosal region. <i>NeuroImage</i> , 2006, 32, 1243-1249.	2.1	48
306	Improved segmentation reproducibility in group tractography using a quantitative tract similarity measure. <i>NeuroImage</i> , 2006, 33, 482-492.	2.1	22
307	Structural Neuroimaging Research Methods in Geriatric Depression. <i>American Journal of Geriatric Psychiatry</i> , 2006, 14, 812-822.	0.6	30
308	Diffusion Imaging: Insight to Cell Status and Cytoarchitecture. <i>Neuroimaging Clinics of North America</i> , 2006, 16, 619-632.	0.5	93
309	Diffusion Tensor Magnetic Resonance Imaging of Brain Tumors. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2006, 14, 183-202.	0.6	28
310	Neuroimaging Techniques: a Conceptual Overview of Physical Principles, Contribution and History. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
311	Diffusion tensor magnetic resonance imaging tractography in cognitive disorders. <i>Current Opinion in Neurology</i> , 2006, 19, 599-606.	1.8	175
312	A Bayesian approach for stochastic white matter tractography. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 965-978.	5.4	216
313	Neuroplasticity in Human Callosal Dysgenesis: A Diffusion Tensor Imaging Study. <i>Cerebral Cortex</i> , 2006, 17, 531-541.	1.6	126
314	Surgical treatment of paraventricular cavernous angioma: Fibre tracking for visualizing the corticospinal tract and determining surgical approach. <i>Journal of Clinical Neuroscience</i> , 2006, 13, 1028-1032.	0.8	26
315	Determining anatomical connectivities between cortical and brainstem pain processing regions in humans: A diffusion tensor imaging study in healthy controls. <i>Pain</i> , 2006, 123, 169-178.	2.0	182
316	Principles of Diffusion Tensor Imaging and Its Applications to Basic Neuroscience Research. <i>Neuron</i> , 2006, 51, 527-539.	3.8	1,467
317	Optimization of white matter tractography for pre-surgical planning and image-guided surgery. <i>Oncology Reports</i> , 2006, 15, 1061-1064.	1.2	26
319	Clinical Usefulness of Diffusion-weighted Imaging Using Low and High b-values to Detect Rectal Cancer. <i>Magnetic Resonance in Medical Sciences</i> , 2006, 5, 173-177.	1.1	81

#	ARTICLE	IF	CITATIONS
320	White matter fiber tractography based on a directional diffusion field in diffusion tensor MRI. , 2006, , .		0
321	Computational neuroimaging: maps and tracks in the human brain. , 2006, 6057, 605701.		2
322	Diffusion Tensor Magnetic Resonance Imaging. Journal of Neuro-Ophthalmology, 2006, 26, 51-60.	0.4	28
323	Assessment of Cardiac Performance with Magnetic Resonance Imaging. Current Cardiology Reviews, 2006, 2, 271-282.	0.6	6
324	Implementation of Fiber Tract Navigation. Operative Neurosurgery, 2006, 58, ONS-292-ONS-304.	0.4	98
325	Three-dimensional Anisotropy Contrast Periodically Rotated Overlapping Parallel Lines with Enhanced Reconstruction (3DAC PROPELLER) on a 3.0T System: A New Modality for Routine Clinical Neuroimaging. Journal of Neuroimaging, 2006, 16, 206-211.	1.0	17
326	Towards multimodal atlases of the human brain. Nature Reviews Neuroscience, 2006, 7, 952-966.	4.9	261
327	Reduced white matter connectivity in the corpus callosum of children with Tourette syndrome. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2006, 47, 1013-1022.	3.1	99
328	High-resolution diffusion tensor imaging of the hippocampus in temporal lobe epilepsy. Epilepsy Research, 2006, 71, 102-106.	0.8	77
329	In vivo isotropic 3D diffusion tensor mapping of the rat brain using diffusion-weighted 3D MP-RAGE MRI. Magnetic Resonance Imaging, 2006, 24, 287-293.	1.0	18
330	Investigation of multicomponent diffusion in cat brain using a combined MTCâ€“DWI approach. Magnetic Resonance Imaging, 2006, 24, 425-431.	1.0	12
331	Geometrically constrained two-tensor model for crossing tracts in DWI. Magnetic Resonance Imaging, 2006, 24, 1263-1270.	1.0	119
332	How accurately can the diffusion profiles indicate multiple fiber orientations? A study on general fiber crossings in diffusion MRI. Journal of Magnetic Resonance, 2006, 183, 193-202.	1.2	47
333	3D curve inference for diffusion MRI regularization and fibre tractographyâ†. Medical Image Analysis, 2006, 10, 799-813.	7.0	52
334	Complementary aspects of diffusion imaging and fMRI; I: structure and function. Magnetic Resonance Imaging, 2006, 24, 463-474.	1.0	10
335	Fractional anisotropy and mean diffusivity measurements on normal human brain: comparison between low- and high-resolution diffusion tensor imaging sequences. European Radiology, 2006, 16, 187-192.	2.3	35
336	Model-Based Variational Smoothing and Segmentation for Diffusion Tensor Imaging in the Brain. Neuroinformatics, 2006, 4, 217-234.	1.5	4
337	Basis Tensor Decomposition for Restoring Intra-Voxel Structure and Stochastic Walks for Inferring Brain Connectivity in DT-MRI. International Journal of Computer Vision, 2006, 69, 77-92.	10.9	22

#	ARTICLE	IF	CITATIONS
338	Quantifying Human Brain Connectivity from Diffusion Tensor MRI. <i>Journal of Mathematical Imaging and Vision</i> , 2006, 25, 227-244.	0.8	3
339	Extension of paralimbic low grade gliomas: toward an anatomical classification based on white matter invasion patterns. <i>Journal of Neuro-Oncology</i> , 2006, 78, 179-185.	1.4	155
340	Computational Model of Interstitial Transport in the Spinal Cord using Diffusion Tensor Imaging. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1304-1321.	1.3	65
341	Localizing complex neural circuits with MEG data. <i>Cognitive Processing</i> , 2006, 7, 53-59.	0.7	4
342	Magnetic resonance and the human brain: anatomy, function and metabolism. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 1106-1124.	2.4	12
344	Anatomical correlates of the functional organization in the human occipitotemporal cortex. <i>Magnetic Resonance Imaging</i> , 2006, 24, 583-590.	1.0	67
345	Advances in white matter imaging: A review of in vivo magnetic resonance methodologies and their applicability to the study of development and aging. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 762-774.	2.9	241
346	Imaging nervous pathways with MR tractography. <i>Radiologia Medica</i> , 2006, 111, 268-283.	4.7	4
347	Visualization Strategies for Major White Matter Tracts for Intraoperative Use. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2006, 1, 13-22.	1.7	7
348	DtiStudio: Resource program for diffusion tensor computation and fiber bundle tracking. <i>Computer Methods and Programs in Biomedicine</i> , 2006, 81, 106-116.	2.6	910
349	Novel image processing techniques to better understand white matter disruption in multiple sclerosis. <i>Autoimmunity Reviews</i> , 2006, 5, 544-548.	2.5	5
350	Tract-specific anisotropy measurements in diffusion tensor imaging. <i>Psychiatry Research - Neuroimaging</i> , 2006, 146, 73-82.	0.9	148
351	Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia. <i>Human Brain Mapping</i> , 2006, 27, 230-238.	1.9	224
352	Multiscale white matter fiber tract coregistration: A new feature-based approach to align diffusion tensor data. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1414-1423.	1.9	69
353	Q-ball reconstruction of multimodal fiber orientations using the spherical harmonic basis. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 104-117.	1.9	338
354	Log-Euclidean metrics for fast and simple calculus on diffusion tensors. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 411-421.	1.9	913
355	Just how much data need to be collected for reliable bootstrap DT-MRI?. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 884-890.	1.9	19
356	Diffusion tensor imaging (DTI) of rodent brains in vivo using a 1.5T clinical MR scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 747-751.	1.9	13

#	ARTICLE	IF	CITATIONS
357	Presurgical planning for tumor resectioning. Journal of Magnetic Resonance Imaging, 2006, 23, 887-905.	1.9	137
358	Tensor deflection (TEND) tractography with adaptive subvoxel stepping. Journal of Magnetic Resonance Imaging, 2006, 24, 451-458.	1.9	9
359	A Kernel-Based Approach for User-Guided Fiber Bundling using Diffusion Tensor Data. , 2006, 2006, 2626-9.		3
360	Thalamus Segmentation from Diffusion Tensor Magnetic Resonance Imaging. , 2006, 2006, 3628-31.		5
361	Sampling DTI fibers in the human brain based on DWI forward modeling. , 2006, 2006, 4885-8.		4
362	Magnetic Resonance Microscopy of Mouse Brain Development. , 2006, 124, 129-147.		10
363	Infants with Perinatal Hypoxic Ischemia: Feasibility of Fiber Tracking at Birth and 3 Months. Radiology, 2006, 240, 203-214.	3.6	21
364	Corticospinal Tract Localization: Integration of Diffusion-Tensor Tractography at 3-T MR Imaging with Intraoperative White Matter Stimulation Mappingâ€™ Preliminary Results. Radiology, 2006, 240, 849-857.	3.6	96
365	Diffusion-Tensor Fiber Tractography: Intraindividual Comparison of 3.0-T and 1.5-T MR Imaging. Radiology, 2006, 238, 668-678.	3.6	76
366	Diffusion Tensor Imaging Reveals White Matter Reorganization in Early Blind Humans. Cerebral Cortex, 2006, 16, 1653-1661.	1.6	220
367	Diffusion tensor imaging and voxel based morphometry study in early progressive supranuclear palsy. Journal of Neurology, Neurosurgery and Psychiatry, 2006, 77, 457-463.	0.9	166
368	Connectivity-Based Parcellation of Broca's Area. Cerebral Cortex, 2006, 17, 816-825.	1.6	476
369	Medical Technologies in Neurosurgery. , 2006, , .		0
370	Corticospinal Tract Atrophy in Corticobasal Degeneration. Archives of Neurology, 2006, 63, 462.	4.9	11
371	Validation and Regularization in Diffusion MRI Tractography. , 0, , .		9
372	Accelerating DTI tractography using FPGAs. , 2006, , .		1
373	Model-Based Tractography Based on Statistical Atlas of MR-DTI. , 0, , .		1
374	VISUALIZING NEURONAL STRUCTURES IN THE HUMAN BRAIN VIA DIFFUSION TENSOR MRI. International Journal of Neuroscience, 2006, 116, 461-514.	0.8	14

#	ARTICLE	IF	CITATIONS
375	Estimation of white matter connectivity based on a three-dimensional directional diffusion function in diffusion tensor MRI. <i>Medical Physics</i> , 2006, 33, 4643-4652.	1.6	3
376	Control Theory and Fast Marching Techniques for Brain Connectivity Mapping. , 0, , .		26
377	Symmetry of Cortical Folding Abnormalities in Williams Syndrome Revealed by Surface-Based Analyses. <i>Journal of Neuroscience</i> , 2006, 26, 5470-5483.	1.7	171
378	SPLITTING TRACKING THROUGH CROSSING FIBERS: MULTIDIRECTIONAL Q-BALL TRACKING. , 2007, , .		12
379	Locally-Constrained Region-Based Methods for DW-MRI Segmentation. , 2007, , 1-8.		9
380	Modified Fast Marching Tractography Algorithm and Its Ability to Detect Fibre Crossing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 319-22.	0.5	2
381	Temporal-callosal pathway diffusivity predicts phonological skills in children. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8556-8561.	3.3	213
382	Symmetries in human brain language pathways correlate with verbal recall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17163-17168.	3.3	558
383	Diffusion imaging in epilepsy. <i>Expert Review of Neurotherapeutics</i> , 2007, 7, 1043-1054.	1.4	5
384	Diffusion-Tensor MR Imaging and Tractography: Exploring Brain Microstructure and Connectivity. <i>Radiology</i> , 2007, 245, 367-384.	3.6	298
385	A longitudinal study of diffusion tensor MRI in ALS. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2007, 8, 348-355.	2.3	71
387	Tract-Based Morphometry. , 2007, , 161-168.		9
388	Thalamus Segmentation from Diffusion Tensor Magnetic Resonance Imaging. <i>International Journal of Biomedical Imaging</i> , 2007, 2007, 1-5.	3.0	30
389	Diffusion Tensor MRI Assessment of Skeletal Muscle Architecture. <i>Current Medical Imaging</i> , 2007, 3, 152-160.	0.4	45
390	Directional diffusivity as a magnetic resonance (MR) biomarker in demyelinating disease. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
391	Preservation of diffusion tensor properties during spatial normalization by use of tensor imaging and fibre tracking on a normal brain database. <i>Physics in Medicine and Biology</i> , 2007, 52, N99-N109.	1.6	101
392	Diffusion Tensor Fiber Tractography for Arteriovenous Malformations: Quantitative Analyses to Evaluate the Corticospinal Tract and Optic Radiation. <i>American Journal of Neuroradiology</i> , 2007, 28, 1107-1113.	1.2	66
393	Multimodal Imaging in Neurology: Special Focus on MRI Applications and MEC. <i>Synthesis Lectures on Biomedical Engineering</i> , 2007, 2, 1-75.	0.1	4

#	ARTICLE	IF	CITATIONS
394	Probabilistic Anatomical Connection Derived from QBI with MFACT Approach. , 2007, , .		4
395	Fiber Tracking: A Recursive Stack Algorithmic Approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 315-8.	0.5	1
396	Diffusion Tensor Analysis With Invariant Gradients and Rotation Tangents. IEEE Transactions on Medical Imaging, 2007, 26, 1483-1499.	5.4	63
397	A Probabilistic Model-Based Approach to Consistent White Matter Tract Segmentation. IEEE Transactions on Medical Imaging, 2007, 26, 1555-1561.	5.4	83
398	Neuroimaging of White Matter in Aging and Dementia. Clinical Neuropsychologist, 2007, 21, 73-109.	1.5	60
399	TWO-TENSOR FIBER TRACTOGRAPHY. , 2007, , .		11
400	The Development of Brain Connectivity Browser by Tractography of QBI. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2094-7.	0.5	1
401	Retrospective processing of DTI tractography to compensate for partial volume effects. , 2007, 6511, 673.		0
402	Function and Connectivity in Human Primary Auditory Cortex: A Combined fMRI and DTI Study at 3 Tesla. Cerebral Cortex, 2007, 17, 2420-2432.	1.6	58
403	Human Motor Corpus Callosum: Topography, Somatotopy, and Link between Microstructure and Function. Journal of Neuroscience, 2007, 27, 12132-12138.	1.7	375
404	From hodology to function. Brain, 2007, 130, 602-605.	3.7	156
405	Multitensor Tractography Enables Better Depiction of Motor Pathways: Initial Clinical Experience Using Diffusion-Weighted MR Imaging with Standard b-Value. American Journal of Neuroradiology, 2007, 28, 1668-1673.	1.2	32
406	Tumor Effects on Cerebral White Matter as Characterized by Diffusion Tensor Tractography. Canadian Journal of Neurological Sciences, 2007, 34, 62-68.	0.3	37
407	Reconstruction and Visualization of Fiber and Lamina Structure in the Normal Human Heart from Ex Vivo Diffusion Tensor Magnetic Resonance Imaging (DTMRI) Data. Investigative Radiology, 2007, 42, 777-789.	3.5	136
408	Advances in Magnetic Resonance Neuroimaging Techniques in the Evaluation of Neonatal Encephalopathy. Topics in Magnetic Resonance Imaging, 2007, 18, 3-29.	0.7	36
409	Diffusion Tensor Magnetic Resonance Imaging of Prostate Cancer. Investigative Radiology, 2007, 42, 412-419.	3.5	94
410	SURGERY OF INTRINSIC CEREBRAL TUMORS. Neurosurgery, 2007, 61, SHC-279-SHC-305.	0.6	63
411	CLINICAL EVALUATION AND FOLLOW-UP OUTCOME OF DIFFUSION TENSOR IMAGING-BASED FUNCTIONAL NEURONAVIGATION. Neurosurgery, 2007, 61, 935-949.	0.6	320

#	ARTICLE	IF	CITATIONS
412	Estimating number of fiber directions per voxel for ICA DTI tractography. , 2007, , .		0
413	Measuring Anisotropic Brain Diffusion in Three and Six Directions: Influence of the Off-Diagonal Tensor Elements. <i>Neuroradiology Journal</i> , 2007, 20, 18-24.	0.6	1
414	Influence of User-Defined Parameters on Diffusion Tensor Tractography of the Corticospinal Tract. <i>Neuroradiology Journal</i> , 2007, 20, 139-147.	0.6	12
415	IMPLEMENTATION OF FIBER TRACT NAVIGATION. <i>Neurosurgery</i> , 2007, 61, ONS-292-ONS-304.	0.6	37
416	Diffusion tensor sharpening improves white matter tractography. , 2007, , .		12
417	FUNCTIONAL IDENTIFICATION OF THE PRIMARY MOTOR AREA BY CORTICOSPINAL TRACTOGRAPHY. <i>Neurosurgery</i> , 2007, 61, ONS-98-ONS-109.	0.6	13
418	PREOPERATIVE AND INTRAOPERATIVE DIFFUSION TENSOR IMAGING-BASED FIBER TRACKING IN GLIOMA SURGERY. <i>Neurosurgery</i> , 2007, 61, 130-138.	0.6	149
419	Disordered connectivity in the autistic brain: Challenges for the "new psychophysiology"™. <i>International Journal of Psychophysiology</i> , 2007, 63, 164-172.	0.5	293
420	Diffusion tensor imaging demonstrates focal lesions of the corticospinal tract in hemiparetic patients with cerebral palsy. <i>Neuroscience Letters</i> , 2007, 420, 34-38.	1.0	57
421	Multivariate network analysis of fiber tract integrity in Alzheimer's™ disease. <i>NeuroImage</i> , 2007, 34, 985-995.	2.1	162
422	Quantitative diffusion tensor imaging in amyotrophic lateral sclerosis. <i>NeuroImage</i> , 2007, 34, 486-499.	2.1	192
423	Diffusion tensor studies dissociated two fronto-temporal pathways in the human memory system. <i>NeuroImage</i> , 2007, 34, 827-838.	2.1	53
424	Multimodal fMRI tractography in normal subjects and in clinically recovered traumatic brain injury patients. <i>NeuroImage</i> , 2007, 34, 1331-1341.	2.1	27
425	Fiber density asymmetry of the arcuate fasciculus in relation to functional hemispheric language lateralization in both right- and left-handed healthy subjects: A combined fMRI and DTI study. <i>NeuroImage</i> , 2007, 35, 1064-1076.	2.1	271
426	Characterizing brain anatomical connections using diffusion weighted MRI and graph theory. <i>NeuroImage</i> , 2007, 36, 645-660.	2.1	322
427	Reproducibility of quantitative tractography methods applied to cerebral white matter. <i>NeuroImage</i> , 2007, 36, 630-644.	2.1	1,464
428	Plasticity of the corticospinal tract in early blindness revealed by quantitative analysis of fractional anisotropy based on diffusion tensor tractography. <i>NeuroImage</i> , 2007, 36, 411-417.	2.1	80
429	A novel tensor distribution model for the diffusion-weighted MR signal. <i>NeuroImage</i> , 2007, 37, 164-176.	2.1	204

#	ARTICLE	IF	CITATIONS
430	A Bayesian framework for global tractography. <i>NeuroImage</i> , 2007, 37, 116-129.	2.1	243
431	Comparison of fiber tracts derived from in-vivo DTI tractography with 3D histological neural tract tracer reconstruction on a macaque brain. <i>NeuroImage</i> , 2007, 37, 530-538.	2.1	216
432	Validation of in vitro probabilistic tractography. <i>NeuroImage</i> , 2007, 37, 1267-1277.	2.1	212
433	Visualizing Whole-Brain DTI Tractography with GPU-based Tuboids and LoD Management. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2007, 13, 1488-1495.	2.9	41
434	Interactive Visualization of Volumetric White Matter Connectivity in DT-MRI Using a Parallel-Hardware Hamilton-Jacobi Solver. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2007, 13, 1480-1487.	2.9	53
435	Topological Visualization of Brain Diffusion MRI Data. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2007, 13, 1496-1503.	2.9	41
436	References and Suggested Readings. , 2007, , 163-173.		0
437	Cerebral White Matter " Historical Evolution of Facts and Notions Concerning the Organization of the Fiber Pathways of the Brain. <i>Journal of the History of the Neurosciences</i> , 2007, 16, 237-267.	0.1	87
438	Association fibre pathways of the brain: parallel observations from diffusion spectrum imaging and autoradiography. <i>Brain</i> , 2007, 130, 630-653.	3.7	948
439	A Robust Algorithm for Fiber-Bundle Atlas Construction. , 2007, , .		2
440	Impact of an Improved Combination of Signals From Array Coils in Diffusion Tensor Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1428-1436.	5.4	16
441	Fast Time-Space Tracking of Smoothly Moving Fine Structures in Image Sequences. , 2007, , .		1
442	Automatic Tractography Segmentation Using a High-Dimensional White Matter Atlas. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1562-1575.	5.4	342
443	Error Propagation Framework for Diffusion Tensor Imaging via Diffusion Tensor Representations. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1017-1034.	5.4	36
444	Geometric Means in a Novel Vector Space Structure on Symmetric Positive-Definite Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007, 29, 328-347.	0.7	573
445	Pattern Recognition in Bioinformatics. <i>Lecture Notes in Computer Science</i> , 2007, , .	1.0	1
446	Visualizing White Matter Pathways in the Living Human Brain: Diffusion Tensor Imaging and Beyond. <i>Neuroimaging Clinics of North America</i> , 2007, 17, 407-426.	0.5	27
447	Interfrontal commissural abnormality in schizophrenia: Tractography-assisted callosal parcellation. <i>Schizophrenia Research</i> , 2007, 97, 236-241.	1.1	22

#	ARTICLE	IF	CITATIONS
448	Extracting Brain Connectivity from Diffusion MRI [Life Sciences]. IEEE Signal Processing Magazine, 2007, 24, 124-152.	4.6	8
449	A Volumetric Approach to Quantifying Region-to-Region White Matter Connectivity in Diffusion Tensor MRI. Lecture Notes in Computer Science, 2007, 20, 346-358.	1.0	44
450	Neurobiological and neurocognitive effects of chronic cigarette smoking and alcoholism. Frontiers in Bioscience - Landmark, 2007, 12, 4079.	3.0	78
451	Integral curves of noisy vector fields and statistical problems in diffusion tensor imaging: Nonparametric kernel estimation and hypotheses testing. Annals of Statistics, 2007, 35, .	1.4	23
452	Physical foundations, models, and methods of diffusion magnetic resonance imaging of the brain: A review. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2007, 30A, 278-307.	0.2	71
453	Variance of estimated DTI-derived parameters via first-order perturbation methods. Magnetic Resonance in Medicine, 2007, 57, 141-149.	1.9	39
454	Diffusion properties of NAA in human corpus callosum as studied with diffusion tensor spectroscopy. Magnetic Resonance in Medicine, 2007, 58, 1045-1053.	1.9	38
455	Study of order and dynamic processes in tendon by NMR and MRI. Journal of Magnetic Resonance Imaging, 2007, 25, 362-380.	1.9	60
456	Effects of signal-to-noise ratio on the accuracy and reproducibility of diffusion tensor imaging-derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. Journal of Magnetic Resonance Imaging, 2007, 26, 756-767.	1.9	336
457	Improvement of the diffusion-weighted images acquired with radial trajectories using projection data regeneration. Journal of Magnetic Resonance Imaging, 2007, 26, 799-804.	1.9	2
458	An image-processing toolset for diffusion tensor tractography. Magnetic Resonance Imaging, 2007, 25, 365-376.	1.0	8
459	Diffusion tensor imaging of the brain. Neurotherapeutics, 2007, 4, 316-329.	2.1	2,186
460	A level set method for segmentation of the thalamus and its nuclei in DT-MRI. Signal Processing, 2007, 87, 309-321.	2.1	62
461	Diffusion tensor imaging: an overview. Acta Neuropsychiatrica, 2007, 19, 127-128.	1.0	8
462	Making sense of neuroimaging in psychiatry. Acta Psychiatrica Scandinavica, 2008, 117, 100-117.	2.2	63
463	Speed of lexical decision correlates with diffusion anisotropy in left parietal and frontal white matter: Evidence from diffusion tensor imaging. Neuropsychologia, 2007, 45, 2439-2446.	0.7	105
464	A review of diffusion tensor imaging studies in schizophrenia. Journal of Psychiatric Research, 2007, 41, 15-30.	1.5	686
465	Magnetic resonance imaging of Alzheimer's disease. European Radiology, 2007, 17, 347-362.	2.3	61

#	ARTICLE	IF	CITATIONS
466	Clinical applications of diffusion tensor imaging and tractography in children. <i>Pediatric Radiology</i> , 2007, 37, 769-780.	1.1	65
467	Hepatic pseudo-anisotropy: a specific artifact in hepatic diffusion-weighted images obtained with respiratory triggering. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007, 20, 205-211.	1.1	58
468	Diffusion tensor imaging and white matter tractography in patients with brainstem lesions. <i>Acta Neurochirurgica</i> , 2007, 149, 1117-1131.	0.9	127
469	Neuroimaging of tic disorders with co-existing attention-deficit/hyperactivity disorder. <i>European Child and Adolescent Psychiatry</i> , 2007, 16, 60-70.	2.8	57
470	Multiparameter characterisation of vertebral osteoporosis with 3-T MR. <i>Radiologia Medica</i> , 2007, 112, 208-223.	4.7	25
471	Role of magnetic resonance tractography in the preoperative planning and intraoperative assessment of patients with intra-axial brain tumours. <i>Radiologia Medica</i> , 2007, 112, 906-920.	4.7	36
472	Anisotropic diffusion of metabolites in peripheral nerve using diffusion weighted magnetic resonance spectroscopy at ultra-high field. <i>Journal of Magnetic Resonance</i> , 2007, 184, 20-28.	1.2	19
473	Correction of susceptibility artifacts in diffusion tensor data using non-linear registration. <i>Medical Image Analysis</i> , 2007, 11, 588-603.	7.0	39
474	Delineating white matter structure in diffusion tensor MRI with anisotropy creases. <i>Medical Image Analysis</i> , 2007, 11, 492-502.	7.0	54
475	A unified framework for clustering and quantitative analysis of white matter fiber tracts. <i>Medical Image Analysis</i> , 2008, 12, 191-202.	7.0	122
476	Diffusion tensor imaging fiber tracking with local tissue property sensitivity: phantom and in vivo validation. <i>Magnetic Resonance Imaging</i> , 2008, 26, 103-108.	1.0	15
477	Development and initial evaluation of 7-T q-ball imaging of the human brain. <i>Magnetic Resonance Imaging</i> , 2008, 26, 171-180.	1.0	23
478	Diffusion tensor fiber tracking on graphics processing units. <i>Computerized Medical Imaging and Graphics</i> , 2008, 32, 521-530.	3.5	14
479	Diffusion Tensor Imaging (DTI)-based White Matter Mapping in Brain Research: A Review. <i>Journal of Molecular Neuroscience</i> , 2008, 34, 51-61.	1.1	1,252
480	Diffusion imaging concepts for clinicians. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1-7.	1.9	203
481	A tracking-based diffusion tensor imaging segmentation method for the detection of diffusion-related changes of the cervical spinal cord with aging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 978-991.	1.9	70
482	Diffusion tensor imaging and fiber tractography of C6 rat glioma. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 566-573.	1.9	16
483	Visualization of the protective ability of a free radical trapping compound against rat C6 and F98 gliomas with diffusion tensor fiber tractography. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 574-587.	1.9	25

#	ARTICLE	IF	CITATIONS
484	Revisiting anaplastic astrocytomas II: Further characterization of an expansive growth pattern with visually enhanced diffusion tensor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1322-1336.	1.9	6
485	Quantitative magnetic resonance of postmortem multiple sclerosis brain before and after fixation. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 268-277.	1.9	255
486	Axcaliber: A method for measuring axon diameter distribution from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1347-1354.	1.9	763
487	Focal reversible deactivation of cerebral metabolism affects water diffusion. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1178-1189.	1.9	14
488	Three-dimensional water diffusion in impermeable cylindrical tubes: theory versus experiments. <i>NMR in Biomedicine</i> , 2008, 21, 888-898.	1.6	44
489	Diffusion tensor magnetic resonance imaging in spinal cord injury. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2008, 32A, 219-237.	0.2	9
490	Corpus callosal connection mapping using cortical gray matter parcellation and DT-MRI. <i>Human Brain Mapping</i> , 2008, 29, 503-516.	1.9	221
491	Can we use diffusion MRI as a biomarker of neurodegenerative processes?. <i>BioEssays</i> , 2008, 30, 1235-1245.	1.2	36
492	A multiple streamline approach to high angular resolution diffusion tractography. <i>Medical Engineering and Physics</i> , 2008, 30, 989-996.	0.8	23
493	In vivo visualization of displacement-distribution-derived parameters in q-space imaging. <i>Magnetic Resonance Imaging</i> , 2008, 26, 77-87.	1.0	43
494	Simultaneous magnetic resonance imaging of diffusion anisotropy and diffusion gradient. <i>Magnetic Resonance Imaging</i> , 2008, 26, 337-346.	1.0	1
495	Variational multiple-tensor fitting of fiber-ambiguous diffusion-weighted magnetic resonance imaging voxels. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1133-1144.	1.0	41
496	Mapping spatiotemporal diffusion inside the human brain using a numerical solution of the diffusion equation. <i>Magnetic Resonance Imaging</i> , 2008, 26, 694-702.	1.0	7
497	The effect of the rotational angle on MR diffusion indices in nerves: Is the rms displacement of the slow-diffusing component a good measure of fiber orientation?. <i>Journal of Magnetic Resonance</i> , 2008, 190, 33-42.	1.2	8
498	Evidence That MR Diffusion Tensor Imaging (Tractography) Predicts the Natural History of Regional Progression in Patients Irradiated Conformally for Primary Brain Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1553-1562.	0.4	39
499	Is diffusion anisotropy an accurate monitor of myelination?. <i>Magnetic Resonance Imaging</i> , 2008, 26, 874-888.	1.0	208
500	Quantitative diffusion tensor fiber tracking of age-related changes in the limbic system. <i>European Radiology</i> , 2008, 18, 130-137.	2.3	61
501	Diffusion tensor imaging and tractography of the median nerve in carpal tunnel syndrome: preliminary results. <i>European Radiology</i> , 2008, 18, 2283-2291.	2.3	153

#	ARTICLE	IF	CITATIONS
502	Assessment of calf muscle contraction by diffusion tensor imaging. <i>European Radiology</i> , 2008, 18, 2303-2310.	2.3	70
503	On the Reliability of Quantitative Volumetric and Structural Neuroimaging. <i>Imaging Decisions (Berlin,)</i> Tj ETQq1 1 0,784314 rgBT /Ov	0.2	3
504	Abnormalities in diffusion tensor imaging of the uncinate fasciculus relate to reduced memory in temporal lobe epilepsy. <i>Epilepsia</i> , 2008, 49, 1409-1418.	2.6	196
505	Brain Diffusion Abnormalities in Children With Fetal Alcohol Spectrum Disorder. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1732-1740.	1.4	175
506	Selective Diffusion Changes of The Visual Pathways in Patients with Migraine: A 3-T Tractography Study. <i>Cephalalgia</i> , 2008, 28, 1061-1068.	1.8	69
507	Abstractive Representation and Exploration of Hierarchically Clustered Diffusion Tensor Fiber Tracts. <i>Computer Graphics Forum</i> , 2008, 27, 1071-1078.	1.8	30
508	The Elliptical Cone of Uncertainty and Its Normalized Measures in Diffusion Tensor Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 834-846.	5.4	26
509	Tractography Gone Wild: Probabilistic Fibre Tracking Using the Wild Bootstrap With Diffusion Tensor MRI. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 1268-1274.	5.4	133
511	Diffusion-based tractography in neurological disorders: concepts, applications, and future developments. <i>Lancet Neurology</i> , The, 2008, 7, 715-727.	4.9	360
512	Telencephalon: Neocortex. , 2008, , 491-679.		7
513	The arcuate fasciculus and the disconnection theme in language and aphasia: History and current state. <i>Cortex</i> , 2008, 44, 953-961.	1.1	656
514	Studying connections in the living human brain with diffusion MRI. <i>Cortex</i> , 2008, 44, 936-952.	1.1	435
515	A diffusion tensor imaging tractography atlas for virtual in vivo dissections. <i>Cortex</i> , 2008, 44, 1105-1132.	1.1	1,441
516	Diffusion spectrum magnetic resonance imaging (DSI) tractography of crossing fibers. <i>NeuroImage</i> , 2008, 41, 1267-1277.	2.1	854
517	Finsler Active Contours. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008, 30, 412-423.	9.7	98
518	Identifying White-Matter Fiber Bundles in DTI Data Using an Automated Proximity-Based Fiber-Clustering Method. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2008, 14, 1044-1053.	2.9	91
519	In vivo DTI of the healthy and injured cat spinal cord at high spatial and angular resolution. <i>NeuroImage</i> , 2008, 40, 685-697.	2.1	49
520	Atlas-based segmentation of white matter tracts of the human brain using diffusion tensor tractography and comparison with classical dissection. <i>NeuroImage</i> , 2008, 39, 62-79.	2.1	338

#	ARTICLE	IF	CITATIONS
521	Tract probability maps in stereotaxic spaces: Analyses of white matter anatomy and tract-specific quantification. <i>NeuroImage</i> , 2008, 39, 336-347.	2.1	1,293
522	High-resolution diffusion tensor imaging and tractography of the human optic chiasm at 9.4ÅT. <i>NeuroImage</i> , 2008, 39, 157-168.	2.1	92
523	Probabilistic streamline q-ball tractography using the residual bootstrap. <i>NeuroImage</i> , 2008, 39, 215-222.	2.1	152
524	Combining fMRI and DTI: A framework for exploring the limits of fMRI-guided DTI fiber tracking and for verifying DTI-based fiber tractography results. <i>NeuroImage</i> , 2008, 39, 119-126.	2.1	98
525	Motor and language DTI Fiber Tracking combined with intraoperative subcortical mapping for surgical removal of gliomas. <i>NeuroImage</i> , 2008, 39, 369-382.	2.1	372
526	Structural damage to the corticospinal tract correlates with bilateral sensorimotor cortex reorganization in stroke patients. <i>NeuroImage</i> , 2008, 39, 1370-1382.	2.1	112
527	Complementary information from multi-exponential T2 relaxation and diffusion tensor imaging reveals differences between multiple sclerosis lesions. <i>NeuroImage</i> , 2008, 40, 77-85.	2.1	43
528	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. <i>NeuroImage</i> , 2008, 40, 570-582.	2.1	1,528
529	Microstructural maturation of the human brain from childhood to adulthood. <i>NeuroImage</i> , 2008, 40, 1044-1055.	2.1	1,223
530	Labeling of ambiguous subvoxel fibre bundle configurations in high angular resolution diffusion MRI. <i>NeuroImage</i> , 2008, 41, 58-68.	2.1	69
531	White matter tract integrity and intelligence in patients with mental retardation and healthy adults. <i>NeuroImage</i> , 2008, 40, 1533-1541.	2.1	111
532	Corpus callosum damage in heavy marijuana use: Preliminary evidence from diffusion tensor tractography and tract-based spatial statistics. <i>NeuroImage</i> , 2008, 41, 1067-1074.	2.1	154
533	Altered cerebellar feedback projections in Asperger syndrome. <i>NeuroImage</i> , 2008, 41, 1184-1191.	2.1	259
534	Evaluation of the accuracy and angular resolution of q-ball imaging. <i>NeuroImage</i> , 2008, 42, 262-271.	2.1	41
535	Cognitive processing speed and the structure of white matter pathways: Convergent evidence from normal variation and lesion studies. <i>NeuroImage</i> , 2008, 42, 1032-1044.	2.1	413
536	Automated fiber tracking of human brain white matter using diffusion tensor imaging. <i>NeuroImage</i> , 2008, 42, 771-777.	2.1	87
537	A tractography comparison between turboprop and spin-echo echo-planar diffusion tensor imaging. <i>NeuroImage</i> , 2008, 42, 1451-1462.	2.1	16
538	Probabilistic fibre tracking: Differentiation of connections from chance events. <i>NeuroImage</i> , 2008, 42, 1329-1339.	2.1	103

#	ARTICLE	IF	CITATIONS
539	Connecting and merging fibres: Pathway extraction by combining probability maps. <i>NeuroImage</i> , 2008, 43, 81-89.	2.1	64
540	On the construction of an inter-subject diffusion tensor magnetic resonance atlas of the healthy human brain. <i>NeuroImage</i> , 2008, 43, 69-80.	2.1	76
541	Human brain white matter atlas: Identification and assignment of common anatomical structures in superficial white matter. <i>NeuroImage</i> , 2008, 43, 447-457.	2.1	486
542	Human brain mapping: Hemodynamic response and electrophysiology. <i>Clinical Neurophysiology</i> , 2008, 119, 731-743.	0.7	161
543	Lowering the Barriers Inherent in Translating Advances in Neuroimage Analysis to Clinical Research Applications. <i>Academic Radiology</i> , 2008, 15, 114-118.	1.3	5
544	MR Tractography Based on Directional Diffusion Function. <i>Academic Radiology</i> , 2008, 15, 186-192.	1.3	7
545	Two-tensor streamline tractography through white matter intra-voxel fiber crossings: Assessed by fMRI. , 2008, , .		1
546	DT-MRI Fiber Tracking: A Shortest Paths Approach. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 1458-1471.	5.4	68
547	A Mathematical Framework for incorporating anatomical knowledge in DT-MRI analysis. , 2008, 4543943, 105-108.		14
548	In-vivo brain anatomical connectivity using diffusion magnetic resonance imaging and fuzzy connectedness. , 2008, , .		2
549	Localized statistics for DW-MRI fiber bundle segmentation. , 2008, , 1-8.		7
550	A ray tracing method for geodesic based tractography in diffusion tensor images. , 2008, , .		2
551	Atlas-guided probabilistic diffusion-tensor fiber tractography. , 2008, , .		5
552	The Human Motor Corpus Callosum. <i>Reviews in the Neurosciences</i> , 2008, 19, 451-66.	1.4	33
553	The Role of the Uncinate Fasciculus in Memory and Emotional Recognition in Amnesic Mild Cognitive Impairment. <i>Dementia and Geriatric Cognitive Disorders</i> , 2008, 26, 432-439.	0.7	115
554	White Matter Fibertracking in First-Episode Schizophrenia, Schizoaffective Patients and Subjects at Ultra-High Risk of Psychosis. <i>Neuropsychobiology</i> , 2008, 58, 19-28.	0.9	103
555	Partial volume effect of cingulum tract in diffusion-tensor MRI. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
556	White Matter Fiber Tracts Based On Diffusion Tensor Imaging. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
557	Motor Neuron Disease and Frontotemporal Lobar Degeneration: A Tale of Two Disorders Linked To TDP-43. <i>NeuroSignals</i> , 2008, 16, 85-90.	0.5	13
558	An Analysis Method of the Fiber Tractography of Corpus Callosum in Autism Based on Diffusion Tensor Imaging Data. , 2008, , .		1
559	Diffusion Magnetic Resonance Imaging in Brain Tumors. , 2008, , 215-238.		1
560	Dissociated Pathways for Successful Memory Retrieval from the Human Parietal Cortex: Anatomical and Functional Connectivity Analyses. <i>Cerebral Cortex</i> , 2008, 18, 1771-1778.	1.6	30
561	Diffusion Tensor MR Imaging and Fiber Tractography: Theoretic Underpinnings. <i>American Journal of Neuroradiology</i> , 2008, 29, 632-641.	1.2	411
562	Advances in Cognitive Neurodynamics ICCN 2007. , 2008, , .		1
563	Multiscale structural analysis of mouse lingual myoarchitecture employing diffusion spectrum magnetic resonance imaging and multiphoton microscopy. <i>Journal of Biomedical Optics</i> , 2008, 13, 064005.	1.4	17
564	Brain Imaging in Nonhuman Primates: Insights into Drug Addiction. <i>ILAR Journal</i> , 2008, 49, 89-102.	1.8	24
565	Identifying the human optic radiation using diffusion imaging and fiber tractography. <i>Journal of Vision</i> , 2008, 8, 12-12.	0.1	138
566	The design of anisotropic diffusion phantoms for the validation of diffusion weighted magnetic resonance imaging. <i>Physics in Medicine and Biology</i> , 2008, 53, 5405-5419.	1.6	60
567	Three-Dimensional High-Resolution Diffusion Tensor Imaging and Tractography of the Developing Rabbit Brain. <i>Developmental Neuroscience</i> , 2008, 30, 262-275.	1.0	34
568	Pathogenesis of Normal-appearing White Matter Damage in Neuromyelitis Optica: Diffusion-Tensor MR Imaging. <i>Radiology</i> , 2008, 246, 222-228.	3.6	84
569	Multi-Dimensional Image Data Viewer with Flexible Extension Capability and its Application in Computer-Based Medical Systems. , 2008, , .		0
570	Random walk model based on DTI for predicting the microscopic spread of gliomas. , 2008, , .		0
571	A global approach to cardiac tractography. , 2008, , .		5
572	Connectivity-based parcellation of the cortical surface using q-ball imaging. , 2008, , .		4
573	High resolution reduced-FOV Diffusion Tensor Imaging of the human pons with multi-shot variable density spiral at 3T. , 2008, 2008, 5761-4.		7
574	On approximation of orientation distributions by means of spherical ridgelets. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
575	A geometric flow-based approach for diffusion tensor image segmentation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2279-2292.	1.6	5
576	Neuropsychological disturbance in schizophrenia: A diffusion tensor imaging study.. Neuropsychology, 2008, 22, 246-254.	1.0	70
577	A Method for Visualization of Brain Neural Pathway Using Critical Points and Target Regions. Journal of Fluid Science and Technology, 2008, 3, 678-689.	0.2	0
578	SURGERY OF INTRAVENTRICULAR TUMORS. Neurosurgery, 2008, 62, SHC1029-SHC1041.	0.6	55
579	Diffusion Tensor Imaging in Psychiatric Disorders. Topics in Magnetic Resonance Imaging, 2008, 19, 97-109.	0.7	161
580	The evaluation of a population based diffusion tensor image atlas using a ground truth method. Proceedings of SPIE, 2008, , .	0.8	0
581	DIFFUSION TENSOR TRACTOGRAPHY. Neurosurgery, 2008, 63, 452-459.	0.6	11
582	Review of Corpus Callosum Topography, Analysis of Diffusion Values for the Different Callosal Fibers and Sex Differences. Neuroradiology Journal, 2008, 21, 745-754.	0.6	1
583	Reconstructing Brain White Matter Pathways with Diffusion Tensor MRI Using Kernel-Based Diffusion Simulations. Journal of Algorithms and Computational Technology, 2008, 2, 501-526.	0.4	0
584	Diffusion Tensor Imaging of the Kidney With Parallel Imaging: Initial Clinical Experience. Investigative Radiology, 2008, 43, 677-685.	3.5	112
585	Diffusion tensor imaging in mild cognitive impairment and Alzheimer's disease: a review. Current Opinion in Neurology, 2008, 21, 83-92.	1.8	251
586	SURGERY OF INTRAVENTRICULAR TUMORS. Neurosurgery, 2008, 62, SHC1029-SHC1041.	0.6	121
587	DESARROLLO Y PUESTA EN MARCHA DE SOFTWARE DE TRACTOGRAFIA. Revista Chilena De Radiologia, 2008, 14, .	0.2	3
588	Effective and Anatomical Connectivity in a Rat Model of Spontaneous Limbic Seizure. , 0, , 45-59.		0
589	Principles of magnetic resonance imaging and spectroscopy. , 2008, , 22-44.		0
590	ConTrack: Finding the most likely pathways between brain regions using diffusion tractography. Journal of Vision, 2008, 8, 15-15.	0.1	88
591	Connectivity-Based Parcellation of the Cortical Mantle Using $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" id="E1"} \rangle \langle \text{mml:mi} \rangle q \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Ball Diffusion Imaging. International Journal of Biomedical Imaging, 2008, 2008, 1-18.	3.0	28
592	Accurate Anisotropic Fast Marching for Diffusion-Based Geodesic Tractography. International Journal of Biomedical Imaging, 2008, 2008, 1-12.	3.0	91

#	ARTICLE	IF	CITATIONS
593	Diffusion tensor imaging in developmental clinical neuroscience. , 0, , 314-325.		0
594	Diffusion Tensor Imaging in Alzheimer's Disease and Mild Cognitive Impairment. Behavioural Neurology, 2009, 21, 39-49.	1.1	192
595	Fundamentals of diffusion MR imaging. , 0, , 44-67.		0
596	Human white matter anatomical information revealed by diffusion tensor imaging and fiber tracking. , 0, , 68-78.		0
597	Neuroanatomical correlates of developmental dyscalculia: combined evidence from morphometry and tractography. Frontiers in Human Neuroscience, 2009, 3, 51.	1.0	167
598	Shape modeling and clustering of white matter fiber tracts using fourier descriptors. , 2009, , .		11
599	A study of human brain structural connectivity based on diffusion tensor imaging in Alzheimer's disease. , 2009, , .		1
600	Visualizing diffusion tensor imaging data with merging ellipsoids. , 2009, , .		7
601	Improved global cardiac tractography with simulated annealing. , 2009, , .		1
602	A Physical basis for multi-fiber reconstruction from DW-MRI data. , 2009, , .		0
603	White Matter Fiber Tract Segmentation Using Nonnegative Matrix Factorization. , 2009, , .		1
604	Resting-State Functional Connectivity Reflects Structural Connectivity in the Default Mode Network. Cerebral Cortex, 2009, 19, 72-78.	1.6	1,915
605	Robust graph-based tracking through crossing fibre configurations. , 2009, , .		1
606	FRACTAL DIMENSION AND LACUNARITY OF TRACTOGRAPHY IMAGES OF THE HUMAN BRAIN. Fractals, 2009, 17, 181-189.	1.8	44
607	DT-MRI White Matter Fiber Tractography with Global Constraints: An Unsupervised Learning Approach. , 2009, , .		0
608	Biomedical Visualization. , 2009, , 211-273.		3
609	Using Diffusion Tensor Imaging and Fiber Tracking to Characterize Diffuse Perinatal White Matter Injury: A Case Report. Journal of Child Neurology, 2009, 24, 795-800.	0.7	15
610	Isosurface-Based Generation of Hulls Encompassing Neuronal Pathways. Stereotactic and Functional Neurosurgery, 2009, 87, 50-60.	0.8	17

#	ARTICLE	IF	CITATIONS
611	Identification of the Pyramidal Tract by Neuronavigation Based on Intraoperative Diffusion-Weighted Imaging Combined with Subcortical Stimulation. <i>Stereotactic and Functional Neurosurgery</i> , 2009, 87, 18-24.	0.8	36
612	Diffusion Abnormalities in the Primary Sensorimotor Pathways in Writer's Cramp. <i>Archives of Neurology</i> , 2009, 66, 502-8.	4.9	85
613	Quantitative and visual analysis of white matter integrity using diffusion tensor imaging. , 2009, , .		0
614	Temporal and Spatial Development of Axonal Maturation and Myelination of White Matter in the Developing Brain. <i>American Journal of Neuroradiology</i> , 2009, 30, 290-296.	1.2	259
615	Semiautomatic tractography: motor pathway segmentation in patients with intracranial vascular malformations. <i>Journal of Neurosurgery</i> , 2009, 111, 132-140.	0.9	12
616	A Voxel-Based Diffusion Tensor Imaging Study of White Matter in Bipolar Disorder. <i>Neuropsychopharmacology</i> , 2009, 34, 1590-1600.	2.8	95
617	Monte Carlo-based diffusion tensor tractography with a geometrically corrected voxel-centre connecting method. <i>Physics in Medicine and Biology</i> , 2009, 54, 1009-1033.	1.6	12
618	Evaluation of Bayesian tensor estimation using tensor coherence. <i>Physics in Medicine and Biology</i> , 2009, 54, 3785-3802.	1.6	2
619	Fiber Tracking with Distinct Software Tools Results in a Clear Diversity in Anatomical Fiber Tract Portrayal. <i>Central European Neurosurgery</i> , 2009, 70, 27-35.	0.7	93
620	Understanding Development and Lateralization of Major Cerebral Fiber Bundles in Pediatric Population Through Quantitative Diffusion Tensor Tractography. <i>Pediatric Research</i> , 2009, 66, 636-641.	1.1	39
621	Mapping of Functional Areas in the Human Cortex Based on Connectivity through Association Fibers. <i>Cerebral Cortex</i> , 2009, 19, 1889-1895.	1.6	53
622	Frontoparietal white matter diffusion properties predict mental arithmetic skills in children. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22546-22551.	3.3	97
623	Tone Deafness: A New Disconnection Syndrome?. <i>Journal of Neuroscience</i> , 2009, 29, 10215-10220.	1.7	256
624	Anatomical Changes in Human Motor Cortex and Motor Pathways following Complete Thoracic Spinal Cord Injury. <i>Cerebral Cortex</i> , 2009, 19, 224-232.	1.6	216
625	White matter tracts associated with set-shifting in healthy aging. <i>Neuropsychologia</i> , 2009, 47, 2835-2842.	0.7	87
626	Perisylvian white matter connectivity in the human right hemisphere. <i>BMC Neuroscience</i> , 2009, 10, 15.	0.8	37
627	A Diffusion Tensor Imaging Tractography Algorithm Based on Navier-Stokes Fluid Mechanics. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 348-360.	5.4	27
628	Deterministic and Probabilistic Tractography Based on Complex Fibre Orientation Distributions. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 269-286.	5.4	593

#	ARTICLE	IF	CITATIONS
629	Unified Bundling and Registration of Brain White Matter Fibers. IEEE Transactions on Medical Imaging, 2009, 28, 1399-1411.	5.4	10
630	Temporal Lobe Epilepsy: Anatomical and Effective Connectivity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 214-223.	2.7	24
631	Visual computing for medical diagnosis and treatment. Computers and Graphics, 2009, 33, 554-565.	1.4	14
632	Automated white matter tractography using a probabilistic diffusion tensor atlas: Application to temporal lobe epilepsy. Human Brain Mapping, 2009, 30, 1535-1547.	1.9	217
633	Functionally linked resting state networks reflect the underlying structural connectivity architecture of the human brain. Human Brain Mapping, 2009, 30, 3127-3141.	1.9	907
634	Probabilistic topography of human corpus callosum using cytoarchitectural parcellation and high angular resolution diffusion imaging tractography. Human Brain Mapping, 2009, 30, 3172-3187.	1.9	161
635	Voxelwise and skeleton-based region of interest analysis of fetal alcohol syndrome and fetal alcohol spectrum disorders in young adults. Human Brain Mapping, 2009, 30, 3265-3274.	1.9	67
636	Lateralization of the arcuate fasciculus from childhood to adulthood and its relation to cognitive abilities in children. Human Brain Mapping, 2009, 30, 3563-3573.	1.9	239
637	Construction of a stereotaxic DTI atlas with full diffusion tensor information for studying white matter maturation from childhood to adolescence using tractography-based segmentations. Human Brain Mapping, 2010, 31, 470-486.	1.9	81
638	Specific somatotopic organization of functional connections of the primary motor network during resting state. Human Brain Mapping, 2010, 31, 631-644.	1.9	67
639	Brain-behavior relationships in young traumatic brain injury patients: DTI metrics are highly correlated with postural control. Human Brain Mapping, 2010, 31, 992-1002.	1.9	87
640	Diffusion tensor imaging of the median nerve in healthy and carpal tunnel syndrome subjects. Journal of Magnetic Resonance Imaging, 2009, 29, 657-662.	1.9	89
641	MRI diffusion tensor tracking of a new amygdala-fusiform and hippocampo-fusiform pathway system in humans. Journal of Magnetic Resonance Imaging, 2009, 29, 1248-1261.	1.9	36
642	Potential in reducing scan times of HARDI by accurate correction of the cross-term in a hemispherical encoding scheme. Journal of Magnetic Resonance Imaging, 2009, 29, 1386-1394.	1.9	8
643	A diffusion tensor imaging group study of the spinal cord in multiple sclerosis patients with and without T ₂ spinal cord lesions. Journal of Magnetic Resonance Imaging, 2009, 30, 25-34.	1.9	57
644	The <i>B</i> -matrix must be rotated when correcting for subject motion in DTI data. Magnetic Resonance in Medicine, 2009, 61, 1336-1349.	1.9	1,204
645	Theory of Q-ball imaging redux: Implications for fiber tracking. Magnetic Resonance in Medicine, 2009, 62, 910-923.	1.9	37
646	High-resolution diffusion tensor imaging of the human pons with a reduced field-of-view, multishot, variable-density, spiral acquisition at 3 T. Magnetic Resonance in Medicine, 2009, 62, 1007-1016.	1.9	35

#	ARTICLE	IF	CITATIONS
647	A multivariate hypothesis testing framework for tissue clustering and classification of DTI data. <i>NMR in Biomedicine</i> , 2009, 22, 716-729.	1.6	4
648	Shape-Adaptive DCT for Denoising of 3D Scalar and Tensor Valued Images. <i>Journal of Digital Imaging</i> , 2009, 22, 297-308.	1.6	10
649	Compartment shape anisotropy (CSA) revealed by double pulsed field gradient MR. <i>Journal of Magnetic Resonance</i> , 2009, 199, 56-67.	1.2	115
650	Comparison of regularization methods for human cardiac diffusion tensor MRI. <i>Medical Image Analysis</i> , 2009, 13, 405-418.	7.0	32
651	A practical approach to in vivo high-resolution diffusion tensor imaging of rhesus monkeys on a 3-T human scanner. <i>Magnetic Resonance Imaging</i> , 2009, 27, 335-346.	1.0	14
652	Cerebral White Matter Integrity and Cognitive Aging: Contributions from Diffusion Tensor Imaging. <i>Neuropsychology Review</i> , 2009, 19, 415-435.	2.5	383
653	Phenylketonuria: white-matter changes assessed by 3.0-T magnetic resonance (MR) imaging, MR spectroscopy and MR diffusion. <i>Radiologia Medica</i> , 2009, 114, 461-474.	4.7	32
654	Relationship Between White Matter Integrity, Attention, and Memory in Schizophrenia: A Diffusion Tensor Imaging Study. <i>Brain Imaging and Behavior</i> , 2009, 3, 191-201.	1.1	32
655	Evidence for Plasticity in White Matter Tracts of Patients with Chronic Broca's Aphasia Undergoing Intense Intonation-based Speech Therapy. <i>Annals of the New York Academy of Sciences</i> , 2009, 1169, 385-394.	1.8	340
656	Microstructural Corpus Callosum Anomalies in Children With Prenatal Alcohol Exposure: An Extension of Previous Diffusion Tensor Imaging Findings. <i>Alcoholism: Clinical and Experimental Research</i> , 2009, 33, 1825-1835.	1.4	111
657	Probabilistic white matter fiber tracking using particle filtering and von Mises-Fisher sampling. <i>Medical Image Analysis</i> , 2009, 13, 5-18.	7.0	60
658	Efficient and robust computation of PDF features from diffusion MR signal. <i>Medical Image Analysis</i> , 2009, 13, 715-729.	7.0	72
659	On high b diffusion imaging in the human brain: ruminations and experimental insights. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1151-1162.	1.0	82
660	Pre-surgical planning and MR-tractography utility in brain tumour resection. <i>European Radiology</i> , 2009, 19, 2798-2808.	2.3	115
661	New surgical technique reduces the susceptibility artefact at air-tissue interfaces on in vivo cerebral MRI in the Göttingen minipig. <i>Brain Research Bulletin</i> , 2009, 80, 403-407.	1.4	8
662	Pathways to language: fiber tracts in the human brain. <i>Trends in Cognitive Sciences</i> , 2009, 13, 175-181.	4.0	451
663	Functional MRI at the crossroads. <i>International Journal of Psychophysiology</i> , 2009, 73, 3-9.	0.5	34
664	Microstructural Organization of Cerebellar Tracts in Schizophrenia. <i>Biological Psychiatry</i> , 2009, 66, 1067-1069.	0.7	49

#	ARTICLE	IF	CITATIONS
665	Diffusion tractography of the fornix in schizophrenia. Schizophrenia Research, 2009, 107, 39-46.	1.1	86
666	A Review of Tensors and Tensor Signal Processing. Advances in Pattern Recognition, 2009, , 1-32.	0.8	14
667	Mapping Anatomical Connectivity Patterns of Human Cerebral Cortex Using In Vivo Diffusion Tensor Imaging Tractography. Cerebral Cortex, 2009, 19, 524-536.	1.6	979
668	A parallel computing approach for tracking of neuronal fibers. IBM Journal of Research and Development, 2009, 53, 11:1-11:9.	3.2	0
669	Tensors in Image Processing and Computer Vision. Advances in Pattern Recognition, 2009, , .	0.8	43
670	Fiber tracking based on unsupervised learning. , 2009, , .		0
671	Neuroimaging of Pediatric Brain Tumors: From Basic to Advanced Magnetic Resonance Imaging (MRI). Journal of Child Neurology, 2009, 24, 1343-1365.	0.7	102
672	Gaussian Modeling of the Diffusion Signal. , 2009, , 37-54.		7
673	The Biological Basis of Diffusion Anisotropy. , 2009, , 105-126.		94
674	Inferring Microstructural Information of White Matter from Diffusion MRI. , 2009, , 127-146.		7
675	MR Diffusion Tractography. , 2009, , 333-351.		23
676	Validation of Tractography. , 2009, , 353-375.		13
677	The Connectional Anatomy of Language. , 2009, , 403-413.		2
679	A nonparametric Riemannian framework for processing high angular resolution diffusion images (HARDI). , 2009, , .		18
680	3D stochastic completion fields for fiber tractography. , 2009, , .		7
681	Efficient parametric encoding scheme for white matter fiber bundles. , 2009, 2009, 6644-7.		3
682	Fiber tracking using recursive stack data structure. , 2009, , .		0
683	Assessment of Asymmetry in Pyramidal Tract by Using Fiber Tracking. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
684	Fiber tracking of white matter integrity connecting the mediodorsal nucleus of the thalamus and the prefrontal cortex in schizophrenia: A diffusion tensor imaging study. <i>European Psychiatry</i> , 2009, 24, 269-274.	0.1	19
685	Resolving crossings in the corticospinal tract by two-tensor streamline tractography: Method and clinical assessment using fMRI. <i>NeuroImage</i> , 2009, 47, T98-T106.	2.1	95
686	Structural connectivity influences brain activation during PVSAT in Multiple Sclerosis. <i>NeuroImage</i> , 2009, 44, 9-15.	2.1	63
687	Landmark-referenced voxel-based analysis of diffusion tensor images of the brainstem white matter tracts. <i>NeuroImage</i> , 2009, 44, 906-913.	2.1	26
688	A study of diffusion tensor imaging by tissue-specific, smoothing-compensated voxel-based analysis. <i>NeuroImage</i> , 2009, 44, 870-883.	2.1	93
689	A random effects modelling approach to the crossing-fibre problem in tractography. <i>NeuroImage</i> , 2009, 44, 753-768.	2.1	20
690	Group analysis of DTI fiber tract statistics with application to neurodevelopment. <i>NeuroImage</i> , 2009, 45, S133-S142.	2.1	180
691	Prediction of visual field deficits by diffusion tensor imaging in temporal lobe epilepsy surgery. <i>NeuroImage</i> , 2009, 45, 286-297.	2.1	135
692	Reproducibility of tract segmentation between sessions using an unsupervised modelling-based approach. <i>NeuroImage</i> , 2009, 45, 377-385.	2.1	38
693	Tract-based morphometry for white matter group analysis. <i>NeuroImage</i> , 2009, 45, 832-844.	2.1	168
694	Quantitative examination of a novel clustering method using magnetic resonance diffusion tensor tractography. <i>NeuroImage</i> , 2009, 45, 370-376.	2.1	46
695	Active fibers: Matching deformable tract templates to diffusion tensor images. <i>NeuroImage</i> , 2009, 47, T82-T89.	2.1	18
696	Assessing the effects of age on long white matter tracts using diffusion tensor tractography. <i>NeuroImage</i> , 2009, 46, 530-541.	2.1	406
697	On the construction of a ground truth framework for evaluating voxel-based diffusion tensor MRI analysis methods. <i>NeuroImage</i> , 2009, 46, 692-707.	2.1	52
698	Development of a human brain diffusion tensor template. <i>NeuroImage</i> , 2009, 46, 967-980.	2.1	46
699	A software tool to generate simulated white matter structures for the assessment of fibre-tracking algorithms. <i>NeuroImage</i> , 2009, 47, 1288-1300.	2.1	75
700	DTI abnormalities in anterior corpus callosum of rats with spike-wave epilepsy. <i>NeuroImage</i> , 2009, 47, 459-466.	2.1	80
701	Patterns of fractional anisotropy changes in white matter of cerebellar peduncles distinguish spinocerebellar ataxia-1 from multiple system atrophy and other ataxia syndromes. <i>NeuroImage</i> , 2009, 47, T72-T81.	2.1	62

#	ARTICLE	IF	CITATIONS
702	The anatomy of extended limbic pathways in Asperger syndrome: A preliminary diffusion tensor imaging tractography study. <i>NeuroImage</i> , 2009, 47, 427-434.	2.1	161
703	Direct quantitative comparison between cross-relaxation imaging and diffusion tensor imaging of the human brain at 3.0ÅT. <i>NeuroImage</i> , 2009, 47, 1568-1578.	2.1	53
704	Combinatorial fiber-tracking of the human brain. <i>NeuroImage</i> , 2009, 48, 532-540.	2.1	21
705	QSI and DTI of excised brains of the myelin-deficient rat. <i>NeuroImage</i> , 2009, 48, 109-116.	2.1	48
706	Hardware Accelerated Segmentation of Complex Volumetric Filament Networks. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 670-681.	2.9	13
707	A Novel Interface for Interactive Exploration of DTI Fibers. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1433-1440.	2.9	43
708	Exploring 3D DTI Fiber Tracts with Linked 2D Representations. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1449-1456.	2.9	68
709	Parameter Sensitivity Visualization for DTI Fiber Tracking. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1441-1448.	2.9	41
710	Sampling and Visualizing Creases with Scale-Space Particles. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1415-1424.	2.9	60
711	Volume Illustration of Muscle from Diffusion Tensor Images. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1425-1432.	2.9	7
712	Mathematical methods for diffusion MRI processing. <i>NeuroImage</i> , 2009, 45, S111-S122.	2.1	68
713	Brain Connectivity Mapping Using Riemannian Geometry, Control Theory, and PDEs. <i>SIAM Journal on Imaging Sciences</i> , 2009, 2, 285-322.	1.3	27
714	Diffusion Tensor Tractography in the Head-and-Neck Region Using a Clinical 3-T MR Scanner. <i>Academic Radiology</i> , 2009, 16, 858-865.	1.3	20
715	New Methods in Diffusion-Weighted and Diffusion Tensor Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2009, 17, 175-204.	0.6	56
716	Theory of diffusion tensor imaging and fiber tractography analysis. <i>European Journal of Radiography</i> , 2009, 1, 37-41.	0.2	6
717	Advanced MRI: Translation from Animal to Human in Brain Tumor Research. <i>Neuroimaging Clinics of North America</i> , 2009, 19, 517-526.	0.5	7
718	Intraoperative mapping and monitoring of brain functions for the resection of low-grade gliomas: technical considerations. <i>Neurosurgical Focus</i> , 2009, 27, E4.	1.0	74
719	Neurofunctional view of psychiatry: clinical brain imaging revisited. <i>Current Opinion in Psychiatry</i> , 2009, 22, 300-305.	3.1	9

#	ARTICLE	IF	CITATIONS
720	Diffusion-Weighted Imaging in the Detection of Lymph Node Metastasis in Colorectal Cancer. <i>Tohoku Journal of Experimental Medicine</i> , 2009, 218, 177-183.	0.5	50
721	Diffusion-tensor imaging in brain tumors. <i>Imaging in Medicine</i> , 2009, 1, 155-171.	0.0	4
722	Functional imaging of language competent brain areas. , 2009, , 131-154.		0
723	A framework for quantitative and visual analysis of white matter integrity using Diffusion Tensor Imaging. <i>International Journal of Functional Informatics and Personalised Medicine</i> , 2009, 2, 159.	0.4	0
724	Optimized White Matter Fiber Reconstruction with B-Spline Curve and Evolutionary Computation. , 2009, , .		1
727	Diffusion Tensor Imaging: A Review for Pediatric Researchers and Clinicians. <i>Journal of Developmental and Behavioral Pediatrics</i> , 2010, 31, 346-356.	0.6	315
728	An improved Bayesian tensor regularization and sampling algorithm to track neuronal fiber pathways in the language circuit. <i>Medical Physics</i> , 2010, 37, 4274-4287.	1.6	11
729	Diffusion-weighted magnetic resonance imaging for assessment after neoadjuvant chemotherapy in breast cancer, based on morphological concepts. <i>Oncology Letters</i> , 2010, 1, 293-298.	0.8	12
731	Frontal networks play a role in fatigue perception in multiple sclerosis.. <i>Behavioral Neuroscience</i> , 2010, 124, 329-336.	0.6	82
732	Multimodal Navigation in Glioma Surgery. <i>Current Medical Imaging</i> , 2010, 6, 259-265.	0.4	1
733	Tract-specific analysis for investigation of Alzheimer disease: a brief review. <i>Japanese Journal of Radiology</i> , 2010, 28, 494-501.	1.0	8
734	Identification of the pyramidal tract by neuronavigation based on intraoperative magnetic resonance tractography: correlation with subcortical stimulation. <i>European Radiology</i> , 2010, 20, 2475-2481.	2.3	30
735	Impact of fMRI-guided advanced DTI fiber tracking techniques on their clinical applications in patients with brain tumors. <i>Neuroradiology</i> , 2010, 52, 37-46.	1.1	107
736	Correlation of quantitative sensorimotor tractography with clinical grade of cerebral palsy. <i>Neuroradiology</i> , 2010, 52, 759-765.	1.1	62
737	Age-related variations in white matter anisotropy in school-age children. <i>Pediatric Radiology</i> , 2010, 40, 1918-1930.	1.1	19
738	Image guidance and neuromonitoring in neurosurgery. <i>Child's Nervous System</i> , 2010, 26, 491-502.	0.6	29
739	Diffusion simulation-based fiber tracking using time-of-arrival maps: a comparison with standard methods. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010, 23, 391-398.	1.1	3
740	The Correlation of 3D DT-MRI Fiber Disruption with Structural and Mechanical Degeneration in Porcine Myocardium. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3084-3095.	1.3	28

#	ARTICLE	IF	CITATIONS
741	A role of diffusion tensor imaging in movement disorder surgery. <i>Acta Neurochirurgica</i> , 2010, 152, 2089-2095.	0.9	31
742	Diffusion tensor imaging (DTI) and colored fractional anisotropy (FA) mapping of the subthalamic nucleus (STN) and the globus pallidus interna (GPI). <i>Acta Neurochirurgica</i> , 2010, 152, 2079-2084.	0.9	20
743	White matter abnormalities in bipolar disorder: insights from diffusion tensor imaging studies. <i>Journal of Neural Transmission</i> , 2010, 117, 639-654.	1.4	137
744	A voxelized model of direct infusion into the corpus callosum and hippocampus of the rat brain: model development and parameter analysis. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 203-214.	1.6	20
745	Direct visualization of fiber information by coherence. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010, 5, 125-131.	1.7	12
746	Motion-robust diffusion tensor acquisition at routine 3T magnetic resonance imaging. <i>Japanese Journal of Radiology</i> , 2010, 28, 27-33.	1.0	0
747	Basic Principles and Concepts Underlying Recent Advances in Magnetic Resonance Imaging of the Developing Brain. <i>Seminars in Perinatology</i> , 2010, 34, 3-19.	1.1	32
748	Cocustering for Cross-Subject Fiber Tract Analysis Through Diffusion Tensor Imaging. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 514-525.	3.6	1
749	Co-registration of White Matter Tractographies by Adaptive-Mean-Shift and Gaussian Mixture Modeling. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 132-145.	5.4	30
750	Generalized $\{q\}$ -Sampling Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1626-1635.	5.4	760
751	Filtered Multitensor Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1664-1675.	5.4	196
752	Estimation of Diffusion Properties in Crossing Fiber Bundles. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1504-1515.	5.4	43
753	Brain-behavior relationships in young traumatic brain injury patients: Fractional anisotropy measures are highly correlated with dynamic visuomotor tracking performance. <i>Neuropsychologia</i> , 2010, 48, 1472-1482.	0.7	72
754	White matter connectivity and psychosis in ultra-high-risk subjects: A diffusion tensor fiber tracking study. <i>Psychiatry Research - Neuroimaging</i> , 2010, 181, 44-50.	0.9	64
755	Depression severity is correlated to the integrity of white matter fiber tracts in late-onset major depression. <i>Psychiatry Research - Neuroimaging</i> , 2010, 184, 38-48.	0.9	86
756	Saturn: A software application of tensor utilities for research in neuroimaging. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 97, 264-279.	2.6	6
757	Effects of motion and b \hat{e} matrix correction for high resolution DTI with short \hat{e} axis PROPELLER \hat{e} EPI. <i>NMR in Biomedicine</i> , 2010, 23, 794-802.	1.6	18
758	Diffusion imaging of brain tumors. <i>NMR in Biomedicine</i> , 2010, 23, 849-864.	1.6	151

#	ARTICLE	IF	CITATIONS
759	Mapping brain anatomical connectivity using white matter tractography. <i>NMR in Biomedicine</i> , 2010, 23, 821-835.	1.6	110
760	Progress in diffusion-weighted imaging: concepts, techniques and applications to the central nervous system. <i>NMR in Biomedicine</i> , 2010, 23, 659-660.	1.6	9
761	Assessment of white matter tract damage in mild cognitive impairment and Alzheimer's disease. <i>Human Brain Mapping</i> , 2010, 31, 1862-1875.	1.9	119
762	Study of white matter anatomy and 3D tract reconstruction by diffusion tensor imaging. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 51-56.	2.7	5
763	Multiple sclerosis: Hyperintense lesions in the brain on T1-weighted MR images assessed by diffusion tensor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 789-795.	1.9	16
764	Stimulated echo induced misestimates on diffusion tensor indices and its remedy. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 1522-1529.	1.9	2
765	Tensor kernels for simultaneous fiber model estimation and tractography. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 138-148.	1.9	7
766	A graph-based approach for automatic cardiac tractography. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1215-1229.	1.9	22
767	Susceptibility tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1471-1477.	1.9	300
768	Independent component analysis-based multifiber streamline tractography of the human brain. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1676-1684.	1.9	14
769	Multi-component fiber track modelling of diffusion-weighted magnetic resonance imaging data. <i>Journal of Advanced Research</i> , 2010, 1, 39-51.	4.4	0
770	A filtered approach to neural tractography using the Watson directional function. <i>Medical Image Analysis</i> , 2010, 14, 58-69.	7.0	45
771	Novel diffusion tensor imaging methodology to detect and quantify injured regions and affected brain pathways in traumatic brain injury. <i>Magnetic Resonance Imaging</i> , 2010, 28, 22-40.	1.0	84
772	MR connectomics: Principles and challenges. <i>Journal of Neuroscience Methods</i> , 2010, 194, 34-45.	1.3	251
773	Fuzzy anatomical connectedness of the brain using single and multiple fibre orientations estimated from diffusion MRI. <i>Computerized Medical Imaging and Graphics</i> , 2010, 34, 504-513.	3.5	6
774	Integration of Functional MRI and White Matter Tractography in Stereotactic Radiosurgery Clinical Practice. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 257-267.	0.4	58
775	Combined Diffusion Tensor Imaging and Transverse Relaxometry in Early-Onset Bipolar Disorder. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010, 49, 1260-1268.	0.3	3
776	Diffusion tensor imaging findings in preterm and low birth weight populations. , 2010, , 97-112.		1

#	ARTICLE	IF	CITATIONS
777	Human fronto-tectal and fronto-striatal-tectal pathways activate differently during anti-saccades. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 41.	1.0	12
778	Influences of neural pathway integrity on children's response to reading instruction. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 150.	1.2	15
779	Cerebellum Abnormalities in Idiopathic Generalized Epilepsy with Generalized Tonic-Clonic Seizures Revealed by Diffusion Tensor Imaging. <i>PLoS ONE</i> , 2010, 5, e15219.	1.1	48
780	A Diffusion Tensor Imaging Study on the Auditory System and Tinnitus. <i>Open Neuroimaging Journal</i> , 2010, 4, 16-25.	0.2	100
781	Delineating Neural Structures of Developmental Human Brains with Diffusion Tensor Imaging. <i>Scientific World Journal, The</i> , 2010, 10, 135-144.	0.8	10
782	Qualitative and quantitative analysis of probabilistic and deterministic fiber tracking. <i>Proceedings of SPIE</i> , 2010, , .	0.8	6
783	The Evolution of Clinical Functional Imaging during the Past 2 Decades and Its Current Impact on Neurosurgical Planning. <i>American Journal of Neuroradiology</i> , 2010, 31, 219-225.	1.2	96
784	Tract-Based Analysis of Callosal, Projection, and Association Pathways in Pediatric Patients with Multiple Sclerosis: A Preliminary Study. <i>American Journal of Neuroradiology</i> , 2010, 31, 121-128.	1.2	59
785	Structure of the Fetal Brain: What We Are Learning from Diffusion Tensor Imaging. <i>Neuroscientist</i> , 2010, 16, 634-649.	2.6	28
786	Robust ODF smoothing for accurate estimation of fiber orientation. , 2010, 2010, 2698-701.		0
787	Theory and applications of diffusion MRI. , 2010, , .		1
788	Exact and analytic bayesian inference for orientation distribution functions. , 2010, , .		1
789	Intrinsic Functional Connectivity As a Tool For Human Connectomics: Theory, Properties, and Optimization. <i>Journal of Neurophysiology</i> , 2010, 103, 297-321.	0.9	1,667
790	A pointwise correspondence based DT-MRI fiber similarity measure. , 2010, 2010, 2694-7.		1
791	Tractography clustering for fiber selection in ROI-based diffusion tensor studies. , 2010, 2010, 5665-8.		1
792	Medical Imaging and Augmented Reality. <i>Lecture Notes in Computer Science</i> , 2010, , .	1.0	16
793	Sensitivity of MRI resonance frequency to the orientation of brain tissue microstructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5130-5135.	3.3	238
794	Language networks in semantic dementia. <i>Brain</i> , 2010, 133, 286-299.	3.7	220

#	ARTICLE	IF	CITATIONS
795	Assessment of White Matter Tract Damage in Patients with Amyotrophic Lateral Sclerosis: A Diffusion Tensor MR Imaging Tractography Study: Fig 1.. American Journal of Neuroradiology, 2010, 31, 1457-1461.	1.2	131
796	Cost function evaluation for the registration of clinical DTI images onto the ICBM DTI81 white matter atlas. Technology and Health Care, 2010, 18, 145-156.	0.5	2
797	Neuroimaging of hypoxic-ischemic brain injury. NeuroRehabilitation, 2010, 26, 15-25.	0.5	12
798	Real-time fiber selection using the Wii remote. Proceedings of SPIE, 2010, , .	0.8	3
799	Fast Hamilton-Jacobi equation solver and neural fiber bundle extraction. Proceedings of SPIE, 2010, , .	0.8	0
800	DTI white matter fiber tractography using bayesian framework. , 2010, , .		0
801	Determination of Neural Fiber Connections Based on Data Structure Algorithm. Computational Intelligence and Neuroscience, 2010, 2010, 1-6.	1.1	1
802	DTI Parameter Optimisation for Acquisition at 1.5T: SNR Analysis and Clinical Application. Computational Intelligence and Neuroscience, 2010, 2010, 1-8.	1.1	25
803	Intraoperative use of diffusion tensor imaging fiber tractography and subcortical mapping for resection of gliomas: technical considerations. Neurosurgical Focus, 2010, 28, E6.	1.0	137
804	Microstructural connectivity of the arcuate fasciculus in adolescents with high-functioning autism. NeuroImage, 2010, 51, 1117-1125.	2.1	190
805	Improved tractography alignment using combined volumetric and surface registration. NeuroImage, 2010, 51, 206-213.	2.1	64
806	The effect of finite diffusion gradient pulse duration on fibre orientation estimation in diffusion MRI. NeuroImage, 2010, 51, 743-751.	2.1	22
807	Microstructural correlations of white matter tracts in the human brain. NeuroImage, 2010, 51, 531-541.	2.1	102
808	Comparative mouse brain tractography of diffusion magnetic resonance imaging. NeuroImage, 2010, 51, 1027-1036.	2.1	70
809	Development of functional and structural connectivity within the default mode network in young children. NeuroImage, 2010, 52, 290-301.	2.1	455
810	Atlas-guided tract reconstruction for automated and comprehensive examination of the white matter anatomy. NeuroImage, 2010, 52, 1289-1301.	2.1	277
811	General multivariate linear modeling of surface shapes using SurfStat. NeuroImage, 2010, 53, 491-505.	2.1	144
812	Network-based statistic: Identifying differences in brain networks. NeuroImage, 2010, 53, 1197-1207.	2.1	2,098

#	ARTICLE	IF	CITATIONS
813	Deviation of Fiber Tracts in the Vicinity of Brain Lesions: Evaluation by Diffusion Tensor Imaging. Israel Journal of Chemistry, 2010, 43, 155-163.	1.0	4
814	Dealing with Uncertainty in Diffusion Tensor MR Data. Israel Journal of Chemistry, 2010, 43, 129-144.	1.0	11
815	Generalized Diffusion Tensor Imaging (GDTI): A Method for Characterizing and Imaging Diffusion Anisotropy Caused by Non-Gaussian Diffusion. Israel Journal of Chemistry, 2010, 43, 145-154.	1.0	25
816	Combined Diffusion Tensor Imaging and Transverse Relaxometry in Early-Onset Bipolar Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2010, 49, 1260-1268.	0.3	20
817	Quantitative study of fiber tracking results in human cardiac DTI. , 2010, , .		0
818	Challenges and limitations of quantifying brain connectivity <i>in vivo</i> with diffusion MRI. Imaging in Medicine, 2010, 2, 341-355.	0.0	284
819	Tracking the Flow of Water through Photosystem II Using Molecular Dynamics and Streamline Tracing. Biochemistry, 2010, 49, 1873-1881.	1.2	82
820	Brain networks for working memory and factors of intelligence assessed in males and females with fMRI and DTI. Intelligence, 2010, 38, 293-303.	1.6	75
821	Quantitative analysis of glioma cell invasion by diffusion tensor imaging. Journal of Clinical Neuroscience, 2010, 17, 1530-1536.	0.8	47
822	Anatomic dissection of the inferior fronto-occipital fasciculus revisited in the lights of brain stimulation data. Cortex, 2010, 46, 691-699.	1.1	420
823	Diffusion tensor magnetic resonance imaging of glial brain tumors. European Journal of Radiology, 2010, 74, 428-436.	1.2	41
824	In-vivo investigation of the human cingulum bundle using the optimization of MR diffusion spectrum imaging. European Journal of Radiology, 2010, 75, e29-e36.	1.2	30
825	Tractography of peripheral nerves and skeletal muscles. European Journal of Radiology, 2010, 76, 391-397.	1.2	67
826	A combined fMRI and DTI examination of functional language lateralization and arcuate fasciculus structure: Effects of degree versus direction of hand preference. Brain and Cognition, 2010, 73, 85-92.	0.8	100
827	Age-related slowing of task switching is associated with decreased integrity of frontoparietal white matter. Neurobiology of Aging, 2010, 31, 512-522.	1.5	154
828	Cortical Maps and White Matter Tracts following Long Period of Visual Deprivation and Retinal Image Restoration. Neuron, 2010, 65, 21-31.	3.8	140
829	Optimization of in vivo high-resolution DTI of non-human primates on a 3T human scanner. Methods, 2010, 50, 205-213.	1.9	12
830	Diffusion tensor imaging to assess axonal regeneration in peripheral nerves. Experimental Neurology, 2010, 223, 238-244.	2.0	164

#	ARTICLE	IF	CITATIONS
831	Should we consider a new approach? Detecting grain deviation caused by knots within stems. Forestry Studies in China, 2010, 12, 101-105.	0.4	1
832	Development of cerebral fiber pathways in cats revealed by diffusion spectrum imaging. NeuroImage, 2010, 49, 1231-1240.	2.1	68
833	A modified damped Richardsonâ€“Lucy algorithm to reduce isotropic background effects in spherical deconvolution. NeuroImage, 2010, 49, 1446-1458.	2.1	289
834	Brain tractography using Q-ball imaging and graph theory: Improved connectivities through fibre crossings via a model-based approach. NeuroImage, 2010, 49, 2444-2456.	2.1	56
835	Temporal lobe white matter asymmetry and language laterality in epilepsy patients. NeuroImage, 2010, 49, 2033-2044.	2.1	65
836	Local white matter geometry from diffusion tensor gradients. NeuroImage, 2010, 49, 3175-3186.	2.1	21
837	Automated vs. conventional tractography in multiple sclerosis: Variability and correlation with disability. NeuroImage, 2010, 49, 3047-3056.	2.1	43
838	Analysis of the pyramidal tract in tumor patients using diffusion tensor imaging. NeuroImage, 2010, 50, 27-39.	2.1	10
839	Unsupervised white matter fiber clustering and tract probability map generation: Applications of a Gaussian process framework for white matter fibers. NeuroImage, 2010, 51, 228-241.	2.1	138
840	COMT genotype affects prefrontal white matter pathways in children and adolescents. NeuroImage, 2010, 53, 926-934.	2.1	62
841	On Approximation of Orientation Distributions by Means of Spherical Ridgelets. IEEE Transactions on Image Processing, 2010, 19, 461-477.	6.0	68
842	A Software System for Anisotropic Diffusion Analysis of Diffusion Tensor Images. , 2010, , .		0
843	Penalized Functional Regression. Journal of Computational and Graphical Statistics, 2011, 20, 830-851.	0.9	185
845	Diffusion Tractography: Methods, Validation and Applications inÂPatients with Neurosurgical Lesions. Neurosurgery Clinics of North America, 2011, 22, 253-268.	0.8	63
846	High Order Diffusion Tensor Imaging in Human Glioblastoma. Academic Radiology, 2011, 18, 947-954.	1.3	10
847	Overview of Functional Magnetic Resonance Imaging. Neurosurgery Clinics of North America, 2011, 22, 133-139.	0.8	532
848	Estimation of fiber orientation and spin density distribution by diffusion deconvolution. NeuroImage, 2011, 55, 1054-1062.	2.1	135
849	Disrupted Axonal Fiber Connectivity in Schizophrenia. Biological Psychiatry, 2011, 69, 80-89.	0.7	404

#	ARTICLE	IF	CITATIONS
850	Altered Integrity of Perisylvian Language Pathways in Schizophrenia: Relationship to Auditory Hallucinations. <i>Biological Psychiatry</i> , 2011, 70, 1143-1150.	0.7	113
851	The Neural Architecture of the Language Comprehension Network: Converging Evidence from Lesion and Connectivity Analyses. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 1.	1.2	749
852	Resolving axon fiber crossings at clinical κ values: An evaluation study. <i>Medical Physics</i> , 2011, 38, 5239-5253.	1.6	16
853	Digital Processing of Diffusion-Tensor Images of Avascular Tissues. <i>Biological and Medical Physics Series</i> , 2011, , 341-371.	0.3	5
854	Diffusion Magnetic Resonance Imaging in Multiple Sclerosis. <i>Neuroimaging Clinics of North America</i> , 2011, 21, 71-88.	0.5	20
855	Diffusion MR Imaging: Basic Principles. <i>Neuroimaging Clinics of North America</i> , 2011, 21, 1-25.	0.5	30
856	Preoperative Diffusion Tensor Imaging (DTI): contribution to surgical planning and validation by intraoperative electrostimulation. , 2011, , 263-275.		2
857	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. <i>NeuroImage</i> , 2011, 56, 220-234.	2.1	376
858	Partial volume effect as a hidden covariate in DTI analyses. <i>NeuroImage</i> , 2011, 55, 1566-1576.	2.1	308
859	A nonparametric Riemannian framework for processing high angular resolution diffusion images and its applications to ODF-based morphometry. <i>NeuroImage</i> , 2011, 56, 1181-1201.	2.1	44
860	Post-treatment with amphetamine enhances reinnervation of the ipsilateral side cortex in stroke rats. <i>NeuroImage</i> , 2011, 56, 280-289.	2.1	39
861	White matter characterization with diffusional kurtosis imaging. <i>NeuroImage</i> , 2011, 58, 177-188.	2.1	479
862	NTU-90: A high angular resolution brain atlas constructed by q-space diffeomorphic reconstruction. <i>NeuroImage</i> , 2011, 58, 91-99.	2.1	389
863	Brodmann area analysis of white matter anisotropy and age in schizophrenia. <i>Schizophrenia Research</i> , 2011, 130, 57-67.	1.1	28
864	Tractography segmentation using a hierarchical Dirichlet processes mixture model. <i>NeuroImage</i> , 2011, 54, 290-302.	2.1	54
865	Bound pool fractions complement diffusion measures to describe white matter micro and macrostructure. <i>NeuroImage</i> , 2011, 54, 1112-1121.	2.1	133
866	Conserved and variable architecture of human white matter connectivity. <i>NeuroImage</i> , 2011, 54, 1262-1279.	2.1	328
867	Global fiber reconstruction becomes practical. <i>NeuroImage</i> , 2011, 54, 955-962.	2.1	277

#	ARTICLE	IF	CITATIONS
868	Atlas-based fiber bundle segmentation using principal diffusion directions and spherical harmonic coefficients. <i>NeuroImage</i> , 2011, 54, S146-S164.	2.1	20
869	Heuristics for connectivity-based brain parcellation of SMA/pre-SMA through force-directed graph layout. <i>NeuroImage</i> , 2011, 54, 2176-2184.	2.1	17
870	Registration, atlas estimation and variability analysis of white matter fiber bundles modeled as currents. <i>NeuroImage</i> , 2011, 55, 1073-1090.	2.1	84
871	Diffusion Imaging, White Matter, and Psychopathology. <i>Annual Review of Clinical Psychology</i> , 2011, 7, 63-85.	6.3	281
872	CUDA-Accelerated Geodesic Ray-Tracing for Fiber Tracking. <i>International Journal of Biomedical Imaging</i> , 2011, 2011, 1-12.	3.0	14
873	Brain Imaging in Behavioral Medicine and Clinical Neuroscience. , 2011, , .		7
875	Neurodevelopment of the visual system in typically developing children. <i>Progress in Brain Research</i> , 2011, 189, 113-136.	0.9	37
876	An Introduction to Diffusion Tensor Image Analysis. <i>Neurosurgery Clinics of North America</i> , 2011, 22, 185-196.	0.8	327
879	Computational Vision and Medical Image Processing. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011, , .	0.1	10
880	Medical Image Processing. <i>Biological and Medical Physics Series</i> , 2011, , .	0.3	44
881	Brain Mapping. , 2011, , .		46
882	Advanced MRI in Multiple Sclerosis: Current Status and Future Challenges. <i>Neurologic Clinics</i> , 2011, 29, 357-380.	0.8	31
884	Probing brain connectivity by combined analysis of diffusion MRI tractography and electrocorticography. <i>Computers in Biology and Medicine</i> , 2011, 41, 1092-1099.	3.9	20
885	Anatomic and electro-physiologic connectivity of the language system: A combined DTI-CCEP study. <i>Computers in Biology and Medicine</i> , 2011, 41, 1100-1109.	3.9	83
886	Quantitative diffusion tensor deterministic and probabilistic fiber tractography in relapsingâ€“remitting multiple sclerosis. <i>European Journal of Radiology</i> , 2011, 79, 101-107.	1.2	18
887	Diffusion tensor imaging with cerebrospinal fluid suppression and signal-to-noise preservation using acquisition combining fluid-attenuated inversion recovery and conventional imaging: Comparison of fiber tracking. <i>European Journal of Radiology</i> , 2011, 79, 113-117.	1.2	13
888	Effects of Practice and Experience on the Arcuate Fasciculus: Comparing Singers, Instrumentalists, and Non-Musicians. <i>Frontiers in Psychology</i> , 2011, 2, 156.	1.1	220
890	Altered white matter microstructural integrity revealed by voxel-wise analysis of diffusion tensor imaging in welders with manganese exposure. <i>NeuroToxicology</i> , 2011, 32, 100-109.	1.4	48

#	ARTICLE	IF	CITATIONS
891	Basis for the Application of Analytical Models of the Bloch NMR Flow Equations for Functional Magnetic Resonance Imaging (fMRI): A Review. <i>Recent Patents on Medical Imaging</i> , 2011, 1, 33-67.	0.1	2
892	Remyelination in Multiple Sclerosis. , 2011, , 193-223.		1
893	A Lateralized Brain Network for Visuo-Spatial Attention. <i>Nature Precedings</i> , 2011, , .	0.1	32
894	Tractografia: definição e aplicação na ressecção de tumores cerebrais. <i>Brazilian Neurosurgery</i> , 2011, 30, 30-33.	0.0	1
896	Diffusion imaging in multiple sclerosis. , 2011, , 186-197.		1
897	Prediction of motor function by diffusion tensor tractography in patients with basal ganglion haemorrhage. <i>Archives of Medical Science</i> , 2011, 2, 310-314.	0.4	14
898	Imaging the Alzheimer Brain. <i>Journal of Alzheimer's Disease</i> , 2011, 26, 1-27.	1.2	41
899	Management of Brain Tumors in Eloquent Areas. , 2011, , .		1
900	Multiple Diffusion Indices Reveals White Matter Degeneration in Alzheimer's Disease and Mild Cognitive Impairment: A Tract-Based Spatial Statistics Study. <i>Journal of Alzheimer's Disease</i> , 2011, 26, 275-285.	1.2	49
901	Intraoperative High-Field Magnetic Resonance Imaging Combined With Fiber Tract Neuronavigation-Guided Resection of Cerebral Lesions Involving Optic Radiation. <i>Neurosurgery</i> , 2011, 69, 1070-1084.	0.6	49
902	Automated probabilistic reconstruction of white-matter pathways in health and disease using an atlas of the underlying anatomy. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 23.	1.3	488
903	Diffusion Tensor Imaging and Colored Fractional Anisotropy Mapping of the Ventralis Intermedius Nucleus of the Thalamus. <i>Neurosurgery</i> , 2011, 69, 1124-1130.	0.6	44
904	Intraoperative Real-Time Querying of White Matter Tracts During Frameless Stereotactic Neuronavigation. <i>Neurosurgery</i> , 2011, 68, 506-516.	0.6	40
905	Pre- and Intraoperative Tractographic Evaluation of Corticospinal Tract Shift. <i>Neurosurgery</i> , 2011, 69, 696-705.	0.6	45
906	Interactive Diffusion Tensor Tractography Visualization for Neurosurgical Planning. <i>Neurosurgery</i> , 2011, 68, 496-505.	0.6	95
907	Picture-perfect: imaging techniques in juvenile idiopathic arthritis. <i>Imaging in Medicine</i> , 2011, 3, 635-651.	0.0	3
908	Nonlinear tube-fitting for the analysis of anatomical and functional structures. <i>Annals of Applied Statistics</i> , 2011, 5, 337-363.	0.5	11
909	Functional regression via variational Bayes. <i>Electronic Journal of Statistics</i> , 2011, 5, 572-602.	0.4	29

#	ARTICLE	IF	CITATIONS
910	In Vivo Mapping of Microstructural Somatotopies in the Human Corticospinal Pathways. Journal of Neurophysiology, 2011, 105, 336-346.	0.9	62
911	Human Brain Functional MRI and DTI Visualization With Virtual Reality. , 2011, , .		10
912	Cortexâ€sparing fiber dissection: an improved method for the study of white matter anatomy in the human brain. Journal of Anatomy, 2011, 219, 531-541.	0.9	134
913	Brain Aging, Cognition in Youth and Old Age and Vascular Disease in the Lothian Birth Cohort 1936: Rationale, Design and Methodology of the Imaging Protocol. International Journal of Stroke, 2011, 6, 547-559.	2.9	188
914	The neurobiological basis of seeing words. Annals of the New York Academy of Sciences, 2011, 1224, 63-80.	1.8	81
915	Fetal Alcohol Spectrum Disorders: Gene-Environment Interactions, Predictive Biomarkers, and the Relationship Between Structural Alterations in the Brain and Functional Outcomes. Seminars in Pediatric Neurology, 2011, 18, 49-55.	1.0	50
916	Self-encoded marker for optical prospective head motion correction in MRI. Medical Image Analysis, 2011, 15, 708-719.	7.0	50
917	Principal eigenvector field segmentation for reproducible diffusion tensor tractography of white matter structures. Magnetic Resonance Imaging, 2011, 29, 1088-1100.	1.0	15
918	Fiber Continuity: An Anisotropic Prior for ODF Estimation. IEEE Transactions on Medical Imaging, 2011, 30, 1274-1283.	5.4	50
919	Abnormal frontal cortex white matter connections in bipolar disorder: A DTI tractography study. Journal of Affective Disorders, 2011, 131, 299-306.	2.0	103
920	Diffusion Tensor Imaging. Methods in Molecular Biology, 2011, 711, 127-144.	0.4	197
921	Distance-based tractography in high angular resolution diffusion MRI. Visual Computer, 2011, 27, 729-738.	2.5	6
922	Diffusionâ€sweighted Magnetic Resonance Imaging for Detecting Lymph Node Metastasis of Rectal Cancer. World Journal of Surgery, 2011, 35, 895-899.	0.8	96
923	Temporal lobe association fiber tractography as compared to histology and dissection. Surgical and Radiologic Anatomy, 2011, 33, 713-722.	0.6	25
924	Subtraction of unidirectionally encoded images for suppression of heavily isotropic objects (SUSHI) for selective visualization of peripheral nerves. Neuroradiology, 2011, 53, 109-116.	1.1	22
925	Diffusion tensor imaging evaluation of white matter in adolescents with myelomeningocele and Chiari II malformation. Pediatric Radiology, 2011, 41, 1407-1415.	1.1	16
926	A Hough transform global probabilistic approach to multiple-subject diffusion MRI tractography. Medical Image Analysis, 2011, 15, 414-425.	7.0	126
927	Recent advances in diffusion MRI modeling: Angular and radial reconstruction. Medical Image Analysis, 2011, 15, 369-396.	7.0	94

#	ARTICLE	IF	CITATIONS
928	Geometric analysis of the b-dependent effects of Rician signal noise on diffusion tensor imaging estimates and determining an optimal b value. <i>Magnetic Resonance Imaging</i> , 2011, 29, 777-788.	1.0	12
929	Plasticity of the Superior and Middle Cerebellar Peduncles in Musicians Revealed by Quantitative Analysis of Volume and Number of Streamlines Based on Diffusion Tensor Tractography. <i>Cerebellum</i> , 2011, 10, 611-623.	1.4	35
930	Het verbonden brein. <i>Neuropraxis</i> , 2011, 15, 3-14.	0.1	1
931	Developmental malformation of the corpus callosum: a review of typical callosal development and examples of developmental disorders with callosal involvement. <i>Journal of Neurodevelopmental Disorders</i> , 2011, 3, 3-27.	1.5	190
932	Artifact quantification and tractography from 3T MRI after placement of aneurysm clips in subarachnoid hemorrhage patients. <i>BMC Medical Imaging</i> , 2011, 11, 19.	1.4	14
933	Early detection of secondary damage in ipsilateral thalamus after acute infarction at unilateral corona radiata by diffusion tensor imaging and magnetic resonance spectroscopy. <i>BMC Neurology</i> , 2011, 11, 49.	0.8	33
934	A full bi-tensor neural tractography algorithm using the unscented Kalman filter. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011, 2011, .	1.0	9
935	Hemispheric asymmetry: contributions from brain imaging. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2011, 2, 461-478.	1.4	40
936	Signal to noise ratio and uncertainty in diffusion tensor imaging at 1.5, 3.0, and 7.0 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1456-1463.	1.9	114
937	Quantitative and reproducibility study of four tractography algorithms used in clinical routine. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 165-172.	1.9	30
938	Novel spherical phantoms for Q-ball imaging under in vivo conditions. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 190-194.	1.9	38
939	Diffusion tensor imaging and beyond. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1532-1556.	1.9	771
940	MRI evaluation of axonal reorganization after bone marrow stromal cell treatment of traumatic brain injury. <i>NMR in Biomedicine</i> , 2011, 24, 1119-1128.	1.6	55
941	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <i>Human Brain Mapping</i> , 2011, 32, 461-479.	1.9	335
942	Diffusion tensor imaging and white matter lesions at the subacute stage in mild traumatic brain injury with persistent neurobehavioral impairment. <i>Human Brain Mapping</i> , 2011, 32, 999-1011.	1.9	189
943	Lateralization of the arcuate fasciculus and its differential correlation with reading ability between young learners and experienced readers: A diffusion tensor tractography study in a chinese cohort. <i>Human Brain Mapping</i> , 2011, 32, 2054-2063.	1.9	29
944	Mathematical concept of the Bloch flow equations for general magnetic resonance imaging: A review. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2011, 38A, 85-101.	0.2	15
945	Fractional anisotropy-weighted front evolution algorithm for white matter tractography based on diffusion tensor imaging data. <i>International Journal of Imaging Systems and Technology</i> , 2011, 21, 307-314.	2.7	0

#	ARTICLE	IF	CITATIONS
946	Moderating registration misalignment in voxelwise comparisons of DTI data: a performance evaluation of skeleton projection. <i>Magnetic Resonance Imaging</i> , 2011, 29, 111-125.	1.0	83
947	A framework on surface-based connectivity quantification for the human brain. <i>Journal of Neuroscience Methods</i> , 2011, 197, 324-332.	1.3	6
948	Extracting skeletal muscle fiber fields from noisy diffusion tensor data. <i>Medical Image Analysis</i> , 2011, 15, 340-353.	7.0	41
949	Diffusion-tensor MRI-based skeletal muscle fiber tracking. <i>Imaging in Medicine</i> , 2011, 3, 675-687.	0.0	40
950	Principles and Limitations of Computational Algorithms in Clinical Diffusion Tensor MR Tractography. <i>American Journal of Neuroradiology</i> , 2011, 32, 3-13.	1.2	102
951	Extremely efficient and deterministic approach to generating optimal ordering of diffusion MRI measurements. <i>Medical Physics</i> , 2011, 38, 4795-4801.	1.6	8
952	Anatomical Properties of the Arcuate Fasciculus Predict Phonological and Reading Skills in Children. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3304-3317.	1.1	284
953	Ganglioglioma of the Right Lateral Ventricle Approached with Neuronavigation and Intraoperative DTI. Case Report and Literature Review.. <i>Zentralblatt Fur Neurochirurgie</i> , 2011, 72, 196-200.	0.5	7
954	Tractography: Where Do We Go from Here?. <i>Brain Connectivity</i> , 2011, 1, 169-183.	0.8	542
955	Frontotemporal Connections in Episodic Memory and Aging: A Diffusion MRI Tractography Study. <i>Journal of Neuroscience</i> , 2011, 31, 13236-13245.	1.7	205
956	Fetal Magnetic Resonance Imaging at 3.0 T. <i>Topics in Magnetic Resonance Imaging</i> , 2011, 22, 119-131.	0.7	27
957	Diffusion Tensor Tractography Reveals Disrupted Topological Efficiency in White Matter Structural Networks in Multiple Sclerosis. <i>Cerebral Cortex</i> , 2011, 21, 2565-2577.	1.6	297
958	Dynamic Reconfiguration of Structural and Functional Connectivity Across Core Neurocognitive Brain Networks with Development. <i>Journal of Neuroscience</i> , 2011, 31, 18578-18589.	1.7	449
959	Developing Neocortex Organization and Connectivity in Cats Revealed by Direct Correlation of Diffusion Tractography and Histology. <i>Cerebral Cortex</i> , 2011, 21, 200-211.	1.6	68
960	Brain Hemispheric Structural Efficiency and Interconnectivity Rightward Asymmetry in Human and Nonhuman Primates. <i>Cerebral Cortex</i> , 2011, 21, 56-67.	1.6	171
961	Fourier analysis in magnetic induction tomography: mapping of anisotropic, inhomogeneous resistivity. <i>Measurement Science and Technology</i> , 2011, 22, 085802.	1.4	5
962	Biomechanics of the Brain. <i>Biological and Medical Physics Series</i> , 2011, , .	0.3	35
963	Resolving complex fibre configurations using two-tensor random-walk stochastic algorithms. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
964	Study and preliminary application of an improved fiber tracking algorithm in central nervous system. , 2011, , .		0
965	Does Diffusion Tensor Imaging-Based Tractography at 3 Months of Age Contribute to the Prediction of Motor Outcome After Perinatal Arterial Ischemic Stroke?. Stroke, 2011, 42, 3410-3414.	1.0	54
966	An interactive ROI tool for DTI fiber tracking. Proceedings of SPIE, 2011, , .	0.8	1
967	Enhanced Cortical Connectivity in Absolute Pitch Musicians: A Model for Local Hyperconnectivity. Journal of Cognitive Neuroscience, 2011, 23, 1015-1026.	1.1	116
968	Improved visualization of fiber tracts in whole brain using illuminated line rendering. , 2011, , .		0
969	Fiber tractography and tract segmentation in multiple sclerosis lesions. , 2011, , .		2
970	MRI Diffusion Indices Sampled Along Streamline Trajectories: Quantitative Tractography Mapping. Brain Connectivity, 2011, 1, 331-338.	0.8	11
971	Structural and Functional Network Connectivity Breakdown in Alzheimer's Disease Studied with Magnetic Resonance Imaging Techniques. Journal of Alzheimer's Disease, 2011, 24, 455-474.	1.2	82
972	Characterization of Cerebral White Matter Properties Using Quantitative Magnetic Resonance Imaging Stains. Brain Connectivity, 2011, 1, 423-446.	0.8	387
973	Occupational Solvent Exposure and Brain Function: An fMRI Study. Environmental Health Perspectives, 2011, 119, 908-913.	2.8	27
974	Differential corticospinal tract degeneration in homozygous 'D90A' SOD-1 ALS and sporadic ALS. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 843-849.	0.9	43
975	The Brain Structural Hub of Interhemispheric Information Integration for Visual Motion Perception. Cerebral Cortex, 2012, 22, 337-344.	1.6	20
976	Microstructural organizational patterns in the human corticostriatal system. Journal of Neurophysiology, 2012, 107, 2984-2995.	0.9	81
977	Cortical Network for Gaze Control in Humans Revealed Using Multimodal MRI. Cerebral Cortex, 2012, 22, 765-775.	1.6	44
978	Diffusion tensor imaging studies of mild traumatic brain injury: a meta-analysis. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, 870-876.	0.9	192
980	Diderot. , 2012, , .		38
981	Correlation between language function and the left arcuate fasciculus detected by diffusion tensor imaging tractography after brain tumor surgery. Journal of Neurosurgery, 2012, 117, 839-843.	0.9	27
982	Accelerating Fibre Orientation Estimation from Diffusion Weighted Magnetic Resonance Imaging Using GPUs. , 2012, , .		51

#	ARTICLE	IF	CITATIONS
984	Interpolation of orientation distribution functions (ODFs) in Q-ball imaging. , 2012, , .		0
985	Magnetic resonance diffusion tensor tractography by searching for minimum curvature deviation near fiber crossing area. , 2012, , .		0
986	COMPLEXITY MEASURES AND NOISE EFFECTS ON DIFFUSION MAGNETIC RESONANCE IMAGING OF THE NEURON AXONS NETWORK IN THE HUMAN BRAIN. Fluctuation and Noise Letters, 2012, 11, 1250032.	1.0	17
987	Frontostriatal White Matter Integrity Mediates Adult Age Differences in Probabilistic Reward Learning: Figure 1.. Journal of Neuroscience, 2012, 32, 5333-5337.	1.7	106
988	Comparisons of fiber clustering algorithms for DTI images. , 2012, , .		0
989	The Diffusion Tensor Imaging Toolbox. Journal of Neuroscience, 2012, 32, 7418-7428.	1.7	29
990	Fundamental Differences in Callosal Structure, Neurophysiologic Function, and Bimanual Control in Young and Older Adults. Cerebral Cortex, 2012, 22, 2643-2652.	1.6	101
991	White Matter Predictors of Cognitive Functioning in Older Adults. Journal of the International Neuropsychological Society, 2012, 18, 414-427.	1.2	46
992	Structural human brain networks. Current Opinion in Neurology, 2012, 25, 1.	1.8	108
993	Neuroanatomic Connectivity of the Human Ascending Arousal System Critical to Consciousness and Its Disorders. Journal of Neuropathology and Experimental Neurology, 2012, 71, 531-546.	0.9	353
994	Degeneracy-aware interpolation of 3D diffusion tensor fields. Proceedings of SPIE, 2012, , .	0.8	2
995	Elevated Plasma MCP-1 Concentration Following Traumatic Brain Injury as a Potential "Predisposition" Factor Associated with an Increased Risk for Subsequent Development of Alzheimer's Disease. Journal of Alzheimer's Disease, 2012, 31, 301-313.	1.2	36
996	Magnetic Resonance Diffusion Tensor Imaging in Patients With Cervical Spondylotic Spinal Cord Compression. Spine, 2012, 37, 48-56.	1.0	94
997	Visual Pathway Study Using In Vivo Diffusion Tensor Imaging Tractography to Complement Classic Anatomy. Operative Neurosurgery, 2012, 70, ons145-ons156.	0.4	32
998	High-Definition Fiber Tractography of the Human Brain. Neurosurgery, 2012, 71, 430-453.	0.6	213
999	Accuracy of Diffusion Tensor Magnetic Resonance Imaging-Based Tractography for Surgery of Gliomas Near the Pyramidal Tract. Neurosurgery, 2012, 70, 283-294.	0.6	128
1000	Localization of Primary Language Areas by Arcuate Fascicle Fiber Tracking. Neurosurgery, 2012, 70, 56-65.	0.6	27
1001	Mapping the Human Connectome. Neurosurgery, 2012, 71, 1-5.	0.6	187

#	ARTICLE	IF	CITATIONS
1002	Connectivity-based structural and functional parcellation of the human cortex using diffusion imaging and tractography. <i>Frontiers in Neuroanatomy</i> , 2012, 6, 34.	0.9	67
1003	Diderot. <i>ACM SIGPLAN Notices</i> , 2012, 47, 111-120.	0.2	9
1004	About the Geometry of Asymmetric Fiber Orientation Distributions. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1240-1249.	5.4	30
1005	3D fiber tractography with susceptibility tensor imaging. <i>NeuroImage</i> , 2012, 59, 1290-1298.	2.1	82
1007	Diffusion Tensor Imaging of Vascular Parkinsonism. <i>Archives of Neurology</i> , 2012, 69, 1340.	4.9	41
1008	Probabilistic Brain Fiber Tractography on GPUs. , 2012, , .		6
1009	Intrinsic Feature Extraction on Hippocampal Surfaces and Its Applications. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 746-768.	1.3	5
1010	Beyond the arcuate fasciculus: consensus and controversy in the connectonal anatomy of language. <i>Brain</i> , 2012, 135, 3529-3550.	3.7	415
1011	SMT: A Reliability Based Interactive DTI Tractography Algorithm. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1929-1940.	5.4	7
1012	Toward whole-brain maps of neural connections: Logical framework and fast implementation. , 2012, , .		0
1013	Diffusion Tensor Imaging and Neuromodulation. <i>International Review of Neurobiology</i> , 2012, 107, 207-234.	0.9	59
1014	Novel Imaging Strategies for Assessment of Cerebrovascular Involvement. <i>Mount Sinai Journal of Medicine</i> , 2012, 79, 674-682.	1.9	0
1015	Fronto-limbic microstructure and structural connectivity in remission from major depression. <i>Psychiatry Research - Neuroimaging</i> , 2012, 204, 40-48.	0.9	41
1016	Brain connectivity and postural control in young traumatic brain injury patients: A diffusion MRI based network analysis. <i>NeuroImage: Clinical</i> , 2012, 1, 106-115.	1.4	84
1017	A Similarity Model and Segmentation Algorithm for White Matter Fiber Tracts. , 2012, , .		14
1019	A novel intrinsic unscented Kalman filter for tractography from HARDI. , 2012, 2012, 534-537.		3
1020	Multi-region competitive tractography via graph-based random walks. , 2012, , .		1
1021	A fiber tracking method guided by volumetric tract segmentation. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
1022	Effects of Stereo and Screen Size on the Legibility of Three-Dimensional Streamtube Visualization. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2130-2139.	2.9	29
1023	A Bayesian approach to inferring fiber tract bundle labels in Diffusion Tensor Imaging. , 2012, , .		0
1024	Correlation between uncinate fasciculus and memory tasks in healthy individual using diffusion tensor tractography. , 2012, 2012, 424-7.		9
1025	An implementation of the EM algorithm in white matter fiber tract clustering. , 2012, , .		0
1026	Volume visualization in serial electron microscopy using local variance. , 2012, , .		1
1027	Topologically Convergent and Divergent Structural Connectivity Patterns between Patients with Remitted Geriatric Depression and Amnesic Mild Cognitive Impairment. Journal of Neuroscience, 2012, 32, 4307-4318.	1.7	282
1028	Speaking of Which: Dissecting the Neurocognitive Network of Language Production in Picture Naming. Cerebral Cortex, 2012, 22, 701-709.	1.6	88
1029	A neighborhood-based probabilistic approach for fiber tracking in human cardiac DTI. , 2012, , .		3
1030	Differential relationships between transcallosal structural and functional connectivity in young and older adults. Neurobiology of Aging, 2012, 33, 2521-2526.	1.5	46
1031	Ventral and dorsal visual streams in posterior cortical atrophy: A DT MRI study. Neurobiology of Aging, 2012, 33, 2572-2584.	1.5	66
1032	Diffusion Tensor Magnetic Resonance Tractography of the Prostate: Feasibility for Mapping Periprostatic Fibers. Urology, 2012, 80, 219-223.	0.5	34
1033	Development of white matter and reading skills. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3045-53.	3.3	288
1034	Comment on "The Geometric Structure of the Brain Fiber Pathways". Science, 2012, 337, 1605-1605.	6.0	58
1035	Fronto-striatal circuitry and inhibitory control in autism: Findings from diffusion tensor imaging tractography. Cortex, 2012, 48, 183-193.	1.1	208
1036	Bilateral neglect after bihemispheric strokes. Cortex, 2012, 48, 504-508.	1.1	6
1037	Monkey to human comparative anatomy of the frontal lobe association tracts. Cortex, 2012, 48, 82-96.	1.1	546
1038	Aphasia induced by gliomas growing in the ventrolateral frontal region: Assessment with diffusion MR tractography, functional MR imaging and neuropsychology. Cortex, 2012, 48, 255-272.	1.1	84
1039	Fractality in the neuron axonal topography of the human brain based on 3-D diffusion MRI. European Physical Journal B, 2012, 85, 1.	0.6	34

#	ARTICLE	IF	CITATIONS
1041	Diffusion-weighted MRI in neuro-oncology. <i>CNS Oncology</i> , 2012, 1, 155-167.	1.2	12
1042	Beyond cortical localization in clinico-anatomical correlation. <i>Cortex</i> , 2012, 48, 1262-1287.	1.1	215
1043	Changes of axial and radial diffusivities in cerebral white matter led by normal aging. <i>Diagnostic and Interventional Imaging</i> , 2012, 93, 47-52.	1.8	10
1044	Magnetic resonance fiber density mapping of age-related white matter changes. <i>European Journal of Radiology</i> , 2012, 81, 4005-4012.	1.2	17
1045	Cardiorespiratory fitness is positively correlated with cerebral white matter integrity in healthy seniors. <i>NeuroImage</i> , 2012, 59, 1514-1523.	2.1	144
1046	How and how not to correct for CSF-contamination in diffusion MRI. <i>NeuroImage</i> , 2012, 59, 1394-1403.	2.1	257
1047	Diffusion tractography of post-mortem human brains: Optimization and comparison of spin echo and steady-state free precession techniques. <i>NeuroImage</i> , 2012, 59, 2284-2297.	2.1	70
1048	The influence of complex white matter architecture on the mean diffusivity in diffusion tensor MRI of the human brain. <i>NeuroImage</i> , 2012, 59, 2208-2216.	2.1	183
1049	Linking white matter tracts to associated cortical grey matter: A tract extension methodology. <i>NeuroImage</i> , 2012, 59, 3094-3102.	2.1	17
1050	Along-tract statistics allow for enhanced tractography analysis. <i>NeuroImage</i> , 2012, 59, 3227-3242.	2.1	205
1051	Automated delineation of white matter fiber tracts with a multiple region-of-interest approach. <i>NeuroImage</i> , 2012, 59, 3690-3700.	2.1	49
1052	Ball and rackets: Inferring fiber fanning from diffusion-weighted MRI. <i>NeuroImage</i> , 2012, 60, 1412-1425.	2.1	142
1053	Effects of image distortions originating from susceptibility variations and concomitant fields on diffusion MRI tractography results. <i>NeuroImage</i> , 2012, 61, 275-288.	2.1	195
1054	Brain white matter organisation in adolescence is related to childhood cerebral responses to facial expressions and harm avoidance. <i>NeuroImage</i> , 2012, 61, 1394-1401.	2.1	34
1055	Quantitative assessment of a framework for creating anatomical brain networks via global tractography. <i>NeuroImage</i> , 2012, 61, 1017-1030.	2.1	37
1056	A multi-center study: Intra-scan and inter-scan variability of diffusion spectrum imaging. <i>NeuroImage</i> , 2012, 62, 87-94.	2.1	21
1057	A new approach for corticospinal tract reconstruction based on navigated transcranial stimulation and standardized fractional anisotropy values. <i>NeuroImage</i> , 2012, 62, 1600-1609.	2.1	121
1058	Ultra-high resolution diffusion tensor imaging of the microscopic pathways of the medial temporal lobe. <i>NeuroImage</i> , 2012, 62, 2065-2082.	2.1	65

#	ARTICLE	IF	CITATIONS
1059	Architectural configuration and microstructural properties of the sacral plexus: A diffusion tensor MRI and fiber tractography study. <i>NeuroImage</i> , 2012, 62, 1792-1799.	2.1	59
1060	Human cortical connectome reconstruction from diffusion weighted MRI: The effect of tractography algorithm. <i>NeuroImage</i> , 2012, 62, 1732-1749.	2.1	164
1061	Anatomically-constrained tractography: Improved diffusion MRI streamlines tractography through effective use of anatomical information. <i>NeuroImage</i> , 2012, 62, 1924-1938.	2.1	897
1062	A large deformation diffeomorphic metric mapping solution for diffusion spectrum imaging datasets. <i>NeuroImage</i> , 2012, 63, 818-834.	2.1	37
1063	From research to clinical practice: Implementation of functional magnetic imaging and white matter tractography in the clinical environment. <i>Journal of the Neurological Sciences</i> , 2012, 312, 158-165.	0.3	38
1064	3D Slicer as an image computing platform for the Quantitative Imaging Network. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1323-1341.	1.0	5,126
1065	Anterior limb of the internal capsule in schizophrenia: a diffusion tensor tractography study. <i>Brain Imaging and Behavior</i> , 2012, 6, 417-425.	1.1	39
1066	Diffusion magnetic resonance imaging for Brainnetome: A critical review. <i>Neuroscience Bulletin</i> , 2012, 28, 375-388.	1.5	14
1067	Altered White Matter Structure of the Dentatorubrothalamic Pathway in Children with Autistic Spectrum Disorders. <i>Cerebellum</i> , 2012, 11, 957-971.	1.4	34
1068	Corticospinal tractography with morphological, functional and diffusion tensor MRI: a comparative study of four deterministic algorithms used in clinical routine. <i>Surgical and Radiologic Anatomy</i> , 2012, 34, 709-719.	0.6	8
1069	New Developments in the Visualization and Processing of Tensor Fields. <i>Mathematics and Visualization</i> , 2012, , .	0.4	10
1071	Improved Sensitivity to Cerebral White Matter Abnormalities in Alzheimer's Disease with Spherical Deconvolution Based Tractography. <i>PLoS ONE</i> , 2012, 7, e44074.	1.1	77
1072	The Connectome Mapper: An Open-Source Processing Pipeline to Map Connectomes with MRI. <i>PLoS ONE</i> , 2012, 7, e48121.	1.1	248
1073	Tract Profiles of White Matter Properties: Automating Fiber-Tract Quantification. <i>PLoS ONE</i> , 2012, 7, e49790.	1.1	669
1074	Neuroscientific Applications of High-Field MRI in Humans. <i>Medical Radiology</i> , 2012, , 137-149.	0.0	5
1075	Connectomic surgery: diffusion tensor imaging (DTI) tractography as a targeting modality for surgical modulation of neural networks. <i>Frontiers in Integrative Neuroscience</i> , 2012, 6, 15.	1.0	94
1076	Visual Field Map Organization in Human Visual Cortex. , 0, , .		10
1077	Diffusion Tensor Imaging-Based Research on Human White Matter Anatomy. <i>Scientific World Journal</i> , The, 2012, 2012, 1-6.	0.8	3

#	ARTICLE	IF	CITATIONS
1078	The Geometric Structure of the Brain Fiber Pathways. <i>Science</i> , 2012, 335, 1628-1634.	6.0	385
1079	Diffusion Tensor Imaging Shows Structural Remodeling of Stroke Mirror Region: Results from a Pilot Study. <i>European Neurology</i> , 2012, 67, 370-376.	0.6	21
1080	Diffusion tensor imaging tractography parameters of limbic system bundles in temporal lobe epilepsy patients. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 561-568.	1.9	27
1081	Magnetic resonance imaging of the substantia nigra in Parkinson's disease. <i>Movement Disorders</i> , 2012, 27, 822-830.	2.2	80
1082	A simple isotropic phantom for diffusional kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 537-542.	1.9	15
1083	Reduced fractional anisotropy in the uncinate fasciculus in patients with major depression carrying the meta-allele of the Val66Met brain-derived neurotrophic factor genotype. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2012, 159B, 537-548.	1.1	82
1084	A review of magnetic resonance imaging and diffusion tensor imaging findings in mild traumatic brain injury. <i>Brain Imaging and Behavior</i> , 2012, 6, 137-192.	1.1	777
1085	Information-Theoretic Approach for Automated White Matter Fiber Tracts Reconstruction. <i>Neuroinformatics</i> , 2012, 10, 305-318.	1.5	2
1086	Functional Imaging and the Cerebellum: Recent Developments and Challenges. Editorial. <i>Cerebellum</i> , 2012, 11, 311-313.	1.4	13
1087	Intraoperative DTI and brain mapping for surgery of neoplasm of the motor cortex and the corticospinal tract: our protocol and series in BrainSUITE. <i>Neurosurgical Review</i> , 2012, 35, 401-412.	1.2	40
1088	Signal-to-noise ratio of diffusion weighted magnetic resonance imaging: Estimation methods and in vivo application to spinal cord. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 285-294.	3.5	10
1089	Human connectomics. <i>Current Opinion in Neurobiology</i> , 2012, 22, 144-153.	2.0	220
1090	DTI reveals structural differences in white matter tracts between bilingual and monolingual children. <i>Brain Research</i> , 2012, 1435, 72-80.	1.1	137
1091	Diffusion tensor imaging reveals normal geniculocalcarine-tract integrity in acquired blindness. <i>Brain Research</i> , 2012, 1458, 34-39.	1.1	18
1092	Modeling Functional Data with Spatially Heterogeneous Shape Characteristics. <i>Biometrics</i> , 2012, 68, 331-343.	0.8	25
1093	Atlas-Based Versus Individual-Based Fiber Tracking of the Corpus Callosum in Patients with Multiple Sclerosis: Reliability and Clinical Correlations. <i>Journal of Neuroimaging</i> , 2012, 22, 355-364.	1.0	6
1094	A novel approach for improved tractography and quantitative analysis of probabilistic fibre tracking curves. <i>Medical Image Analysis</i> , 2012, 16, 227-238.	7.0	10
1095	Globally optimized fiber tracking and hierarchical clustering – a unified framework. <i>Magnetic Resonance Imaging</i> , 2012, 30, 485-495.	1.0	13

#	ARTICLE	IF	CITATIONS
1096	Polynomial fitting of DT-MRI fiber tracts allows accurate estimation of muscle architectural parameters. <i>Magnetic Resonance Imaging</i> , 2012, 30, 589-600.	1.0	27
1097	Cortical control of inhibition of return: Evidence from patients with inferior parietal damage and visual neglect. <i>Neuropsychologia</i> , 2012, 50, 800-809.	0.7	58
1098	Age-related changes in parahippocampal white matter integrity: A diffusion tensor imaging study. <i>Neuropsychologia</i> , 2012, 50, 1759-1765.	0.7	52
1099	Correlations between Stroop task performance and white matter lesion measures in late-onset major depression. <i>Psychiatry Research - Neuroimaging</i> , 2012, 202, 142-149.	0.9	18
1100	Fasciculography: Robust Prior-Free Real-Time Normalized Volumetric Neural Tract Parcellation. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 217-230.	5.4	2
1101	Diffuse disconnectivity in traumatic brain injury: a resting state fMRI and DTI study. <i>Translational Neuroscience</i> , 2012, 3, 9-14.	0.7	42
1102	Longitudinal Penalized Functional Regression for Cognitive Outcomes on Neuronal Tract Measurements. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 453-469.	0.5	91
1103	Considerations in high-resolution skeletal muscle diffusion tensor imaging using single-shot echo planar imaging with stimulated echo preparation and sensitivity encoding. <i>NMR in Biomedicine</i> , 2012, 25, 766-778.	1.6	31
1104	Validation of diffusion tensor MRI in the central nervous system using light microscopy: quantitative comparison of fiber properties. <i>NMR in Biomedicine</i> , 2012, 25, 900-908.	1.6	64
1105	Contrast-enhanced MRI of murine myocardial infarction – Part II. <i>NMR in Biomedicine</i> , 2012, 25, 969-984.	1.6	18
1106	Fast Approximate Stochastic Tractography. <i>Neuroinformatics</i> , 2012, 10, 5-17.	1.5	3
1107	Three-Dimensional Interactive and Stereotactic Human Brain Atlas of White Matter Tracts. <i>Neuroinformatics</i> , 2012, 10, 33-55.	1.5	36
1108	Transcallosal sensorimotor fiber tract structure-function relationships. <i>Human Brain Mapping</i> , 2013, 34, 384-395.	1.9	81
1109	Probing tissue microstructure with restriction spectrum imaging: Histological and theoretical validation. <i>Human Brain Mapping</i> , 2013, 34, 327-346.	1.9	203
1110	Can spherical deconvolution provide more information than fiber orientations? Hindrance modulated orientational anisotropy, a true-tract specific index to characterize white matter diffusion. <i>Human Brain Mapping</i> , 2013, 34, 2464-2483.	1.9	260
1111	Super-resolution for multislice diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 103-113.	1.9	50
1112	Comparison of white matter integrity between autism spectrum disorder subjects and typically developing individuals: a meta-analysis of diffusion tensor imaging tractography studies. <i>Molecular Autism</i> , 2013, 4, 25.	2.6	144
1113	Diffusion MR imaging: How to get the maximum from the experimental time. <i>Translational Neuroscience</i> , 2013, 4, .	0.7	3

#	ARTICLE	IF	CITATIONS
1114	Anatomy of the visual word form area: Adjacent cortical circuits and long-range white matter connections. <i>Brain and Language</i> , 2013, 125, 146-155.	0.8	206
1115	Automatic detection of primary motor areas using diffusion <scp>MRI</scp> tractography: Comparison with functional <scp>MRI</scp> and electrical stimulation mapping. <i>Epilepsia</i> , 2013, 54, 1381-1390.	2.6	18
1116	A revised limbic system model for memory, emotion and behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 1724-1737.	2.9	529
1117	Diffusion imaging quality control via entropy of principal direction distribution. <i>NeuroImage</i> , 2013, 82, 1-12.	2.1	18
1119	Imaging the Brain in Autism. , 2013, , .		20
1120	Magnetic Resonance Imaging of Pediatric Muscular Disorders. <i>Radiologic Clinics of North America</i> , 2013, 51, 721-742.	0.9	34
1121	MR Diffusion Histology and Micro-Tractography Reveal Mesoscale Features of the Human Cerebellum. <i>Cerebellum</i> , 2013, 12, 923-931.	1.4	49
1122	Atlas of PET/MR Imaging in Oncology. , 2013, , .		2
1123	Illustrative uncertainty visualization of DTI fiber pathways. <i>Visual Computer</i> , 2013, 29, 297-309.	2.5	19
1124	Socioeconomic status is positively correlated with frontal white matter integrity in aging. <i>Age</i> , 2013, 35, 2045-2056.	3.0	28
1125	Global Tracking in Human Gliomas: A Comparison with Established Tracking Methods. <i>Clinical Neuroradiology</i> , 2013, 23, 263-275.	1.0	7
1126	Intraoperative visualisation of language fascicles by diffusion tensor imaging-based tractography in glioma surgery. <i>Acta Neurochirurgica</i> , 2013, 155, 437-448.	0.9	34
1127	Genetic contributions to changes of fiber tracts of ventral visual stream in 22q11.2 deletion syndrome. <i>Brain Imaging and Behavior</i> , 2013, 7, 316-325.	1.1	22
1128	Diffusion tensor MRI of chemotherapy-induced cognitive impairment in non-CNS cancer patients: a review. <i>Brain Imaging and Behavior</i> , 2013, 7, 409-435.	1.1	93
1129	Fronto-tectal white matter connectivity mediates facilitatory effects of non-invasive neurostimulation on visual detection. <i>NeuroImage</i> , 2013, 82, 344-354.	2.1	29
1130	Helical Structure of the Cardiac Ventricular Anatomy Assessed by Diffusion Tensor Magnetic Resonance Imaging With Multiresolution Tractography. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2013, 66, 782-790.	0.4	28
1131	Fiber tract-driven topographical mapping (FTTM) reveals microstructural relevance for interhemispheric visuomotor function in the aging brain. <i>NeuroImage</i> , 2013, 77, 195-206.	2.1	9
1132	White matter lateralization and interhemispheric coherence to auditory modulations in normal reading and dyslexic adults. <i>Neuropsychologia</i> , 2013, 51, 2087-2099.	0.7	49

#	ARTICLE	IF	CITATIONS
1133	The CONNECT project: Combining macro- and micro-structure. <i>NeuroImage</i> , 2013, 80, 273-282.	2.1	121
1134	Fiber clustering versus the parcellation-based connectome. <i>NeuroImage</i> , 2013, 80, 283-289.	2.1	80
1135	Spatial Shrinkage Estimation of Diffusion Tensors on Diffusion-Weighted Imaging Data. <i>Journal of the American Statistical Association</i> , 2013, 108, 864-875.	1.8	3
1136	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 125-143.	2.1	851
1137	Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging. <i>Nature Medicine</i> , 2013, 19, 1667-1672.	15.2	261
1138	Brain network efficiency and topology depend on the fiber tracking method: 11 tractography algorithms compared in 536 subjects. , 2013, , .		12
1139	Walk the Line: From Diffusion Imaging to the Microstructure of the Brain. <i>Clinical Neuroradiology</i> , 2013, 23, 261-262.	1.0	1
1140	Combining Whole-Brain Voxel-Wise Analysis with <i>In Vivo</i> Tractography of Diffusion Behavior after Sports-Related Concussion in Adolescents: A Preliminary Report. <i>Journal of Neurotrauma</i> , 2013, 30, 1243-1249.	1.7	61
1141	An improved fast marching method and its application in Alzheimer's disease. <i>International Journal of Imaging Systems and Technology</i> , 2013, 23, 346-352.	2.7	0
1142	RubiX: Combining Spatial Resolutions for Bayesian Inference of Crossing Fibers in Diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 969-982.	5.4	32
1143	Extended Broca's Area in the Functional Connectome of Language in Adults: Combined Cortical and Subcortical Single-Subject Analysis Using fMRI and DTI Tractography. <i>Brain Topography</i> , 2013, 26, 428-441.	0.8	51
1144	Connectivity Issues of the "Hallucinating" Brain. , 2013, , 417-443.		2
1145	The topographic connectome. <i>Current Opinion in Neurobiology</i> , 2013, 23, 207-215.	2.0	99
1146	Corrected Confidence Bands for Functional Data Using Principal Components. <i>Biometrics</i> , 2013, 69, 41-51.	0.8	83
1147	Does the use of hormonal contraceptives cause microstructural changes in cerebral white matter? Preliminary results of a DTI and tractography study. <i>European Radiology</i> , 2013, 23, 57-64.	2.3	54
1148	Reliability of the corticospinal tract and arcuate fasciculus reconstructed with DTI-based tractography: implications for clinical practice. <i>European Radiology</i> , 2013, 23, 28-36.	2.3	24
1149	On the Curve Reconstruction in Riemannian Manifolds. <i>Journal of Mathematical Imaging and Vision</i> , 2013, 45, 55-68.	0.8	0
1150	Clinical Applications of Diffusion Tensor Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2013, 21, 279-298.	0.6	23

#	ARTICLE	IF	CITATIONS
1151	Decompressive craniectomy causes a significant strain increase in axonal fiber tracts. <i>Journal of Clinical Neuroscience</i> , 2013, 20, 509-513.	0.8	34
1152	Evaluation of fiber tracking from subsampled q-space data in diffusion spectrum imaging. <i>Magnetic Resonance Imaging</i> , 2013, 31, 820-826.	1.0	8
1153	Diffusion tensor tractography of residual fibers in traumatic spinal cord injury: A pilot study. <i>Journal of Neuroradiology</i> , 2013, 40, 181-186.	0.6	29
1154	Quantifying diffusion MRI tractography of the corticospinal tract in brain tumors with deterministic and probabilistic methods. <i>NeuroImage: Clinical</i> , 2013, 3, 361-368.	1.4	118
1155	White matter alterations in antipsychotic- and mood stabilizer-naïve individuals with bipolar II/NOS disorder. <i>NeuroImage: Clinical</i> , 2013, 3, 271-278.	1.4	26
1156	Estudio tractográfico de la anatomía helicoidal del miocardio ventricular mediante resonancia magnética por tensor de difusión. <i>Revista Española De Cardiología</i> , 2013, 66, 782-790.	0.6	43
1157	Using in vivo probabilistic tractography to reveal two segregated dorsal "language-cognitive" pathways in the human brain. <i>Brain and Language</i> , 2013, 127, 230-240.	0.8	25
1158	SIFT: Spherical-deconvolution informed filtering of tractograms. <i>NeuroImage</i> , 2013, 67, 298-312.	2.1	573
1159	A Neural Link Between Feeling and Hearing. <i>Cerebral Cortex</i> , 2013, 23, 1724-1730.	1.6	58
1160	Diffusional kurtosis imaging of cingulate fibers in Parkinson disease: Comparison with conventional diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1501-1506.	1.0	76
1161	Diffusion Magnetic Resonance Imaging and Fiber Tractography. <i>PET Clinics</i> , 2013, 8, 279-293.	1.5	1
1162	Neural plasticity after pre-linguistic injury to the arcuate and superior longitudinal fasciculi. <i>Cortex</i> , 2013, 49, 301-311.	1.1	34
1163	In vivo human cardiac fibre architecture estimation using shape-based diffusion tensor processing. <i>Medical Image Analysis</i> , 2013, 17, 1243-1255.	7.0	101
1164	Diffusion MRI connectometry automatically reveals affected fiber pathways in individuals with chronic stroke. <i>NeuroImage: Clinical</i> , 2013, 2, 912-921.	1.4	72
1165	Altered brain structural connectivity in post-traumatic stress disorder: A diffusion tensor imaging tractography study. <i>Journal of Affective Disorders</i> , 2013, 150, 798-806.	2.0	50
1166	Imaging neural architecture of the brain based on its multipole magnetic response. <i>NeuroImage</i> , 2013, 67, 193-202.	2.1	25
1167	Probabilistic tractography using Q-ball imaging and particle filtering: Application to adult and in-utero fetal brain studies. <i>Medical Image Analysis</i> , 2013, 17, 297-310.	7.0	20
1168	Tractometer: Towards validation of tractography pipelines. <i>Medical Image Analysis</i> , 2013, 17, 844-857.	7.0	188

#	ARTICLE	IF	CITATIONS
1169	Geometrical constraints for robust tractography selection. <i>NeuroImage</i> , 2013, 81, 26-48.	2.1	4
1170	Resting State fMRI-guided Fiber Clustering: Methods and Applications. <i>Neuroinformatics</i> , 2013, 11, 119-133.	1.5	18
1171	Tracking cerebral white matter changes across the lifespan: insights from diffusion tensor imaging studies. <i>Journal of Neural Transmission</i> , 2013, 120, 1369-1395.	1.4	97
1172	Biophysical network models and the human connectome. <i>NeuroImage</i> , 2013, 80, 330-338.	2.1	78
1173	The parcellation-based connectome: Limitations and extensions. <i>NeuroImage</i> , 2013, 80, 397-404.	2.1	272
1174	Anatomical Brain Networks on the Prediction of Abnormal Brain States. <i>Brain Connectivity</i> , 2013, 3, 1-21.	0.8	44
1175	Graph analysis of the human connectome: Promise, progress, and pitfalls. <i>NeuroImage</i> , 2013, 80, 426-444.	2.1	677
1176	Variable selection in generalized functional linear models. <i>Stat</i> , 2013, 2, 86-101.	0.3	74
1177	Two-tensor model-based bootstrapping on classified tensor morphologies: estimation of uncertainty in fiber orientation and probabilistic tractography. <i>Magnetic Resonance Imaging</i> , 2013, 31, 296-312.	1.0	5
1178	Diffusion-Weighted MR Neurography of Extremity Nerves With Unidirectional Motion-Probing Gradients at 3 T: Feasibility Study. <i>American Journal of Roentgenology</i> , 2013, 200, 1106-1114.	1.0	18
1179	Networks of anatomical covariance. <i>NeuroImage</i> , 2013, 80, 489-504.	2.1	355
1180	Probabilistic Diffusion Tractography and Graph Theory Analysis Reveal Abnormal White Matter Structural Connectivity Networks in Drug-Naive Boys with Attention Deficit/Hyperactivity Disorder. <i>Journal of Neuroscience</i> , 2013, 33, 10676-10687.	1.7	184
1181	Mapping putative hubs in human, chimpanzee and rhesus macaque connectomes via diffusion tractography. <i>NeuroImage</i> , 2013, 80, 462-474.	2.1	94
1182	Reconstruction of White Matter Tracts via Repeated Deterministic Streamline Tracking – Initial Experience. <i>PLoS ONE</i> , 2013, 8, e63082.	1.1	11
1183	In vivo detection of microscopic anisotropy using quadruple pulsed-field gradient (qPFG) diffusion MRI on a clinical scanner. <i>NeuroImage</i> , 2013, 64, 229-239.	2.1	60
1184	Dissociation and convergence of the dorsal and ventral visual working memory streams in the human prefrontal cortex. <i>NeuroImage</i> , 2013, 65, 488-498.	2.1	44
1185	A pitfall in the reconstruction of fibre ODFs using spherical deconvolution of diffusion MRI data. <i>NeuroImage</i> , 2013, 65, 433-448.	2.1	103
1186	BootGraph: Probabilistic fiber tractography using bootstrap algorithms and graph theory. <i>NeuroImage</i> , 2013, 66, 426-435.	2.1	14

#	ARTICLE	IF	CITATIONS
1187	The structural, connectomic and network covariance of the human brain. <i>NeuroImage</i> , 2013, 66, 489-499.	2.1	36
1188	3D Stochastic Completion Fields for Mapping Connectivity in Diffusion MRI. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013, 35, 983-995.	9.7	14
1189	LineAOâ€”Improved Three-Dimensional Line Rendering. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2013, 19, 433-445.	2.9	31
1190	Logical Foundations and Fast Implementation of Probabilistic Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1397-1410.	5.4	12
1191	Longâ€”range connectomics. <i>Annals of the New York Academy of Sciences</i> , 2013, 1305, 83-93.	1.8	35
1192	A systematic review of functional magnetic resonance imaging and diffusion tensor imaging modalities used in presurgical planning of brain tumour resection. <i>Neurosurgical Review</i> , 2013, 36, 205-214.	1.2	99
1193	Intraoperative use of diffusion tensor imaging-based tractography for resection of gliomas located near the pyramidal tract: comparison with subcortical stimulation mapping and contribution to surgical outcomes. <i>British Journal of Neurosurgery</i> , 2013, 27, 668-675.	0.4	34
1194	Can diffusion tensor imaging predict outcome in acute traumatic deterioration of degenerative cervical spine disease. <i>Indian Journal of Neurotrauma</i> , 2013, 10, 97-104.	0.3	0
1195	Comparison of mouse brain DTI maps using K-space average, image-space average, or no average approach. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1532-1536.	1.0	1
1196	Early registration of diffusion tensor images for group tractography of dystonia patients. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 67-75.	1.9	11
1197	Independent component analysis tractography combined with a ballâ€”stick model to isolate intravoxel crossing fibers of the corticospinal tracts in clinical diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 441-453.	1.9	21
1198	In vivo diffusion tensor MRI of the human heart: Reproducibility of breathâ€”hold and navigatorâ€”based approaches. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 454-465.	1.9	145
1199	Non-invasive high-resolution tracking of human neuronal pathways: diffusion tensor imaging at 7T with 1.2 mm isotropic voxel size. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
1200	Editorial: Beyond diffusion tensor imaging. <i>Journal of Neurosurgery</i> , 2013, 118, 1363-1366.	0.9	22
1201	Extracting three-dimensional orientation and tractography of myofibers using optical coherence tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2150.	1.5	44
1202	Effect of disease and recovery on functional anatomy in brain tumor patients: insights from functional MRI and diffusion tensor imaging. <i>Imaging in Medicine</i> , 2013, 5, 333-346.	0.0	14
1203	Diffusion tensor imaging and related techniques in tuberous sclerosis complex: review and future directions. <i>Future Neurology</i> , 2013, 8, 583-597.	0.9	40
1204	Advanced Neuroimaging in Traumatic Brain Injury. <i>Seminars in Neurology</i> , 2013, 32, 374-400.	0.5	27

#	ARTICLE	IF	CITATIONS
1205	Quantification of Stretching in the Ventricular Wall and Corpus Callosum and Corticospinal Tracts in Hydrocephalus before and after Ventriculoperitoneal Shunt Operation. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-10.	0.4	7
1206	Computational Representation of White Matter Fiber Orientations. <i>International Journal of Biomedical Imaging</i> , 2013, 2013, 1-12.	3.0	0
1207	Acquisition Guidelines and Quality Assessment Tools for Analyzing Neonatal Diffusion Tensor MRI Data. <i>American Journal of Neuroradiology</i> , 2013, 34, 1496-1505.	1.2	26
1208	Histological Validation of DW-MRI Tractography in Human Postmortem Tissue. <i>Cerebral Cortex</i> , 2013, 23, 442-450.	1.6	93
1209	Word learning is mediated by the left arcuate fasciculus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13168-13173.	3.3	228
1210	Rethinking the Role of the Middle Longitudinal Fascicle in Language and Auditory Pathways. <i>Cerebral Cortex</i> , 2013, 23, 2347-2356.	1.6	124
1211	Case Series. <i>Journal of Child Neurology</i> , 2013, 28, 774-780.	0.7	14
1212	Anisotropic phantom measurements for quality assured use of diffusion tensor imaging in clinical practice. <i>Acta Radiologica</i> , 2013, 54, 576-580.	0.5	5
1213	High Angular Resolution Diffusion Imaging Probabilistic Tractography of the Auditory Radiation. <i>American Journal of Neuroradiology</i> , 2013, 34, 1573-1578.	1.2	74
1214	A hitchhiker's guide to diffusion tensor imaging. <i>Frontiers in Neuroscience</i> , 2013, 7, 31.	1.4	615
1215	Frontotemporal white-matter microstructural abnormalities in adolescents with conduct disorder: a diffusion tensor imaging study. <i>Psychological Medicine</i> , 2013, 43, 401-411.	2.7	96
1216	Application of Self-Organizing Artificial Neural Networks on Simulated Diffusion Tensor Images. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-13.	0.6	2
1217	Autostereoscopic 3D visualization and image processing system for neurosurgery. <i>Biomedizinische Technik</i> , 2013, 58, 281-91.	0.9	3
1218	DTI Measurements in Multiple Sclerosis: Evaluation of Brain Damage and Clinical Implications. <i>Multiple Sclerosis International</i> , 2013, 2013, 1-11.	0.4	112
1219	Functional and structural connectivity of frontostriatal circuitry in Autism Spectrum Disorder. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 430.	1.0	129
1220	A convex optimization framework for global tractography. , 2013, , .		17
1221	Peripheral Neuropathy: Assessment of Proximal Nerve Integrity By Diffusion Tensor Imaging. <i>Muscle and Nerve</i> , 2013, 48, 889-896.	1.0	50
1222	Resting-State Networks and the Functional Connectome of the Human Brain in Agenesis of the Corpus Callosum. <i>Brain Connectivity</i> , 2013, 3, 547-562.	0.8	50

#	ARTICLE	IF	CITATIONS
1223	Cortico-Cortical, Cortico-Striatal, and Cortico-Thalamic White Matter Fiber Tracts Generated in the Macaque Brain via Dynamic Programming. <i>Brain Connectivity</i> , 2013, 3, 475-490.	0.8	10
1224	Magnetic Resonance Field Strength Effects on Diffusion Measures and Brain Connectivity Networks. <i>Brain Connectivity</i> , 2013, 3, 72-86.	0.8	42
1225	Q-ball imaging with PROPELLER EPI acquisition. <i>NMR in Biomedicine</i> , 2013, 26, 1723-1732.	1.6	6
1226	Self-organizing maps for brain tractography in MRI. , 2013, , .		0
1227	Localization of function-specific segments of the primary motor pathway in children with Sturge-Weber syndrome: A multimodal imaging analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1152-1161.	1.9	9
1228	Plasma brain-derived neurotrophic factor and prefrontal white matter integrity in late-onset depression and normal aging. <i>Acta Psychiatrica Scandinavica</i> , 2013, 128, 387-396.	2.2	21
1229	Correlation between diffusion tensor tractography and proton MR spectroscopy in normal controls. , 2013, 2013, 515-8.		2
1230	Quantitative tractography and tract shape modeling in amyotrophic lateral sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1140-1145.	1.9	16
1231	Diffeomorphic point set registration using non-stationary mixture models. , 2013, , .		2
1232	FATCAT: (An Efficient) Functional And Tractographic Connectivity Analysis Toolbox. <i>Brain Connectivity</i> , 2013, 3, 523-535.	0.8	178
1233	Disruption of cerebral networks and cognitive impairment in Alzheimer disease. <i>Neurology</i> , 2013, 80, 1370-1377.	1.5	125
1234	Diffusion-sensitive magnetic resonance spectroscopy and imaging in biomedical sciences. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 265-287.	1.2	3
1235	Model-based reconstruction of undersampled diffusion tensor k-space data. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 429-440.	1.9	40
1236	Reliability of two clinically relevant fiber pathways reconstructed with constrained spherical deconvolution. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1544-1556.	1.9	38
1237	Diffusion Tensor Imaging-Demonstrated Differences between Hemiplegic and Diplegic Cerebral Palsy with Symmetric Periventricular Leukomalacia. <i>American Journal of Neuroradiology</i> , 2013, 34, 650-654.	1.2	18
1238	A framework for modelling and clustering randomly structured white matter fibre tracts in diffusion tensor imaging. <i>International Journal of Medical Engineering and Informatics</i> , 2013, 5, 334.	0.2	0
1239	Feasibility of Diffusion Tensor Tractography of Brachial Plexus Injuries at 1.5 T. <i>Investigative Radiology</i> , 2013, 48, 104-112.	3.5	50
1240	Multiple Microbleeds are Related to Cerebral Network Disruptions in Patients with Early Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 211-221.	1.2	89

#	ARTICLE	IF	CITATIONS
1241	Varying coefficient model for modeling diffusion tensors along white matter tracts. <i>Annals of Applied Statistics</i> , 2013, 7, 102-125.	0.5	8
1242	Brain Connections – Resting State fMRI Functional Connectivity. , 0, , .		12
1243	Advanced neuroimaging. , 0, , 430-441.		0
1244	Diffusion-Weighted and Diffusion Tensor Imaging: Applications in Skeletal Muscles. <i>Medical Radiology</i> , 2013, , 69-85.	0.0	0
1245	Diffusion Tensor Imaging to Determine Effects of Antidementive Treatment on Cerebral Structural Connectivity in Alzheimer’s Disease. <i>Current Pharmaceutical Design</i> , 2013, 19, 6416-6425.	0.9	7
1247	Synesthesia, Hyper-Connectivity, and Diffusion Tensor Imaging. , 2013, , .		1
1248	Robust Tract Skeleton Extraction of Cingulum Based on Active Contour Model from Diffusion Tensor MR Imaging. <i>PLoS ONE</i> , 2013, 8, e56113.	1.1	6
1249	Accelerating Fibre Orientation Estimation from Diffusion Weighted Magnetic Resonance Imaging Using GPUs. <i>PLoS ONE</i> , 2013, 8, e61892.	1.1	152
1250	Comparison of Neurite Density Measured by MRI and Histology after TBI. <i>PLoS ONE</i> , 2013, 8, e63511.	1.1	19
1251	Optic Radiation Fiber Tractography in Glioma Patients Based on High Angular Resolution Diffusion Imaging with Compressed Sensing Compared with Diffusion Tensor Imaging - Initial Experience. <i>PLoS ONE</i> , 2013, 8, e70973.	1.1	41
1252	Validation of DTI Tractography-Based Measures of Primary Motor Area Connectivity in the Squirrel Monkey Brain. <i>PLoS ONE</i> , 2013, 8, e75065.	1.1	46
1253	Diffusion Microscopist Simulator: A General Monte Carlo Simulation System for Diffusion Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2013, 8, e76626.	1.1	46
1254	Deterministic Diffusion Fiber Tracking Improved by Quantitative Anisotropy. <i>PLoS ONE</i> , 2013, 8, e80713.	1.1	812
1255	Multi-Fiber Tractography Visualizations for Diffusion MRI Data. <i>PLoS ONE</i> , 2013, 8, e81453.	1.1	24
1256	Atlas-Guided Cluster Analysis of Large Tractography Datasets. <i>PLoS ONE</i> , 2013, 8, e83847.	1.1	28
1257	Imaging White Matter in Human Brainstem. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 400.	1.0	36
1258	Graph theoretical analysis of developmental patterns of the white matter network. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 716.	1.0	69
1259	Differences of inter-tract correlations between neonates and children around puberty: a study based on microstructural measurements with DTI. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 721.	1.0	24

#	ARTICLE	IF	CITATIONS
1260	Topological correlations of structural and functional networks in patients with traumatic brain injury. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 726.	1.0	77
1261	White matter fiber tracking directed by interpolating splines and a methodological framework for evaluation. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 13.	1.3	2
1262	Probing white-matter microstructure with higher-order diffusion tensors and susceptibility tensor MRI. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 11.	1.0	18
1263	MRI in clinical trials. , 0, , 264-270.		0
1264	Reliability and Repeatability of Quantitative Tractography Methods for Mapping Structural White Matter Connectivity in Preterm and Term Infants at Term-Equivalent Age. <i>PLoS ONE</i> , 2014, 9, e85807.	1.1	32
1265	Mapping Topographic Structure in White Matter Pathways with Level Set Trees. <i>PLoS ONE</i> , 2014, 9, e93344.	1.1	1
1266	Probabilistic Diffusion Tractography Reveals Improvement of Structural Network in Musicians. <i>PLoS ONE</i> , 2014, 9, e105508.	1.1	23
1267	Validation of Network Communicability Metrics for the Analysis of Brain Structural Networks. <i>PLoS ONE</i> , 2014, 9, e115503.	1.1	40
1268	Microstructure, Length, and Connection of Limbic Tracts in Normal Human Brain Development. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 228.	1.7	32
1269	Altered white matter microstructure is associated with social cognition and psychotic symptoms in 22q11.2 microdeletion syndrome. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 393.	1.0	52
1270	Quantifying uncertainty in brain network measures using Bayesian connectomics. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 126.	1.2	9
1271	Use of diffusion spectrum imaging in preliminary longitudinal evaluation of amyotrophic lateral sclerosis: development of an imaging biomarker. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 270.	1.0	25
1272	Investigating the contribution of ventral-lexical and dorsal-sublexical pathways during reading in bilinguals. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 507.	1.0	11
1273	Dipy, a library for the analysis of diffusion MRI data. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 8.	1.3	891
1274	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 28.	1.3	51
1275	Reproducibility of graph metrics of human brain structural networks. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 46.	1.3	33
1276	Diffusion-Weighted Imaging of the Spinal Cord. , 2014, , 123-145.		6
1277	Snake-based brain white matter fiber reconstruction. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 2945-2953.	0.4	0

#	ARTICLE	IF	CITATIONS
1278	The COgnitive-Pulmonary Disease (COgnitive-PD) study; protocol of a longitudinal observational comparative study on neuropsychological functioning of patients with COPD. <i>BMJ Open</i> , 2014, 4, e004495.	0.8	13
1279	Identifying group discriminative and age regressive sub-networks from DTI-based connectivity via a unified framework of non-negative matrix factorization and graph embedding. <i>Medical Image Analysis</i> , 2014, 18, 1337-1348.	7.0	20
1280	A Mixed Gauss and Directional Distance Filter for Fiber Direction Tracking. <i>International Journal of Image and Graphics</i> , 2014, 14, 1450001.	1.2	1
1282	Restricted Likelihood Ratio Tests for Functional Effects in the Functional Linear Model. <i>Technometrics</i> , 2014, 56, 483-493.	1.3	20
1283	Learning to Read Improves the Structure of the Arcuate Fasciculus. <i>Cerebral Cortex</i> , 2014, 24, 989-995.	1.6	174
1284	Scientific Visualization. <i>Mathematics and Visualization</i> , 2014, , .	0.4	16
1285	Impaired frontothalamic circuitry in suicidal patients with depression revealed by diffusion tensor imaging at 3.0 T. <i>Journal of Psychiatry and Neuroscience</i> , 2014, 39, 170-177.	1.4	100
1286	Fiber-Tracking. , 2014, , 79-96.		1
1287	Interpolation of diffusion weighted imaging datasets. <i>NeuroImage</i> , 2014, 103, 202-213.	2.1	122
1288	Multimodal tract-based analysis in ALS patients at 7T: A specific white matter profile?. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2014, 15, 84-92.	1.1	20
1289	Structural network efficiency is associated with cognitive impairment in small-vessel disease. <i>Neurology</i> , 2014, 83, 304-311.	1.5	242
1290	Altered white matter integrity in primary restless legs syndrome patients: diffusion tensor imaging study. <i>Neurological Research</i> , 2014, 36, 769-774.	0.6	28
1291	Gaussian Modeling of the Diffusion Signal. , 2014, , 87-104.		6
1292	Diffusion tensor based global tractography of human brain fiber bundles. , 2014, , .		0
1293	Real-Time Fine-Tuned Adjustment of Fiber Tracking Parameters. , 2014, , .		0
1294	Overview of object oriented data analysis. <i>Biometrical Journal</i> , 2014, 56, 732-753.	0.6	116
1295	The hubs of the human connectome are generally implicated in the anatomy of brain disorders. <i>Brain</i> , 2014, 137, 2382-2395.	3.7	971
1296	Callosal degeneration topographically correlated with cognitive function in amnesic mild cognitive impairment and alzheimer's disease dementia. <i>Human Brain Mapping</i> , 2014, 35, 1529-1543.	1.9	25

#	ARTICLE	IF	CITATIONS
1297	Leading non-Gaussian corrections for diffusion orientation distribution function. NMR in Biomedicine, 2014, 27, 202-211.	1.6	35
1298	Diffusion tensor imaging and tractography of the human language pathways: Moving into the clinical realm. Journal of Magnetic Resonance Imaging, 2014, 40, 1041-1053.	1.9	8
1299	Fiberfox: Facilitating the creation of realistic white matter software phantoms. Magnetic Resonance in Medicine, 2014, 72, 1460-1470.	1.9	91
1300	Disrupted anatomic white matter network in left mesial temporal lobe epilepsy. Epilepsia, 2014, 55, 674-682.	2.6	74
1301	Hadamard slice encoding for reduced-FOV diffusion-weighted imaging. Magnetic Resonance in Medicine, 2014, 72, 1277-1290.	1.9	28
1302	A cerebral blood vessels segmentation method using a flux based second order tensor model. , 2014, , .		0
1303	The DTI study on visual cortex V6 of human brain. , 2014, , .		0
1304	Prenatal stress and limbic-prefrontal white matter microstructure in children aged 6-9 years: a preliminary diffusion tensor imaging study. World Journal of Biological Psychiatry, 2014, 15, 346-352.	1.3	58
1305	Peripheral nerves and plexus. Current Opinion in Neurology, 2014, 27, 370-379.	1.8	79
1306	Use of High-Field Intraoperative Magnetic Resonance Imaging to Enhance the Extent of Resection of Enhancing and Nonenhancing Gliomas. Neurosurgery, 2014, 74, 339-350.	0.6	43
1307	Assessment of Heart Microstructure. Circulation, 2014, 129, 1720-1722.	1.6	5
1308	White matter microstructural abnormalities in families multiply affected with bipolar I disorder: a diffusion tensor tractography study. Psychological Medicine, 2014, 44, 2139-2150.	2.7	42
1309	Structural and Functional Aspects Relating to Cost and Benefit of Rich Club Organization in the Human Cerebral Cortex. Cerebral Cortex, 2014, 24, 2258-2267.	1.6	223
1310	Global Tractography with Embedded Anatomical Priors for Quantitative Connectivity Analysis. Frontiers in Neurology, 2014, 5, 232.	1.1	34
1311	Can Musical Training Influence Brain Connectivity? Evidence from Diffusion Tensor MRI. Brain Sciences, 2014, 4, 405-427.	1.1	53
1312	Contribution of Diffusion Tractography to the Anatomy of Language. , 2014, , 511-529.		3
1313	Validation of Tractography. , 2014, , 453-480.		4
1314	Meyer's Loop Anatomy Demonstrated Using Diffusion Tensor MR Imaging and Fiber Tractography at 3T. Acta Marisensis - Seria Medica, 2014, 60, 215-222.	0.3	2

#	ARTICLE	IF	CITATIONS
1315	Structural abnormality of the corticospinal tract in major depressive disorder. <i>Biology of Mood & Anxiety Disorders</i> , 2014, 4, 8.	4.7	33
1316	Subdivision of the occipital lobes: An anatomical and functional MRI connectivity study. <i>Cortex</i> , 2014, 56, 121-137.	1.1	64
1317	Automated longitudinal intra-subject analysis (ALISA) for diffusion MRI tractography. <i>NeuroImage</i> , 2014, 86, 404-416.	2.1	13
1318	Altered structural networks and executive deficits in traumatic brain injury patients. <i>Brain Structure and Function</i> , 2014, 219, 193-209.	1.2	143
1319	Spinal Cord Injury: How Can We Improve the Classification and Quantification of Its Severity and Prognosis?. <i>Journal of Neurotrauma</i> , 2014, 31, 215-227.	1.7	49
1320	Corticospinal tract asymmetry and handedness in right- and left-handers by diffusion tensor tractography. <i>Surgical and Radiologic Anatomy</i> , 2014, 36, 111-124.	0.6	26
1321	Distributed corpus callosum involvement in amyotrophic lateral sclerosis: a deterministic tractography study using q-ball imaging. <i>Journal of Neurology</i> , 2014, 261, 27-36.	1.8	12
1322	Diffusion tensor imaging and tractography to evaluate sacral nerve root abnormalities in endometriosis-related pain: A pilot study. <i>European Radiology</i> , 2014, 24, 95-101.	2.3	51
1323	Fusing DTI and fMRI data: A survey of methods and applications. <i>NeuroImage</i> , 2014, 102, 184-191.	2.1	108
1324	Clinical Applications of Diffusion Tensor Imaging. <i>World Neurosurgery</i> , 2014, 82, 96-109.	0.7	102
1325	Brain Networks in Schizophrenia. <i>Neuropsychology Review</i> , 2014, 24, 32-48.	2.5	426
1326	Abnormalities in Myelination of the Superior Cerebellar Peduncle in Patients with Schizophrenia and Deficits in Movement Sequencing. <i>Cerebellum</i> , 2014, 13, 415-424.	1.4	23
1327	Human neuroimaging as a "Big Data" science. <i>Brain Imaging and Behavior</i> , 2014, 8, 323-331.	1.1	120
1328	Local termination pattern analysis: a tool for comparing white matter morphology. <i>Brain Imaging and Behavior</i> , 2014, 8, 292-299.	1.1	28
1329	Automatic clustering and population analysis of white matter tracts using maximum density paths. <i>NeuroImage</i> , 2014, 97, 284-295.	2.1	31
1330	Diffusion Tensor Magnetic Resonance Imaging and Fiber Tractography of the Sacral Plexus in Children with Spina Bifida. <i>Journal of Urology</i> , 2014, 192, 927-933.	0.2	17
1331	Diffusion tensor imaging in Alzheimer's disease and affective disorders. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2014, 264, 467-483.	1.8	24
1332	The Nature of Language. , 2014, , .		19

#	ARTICLE	IF	CITATIONS
1333	Testâ€retest reliability of structural brain networks from diffusion MRI. <i>NeuroImage</i> , 2014, 86, 231-243.	2.1	132
1335	Improved segmentation of white matter tracts with adaptive Riemannian metrics. <i>Medical Image Analysis</i> , 2014, 18, 161-175.	7.0	24
1336	Functional Brain Tumor Imaging. , 2014, , .		2
1337	Cardiac fiber tracking using particle filtering in MRI. , 2014, , .		1
1338	Postconcussional disorder and PTSD symptoms of militaryâ€related traumatic brain injury associated with compromised neurocircuitry. <i>Human Brain Mapping</i> , 2014, 35, 2652-2673.	1.9	78
1339	Insights into the pathogenesis and treatment of painful diabetic neuropathy. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2014, 126, 559-578.	1.0	25
1340	Quantitative analysis of brain microstructure following mild blunt and blast trauma. <i>Journal of Biomechanics</i> , 2014, 47, 3704-3711.	0.9	11
1341	Hemispheric lateralization of topological organization in structural brain networks. <i>Human Brain Mapping</i> , 2014, 35, 4944-4957.	1.9	77
1342	Kruskal's minimum spanning tree approach to brain fiber tractography computation. , 2014, , .		0
1343	Anatomical accuracy of brain connections derived from diffusion MRI tractography is inherently limited. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16574-16579.	3.3	657
1344	A Comparative Study of Different Level Interpolations for Improving Spatial Resolution in Diffusion Tensor Imaging. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 1317-1327.	3.9	10
1345	Preoperative Diffusion Tensor Imaging. <i>Neuroimaging Clinics of North America</i> , 2014, 24, 599-617.	0.5	27
1346	Integration of Restingâ€State fMRI and Diffusionâ€Weighted MRI Connectivity Analyses of the Human Brain: Limitations and Improvement. <i>Journal of Neuroimaging</i> , 2014, 24, 176-186.	1.0	15
1347	Anatomical predictors of aphasia recovery: a tractography study of bilateral perisylvian language networks. <i>Brain</i> , 2014, 137, 2027-2039.	3.7	270
1348	Cingulum bundle diffusivity and delusions of reference in first episode and chronic schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2014, 224, 124-132.	0.9	20
1349	MR Diffusion Tractography. , 2014, , 429-451.		14
1350	Advanced Methods to Study White Matter Microstructure. , 2014, , 156-163.		4
1351	Reliability and variability of diffusion tensor imaging (DTI) tractography in pediatric epilepsy. <i>Epilepsy and Behavior</i> , 2014, 37, 116-122.	0.9	28

#	ARTICLE	IF	CITATIONS
1352	Diffusion Tensor Imaging. , 2014, , 77-86.		3
1353	The Biophysics of Photosynthesis. , 2014, , .		21
1354	Advanced diffusion MRI fiber tracking in neurosurgical and neurodegenerative disorders and neuroanatomical studies: A review. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2286-2297.	1.8	93
1355	Advantages of QBI in TBSS analyses. Magnetic Resonance Imaging, 2014, 32, 184-189.	1.0	9
1356	Quantifying accuracy and precision of diffusion MR tractography of the corticospinal tract in brain tumors. Journal of Neurosurgery, 2014, 121, 349-358.	0.9	77
1357	Distribution of tract deficits in schizophrenia. BMC Psychiatry, 2014, 14, 99.	1.1	43
1358	MRI in Psychiatry. , 2014, , .		3
1359	Smooth Scalar-on-Image Regression via Spatial Bayesian Variable Selection. Journal of Computational and Graphical Statistics, 2014, 23, 46-64.	0.9	60
1360	Lifespan maturation and degeneration of human brain white matter. Nature Communications, 2014, 5, 4932.	5.8	335
1361	White Matter Water Diffusion Changes in Primary Sjogren Syndrome. American Journal of Neuroradiology, 2014, 35, 680-685.	1.2	20
1362	Choice of Diffusion Tensor Estimation Approach Affects Fiber Tractography of the Fornix in Preterm Brain. American Journal of Neuroradiology, 2014, 35, 1219-1225.	1.2	10
1363	Evaluation and statistical inference for human connectomes. Nature Methods, 2014, 11, 1058-1063.	9.0	225
1364	White matter integrity is associated with cerebrospinal fluid markers of Alzheimer's disease in normal adults. Neurobiology of Aging, 2014, 35, 2263-2271.	1.5	51
1365	Frontal white matter integrity in adults with Down syndrome with and without dementia. Neurobiology of Aging, 2014, 35, 1562-1569.	1.5	72
1366	Gaining insight of fetal brain development with diffusion MRI and histology. International Journal of Developmental Neuroscience, 2014, 32, 11-22.	0.7	75
1367	A flocking based method for brain tractography. Medical Image Analysis, 2014, 18, 515-530.	7.0	13
1369	Recursive calibration of the fiber response function for spherical deconvolution of diffusion MRI data. NeuroImage, 2014, 86, 67-80.	2.1	163
1370	Diffusion tensor tractography reveals disrupted structural connectivity in childhood absence epilepsy. Epilepsy Research, 2014, 108, 125-138.	0.8	79

#	ARTICLE	IF	CITATIONS
1371	Knowledge-based automated reconstruction of human brain white matter tracts using a path-finding approach with dynamic programming. <i>NeuroImage</i> , 2014, 88, 271-281.	2.1	11
1372	Automatic clustering of white matter fibers in brain diffusion MRI with an application to genetics. <i>NeuroImage</i> , 2014, 100, 75-90.	2.1	117
1373	Understanding brain networks and brain organization. <i>Physics of Life Reviews</i> , 2014, 11, 400-435.	1.5	294
1374	Clinical relevance of diffusion tensor imaging parameters in lumbar disco-radicular conflict. <i>Diagnostic and Interventional Imaging</i> , 2014, 95, 63-68.	1.8	21
1375	The critical need for defining preclinical biomarkers in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2014, 10, S196-212.	0.4	113
1376	Track Orientation Density Imaging (TODI) and Track Orientation Distribution (TOD) based tractography. <i>NeuroImage</i> , 2014, 94, 312-336.	2.1	37
1377	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. <i>Medical Image Analysis</i> , 2014, 18, 953-962.	7.0	29
1378	Magnetic Resonance Imaging Diffusion Tensor Tractography: Evaluation of Anatomic Accuracy of Different Fiber Tracking Software Packages. <i>World Neurosurgery</i> , 2014, 81, 144-150.	0.7	90
1379	DWI and complex brain network analysis predicts vascular cognitive impairment in spontaneous hypertensive rats undergoing executive function tests. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 167.	1.7	24
1381	Nonconventional MR techniques for imaging cerebral small vessel disease. , 0, , 168-179.		0
1382	DTI of the Visual Pathway - White Matter Tracts and Cerebral Lesions. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	10
1383	The Biological Basis of Diffusion Anisotropy. , 2014, , 155-183.		42
1384	Inferring Microstructural Information of White Matter from Diffusion MRI. , 2014, , 185-208.		2
1385	Degree of corticospinal tract damage correlates with motor function after stroke. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 891-899.	1.7	54
1386	Perpendicular fibre tracking for neural fibre bundle analysis using diffusion MRI. <i>International Journal of Bioinformatics Research and Applications</i> , 2014, 10, 75.	0.1	0
1387	Investigating the tradeoffs between spatial resolution and diffusion sampling for brain mapping with diffusion tractography: Time well spent?. <i>Human Brain Mapping</i> , 2014, 35, 5667-5685.	1.9	36
1388	Brain network analysis. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2014, 15, 30-38.	3.2	31
1389	Vectorial total variation regularisation of orientation distribution functions in diffusion weighted MRI. <i>International Journal of Bioinformatics Research and Applications</i> , 2014, 10, 110.	0.1	5

#	ARTICLE	IF	CITATIONS
1390	Whole-brain structural topology in adult attention-deficit/hyperactivity disorder: Preserved global "disturbed local network organization. <i>NeuroImage: Clinical</i> , 2015, 9, 506-512.	1.4	31
1391	iFiber: A brain tract visualizer for Android devices. , 2015, , .		2
1392	Longitudinal functional data analysis. <i>Stat</i> , 2015, 4, 212-226.	0.3	45
1393	Inflection Points in Magnetic Resonance Imaging Technology"35 Years of Collaborative Research and Development. <i>Investigative Radiology</i> , 2015, 50, 645-656.	3.5	1
1394	Brain white matter fiber estimation and tractography using Q-ball imaging and Bayesian MODEL. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S991-S1000.	0.4	0
1395	Describing the Neuron Axons Network of the Human Brain by Continuous Flow Models. , 2015, , 301-318.		0
1396	Intraoperative Functional Mapping and Monitoring during Glioma Surgery. <i>Neurologia Medico-Chirurgica</i> , 2015, 55, 1-13.	1.0	55
1397	Strategy of Surgical Resection for Glioma Based on Intraoperative Functional Mapping and Monitoring. <i>Neurologia Medico-Chirurgica</i> , 2015, 55, 383-398.	1.0	22
1398	Comparisons of Reproducibility and Mean Values of Diffusion Tensor Imaging"Derived Indices between Unipolar and Bipolar Diffusion Pulse Sequences. <i>Journal of Neuroimaging</i> , 2015, 25, 892-899.	1.0	5
1399	Functional and diffusion tensor magnetic resonance imaging of the sheep brain. <i>BMC Veterinary Research</i> , 2015, 11, 262.	0.7	23
1400	Relationship between cardiac diffusion tensor imaging parameters and anthropometrics in healthy volunteers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 2.	1.6	19
1401	Abnormal wiring of the connectome in adults with high-functioning autism spectrum disorder. <i>Molecular Autism</i> , 2015, 6, 65.	2.6	38
1402	Susceptibility tensor imaging of the kidney and its microstructural underpinnings. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1270-1281.	1.9	50
1403	Optimization of white matter fiber tractography with diffusional kurtosis imaging. <i>NMR in Biomedicine</i> , 2015, 28, 1245-1256.	1.6	29
1404	Fiber tracking of brain white matter based on graph theory. <i>Technology and Health Care</i> , 2015, 23, S3-S8.	0.5	1
1405	Biomimetic phantom for the validation of diffusion magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 299-305.	1.9	57
1406	A new template to study callosal growth shows specific growth in anterior and posterior regions of the corpus callosum in early childhood. <i>European Journal of Neuroscience</i> , 2015, 42, 1675-1684.	1.2	6
1407	Diffusion tensor imaging of the nigrostriatal fibers in Parkinson's disease. <i>Movement Disorders</i> , 2015, 30, 1229-1236.	2.2	97

#	ARTICLE	IF	CITATIONS
1408	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. <i>Journal of Neuroimaging</i> , 2015, 25, 875-882.	1.0	147
1409	NTUâ€”DSIâ€”122: A diffusion spectrum imaging template with high anatomical matching to the ICBMâ€”152 space. <i>Human Brain Mapping</i> , 2015, 36, 3528-3541.	1.9	52
1410	Altered integrity of the right arcuate fasciculus as a trait marker of schizophrenia: A sibling study using tractographyâ€”based analysis of the whole brain. <i>Human Brain Mapping</i> , 2015, 36, 1065-1076.	1.9	21
1411	Simultaneous Multislice Echo Planar Imaging With Blipped Controlled Aliasing in Parallel Imaging Results in Higher Acceleration. <i>Investigative Radiology</i> , 2015, 50, 456-463.	3.5	40
1412	The Structural Properties of Major White Matter Tracts in Strabismic Amblyopia. , 2015, 56, 5152.		63
1413	Whatâ€™s New in Traumatic Brain Injury: Update on Tracking, Monitoring and Treatment. <i>International Journal of Molecular Sciences</i> , 2015, 16, 11903-11965.	1.8	64
1414	Comparison of nine tractography algorithms for detecting abnormal structural brain networks in Alzheimerâ€™s disease. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 48.	1.7	115
1415	Unraveling the multiscale structural organization and connectivity of the human brain: the role of diffusion MRI. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 77.	0.9	26
1416	Validation of In utero Tractography of Human Fetal Commissural and Internal Capsule Fibers with Histological Structure Tensor Analysis. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 164.	0.9	34
1417	A review on functional and structural brain connectivity in numerical cognition. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 227.	1.0	82
1418	The Vulnerability to Suicidal Behavior is Associated with Reduced Connectivity Strength. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 632.	1.0	38
1419	Ontology-based approach for in vivo human connectomics: the medial Brodmann area 6 case study. <i>Frontiers in Neuroinformatics</i> , 2015, 9, 9.	1.3	3
1420	Boosting brain connectome classification accuracy in Alzheimer's disease using higher-order singular value decomposition. <i>Frontiers in Neuroscience</i> , 2015, 9, 257.	1.4	24
1421	A reeb graph approach to tractography. , 2015, , .		3
1422	An Example-Based Multi-Atlas Approach to Automatic Labeling of White Matter Tracts. <i>PLoS ONE</i> , 2015, 10, e0133337.	1.1	36
1423	Improved Framework for Tractography Reconstruction of the Optic Radiation. <i>PLoS ONE</i> , 2015, 10, e0137064.	1.1	39
1424	Application of Diffusion Tensor Imaging (DTI) Tractography as a Targeting Modality for Deep Brain Stimulation (DBS) of the Subthalamic Nucleus (STN). <i>Journal of the Nihon University Medical Association</i> , 2015, 74, 63-68.	0.0	1
1425	Analytical Solutions to Bloch NMR Flow Equation in Porous System: Future and Emerging Magnetic Resonance Computational Imaging for Medical and Biomedical Engineering. <i>Recent Patents and Topics on Imaging</i> , 2015, 5, 31-43.	0.1	0

#	ARTICLE	IF	CITATIONS
1426	Imaging of Cortical and White Matter Language Processing. <i>Seminars in Ultrasound, CT and MRI</i> , 2015, 36, 249-259.	0.7	15
1427	Sex differences in the corpus callosum in preschool-aged children with autism spectrum disorder. <i>Molecular Autism</i> , 2015, 6, 26.	2.6	62
1428	High-angular diffusion MRI in reward-based psychiatric disorders. , 2015, , 21-34.		1
1430	Schizophrenia and bipolar disorder: The road from similarities and clinical heterogeneity to neurobiological types. <i>Clinica Chimica Acta</i> , 2015, 449, 49-59.	0.5	26
1431	Callosal damage and cognitive deficits in chronic carbon monoxide intoxication: A diffusion tensor imaging study. <i>Journal of the Neurological Sciences</i> , 2015, 355, 101-107.	0.3	15
1432	Tract-based analysis of white matter degeneration in Alzheimer's disease. <i>Neuroscience</i> , 2015, 301, 79-89.	1.1	70
1433	Beyond the word and image: characteristics of a common meaning system for language and vision revealed by functional and structural imaging. <i>NeuroImage</i> , 2015, 106, 72-85.	2.1	41
1434	Probabilistic fiber tracking using a modified Lasso bootstrap method. , 2015, 2015, 943-946.		1
1435	Fetal Cerebral Magnetic Resonance Imaging Beyond Morphology. <i>Seminars in Ultrasound, CT and MRI</i> , 2015, 36, 465-475.	0.7	24
1436	MetaTracts - A method for robust extraction and visualization of carbon fiber bundles in fiber reinforced composites. , 2015, , .		11
1437	Multimodal Retrieval in the Medical Domain. <i>Lecture Notes in Computer Science</i> , 2015, , .	1.0	2
1438	White matter structural integrity differs between people with schizophrenia and healthy groups as a function of cognitive control. <i>Schizophrenia Research</i> , 2015, 169, 62-68.	1.1	9
1439	Matching Real Fabrics with Micro-Appearance Models. <i>ACM Transactions on Graphics</i> , 2015, 35, 1-26.	4.9	119
1440	The role of automatic computer-aided surgical trajectory planning in improving the expected safety of stereotactic neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1127-1140.	1.7	22
1441	Microstructural abnormalities in anterior callosal fibers and their relationship with cognitive function in major depressive disorder and bipolar disorder: A tract-specific analysis study. <i>Journal of Affective Disorders</i> , 2015, 174, 542-548.	2.0	52
1442	Does diffusion MRI tell us anything about the white matter? An overview of methods and pitfalls. <i>Schizophrenia Research</i> , 2015, 161, 133-141.	1.1	86
1443	COMMIT: Convex Optimization Modeling for Microstructure Informed Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 246-257.	5.4	188
1444	A Potential Biomarker in Sports-Related Concussion: Brain Functional Connectivity Alteration of the Default-Mode Network Measured with Longitudinal Resting-State fMRI over Thirty Days. <i>Journal of Neurotrauma</i> , 2015, 32, 327-341.	1.7	123

#	ARTICLE	IF	CITATIONS
1445	Connectomics: comprehensive approaches for whole-brain mapping. <i>Microscopy</i> (Oxford, England), 2015, 64, 57-67.	0.7	22
1446	Fiber estimation and tractography in diffusion MRI: Development of simulated brain images and comparison of multi-fiber analysis methods at clinical b-values. <i>NeuroImage</i> , 2015, 109, 341-356.	2.1	85
1447	Tractography From HARDI Using an Intrinsic Unscented Kalman Filter. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 298-305.	5.4	7
1448	Spatial mapping of structural and connectional imaging data for the developing human brain with diffusion tensor imaging. <i>Methods</i> , 2015, 73, 27-37.	1.9	29
1449	Diffusion tensor imaging of the auditory nerve in patients with long-term single-sided deafness. <i>Hearing Research</i> , 2015, 323, 1-8.	0.9	24
1450	Hyperconnectivity in juvenile myoclonic epilepsy: A network analysis. <i>NeuroImage: Clinical</i> , 2015, 7, 98-104.	1.4	56
1451	Informed constrained spherical deconvolution (ICSD). <i>Medical Image Analysis</i> , 2015, 24, 269-281.	7.0	36
1452	In vivo DTI tractography of the rat brain: an atlas of the main tracts in Paxinos space with histological comparison. <i>Magnetic Resonance Imaging</i> , 2015, 33, 296-303.	1.0	27
1453	Effects of rejecting diffusion directions on tensor-derived parameters. <i>NeuroImage</i> , 2015, 109, 160-170.	2.1	34
1454	Simultaneous Multi-Scale Diffusion Estimation and Tractography Guided by Entropy Spectrum Pathways. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1177-1193.	5.4	17
1455	Functional Additive Mixed Models. <i>Journal of Computational and Graphical Statistics</i> , 2015, 24, 477-501.	0.9	147
1456	Penalized function-on-function regression. <i>Computational Statistics</i> , 2015, 30, 539-568.	0.8	84
1457	The Uncinate Fasciculus as a Predictor of Conversion from Amnesic Mild Cognitive Impairment to Alzheimer Disease. <i>Journal of Neuroimaging</i> , 2015, 25, 748-753.	1.0	21
1459	Imaging white-matter pathways of the auditory system with diffusion imaging tractography. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2015, 129, 277-288.	1.0	11
1460	Anytime density-based clustering of complex data. <i>Knowledge and Information Systems</i> , 2015, 45, 319-355.	2.1	26
1461	Face processing in the brains of pre-school aged children measured with MEG. <i>NeuroImage</i> , 2015, 106, 317-327.	2.1	23
1462	DTI-based tractography of the arcuate fasciculus in patients with polymicrogyria and language disorders. <i>European Journal of Radiology</i> , 2015, 84, 2280-2286.	1.2	13
1463	Altered white matter in early visual pathways of humans with amblyopia. <i>Vision Research</i> , 2015, 114, 48-55.	0.7	51

#	ARTICLE	IF	CITATIONS
1464	Quantification of Corticospinal Tracts with Diffusion Tensor Imaging in Brainstem Surgery: Prognostic Value in 14 Consecutive Cases at 3T Magnetic Resonance Imaging. <i>World Neurosurgery</i> , 2015, 83, 1006-1014.	0.7	27
1465	Tract shape modeling detects changes associated with preterm birth and neuroprotective treatment effects. <i>NeuroImage: Clinical</i> , 2015, 8, 51-58.	1.4	15
1466	Contour Models for Descriptive Patient-Specific Neuro-Anatomical Modeling: Towards a Digital Brainstem Atlas. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015, , 199-211.	0.5	1
1467	A Higher-Order Tensor Vessel Tractography for Segmentation of Vascular Structures. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2172-2185.	5.4	62
1468	Comparing a diffusion tensor and non-tensor approach to white matter fiber tractography in chronic stroke. <i>NeuroImage: Clinical</i> , 2015, 7, 771-781.	1.4	69
1469	MRI and fMRI Optimizations and Applications. , 2015, , 183-190.		0
1470	Auditory Verbal Hallucinations and Brain Dysconnectivity in the Perisylvian Language Network: A Multimodal Investigation. <i>Schizophrenia Bulletin</i> , 2015, 41, 192-200.	2.3	53
1471	Glial Regulation of the Neuronal Connectome through Local and Long-Distant Communication. <i>Neuron</i> , 2015, 86, 374-386.	3.8	126
1472	Compromised white matter integrity in obesity. <i>Obesity Reviews</i> , 2015, 16, 273-281.	3.1	138
1473	A segmentation system based on clustering method for pediatric <scp>DTI</scp> images. <i>International Journal of Imaging Systems and Technology</i> , 2015, 25, 102-113.	2.7	0
1474	Detection of hand and leg motor tract injury using novel diffusion tensor MRI tractography in children with central motor dysfunction. <i>Magnetic Resonance Imaging</i> , 2015, 33, 895-902.	1.0	7
1475	Noninvasive Imaging of Tumor Burden and Molecular Pathways in Mouse Models of Cancer. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.top069930.	0.2	28
1476	Disrupted developmental organization of the structural connectome in fetuses with corpus callosum agenesis. <i>NeuroImage</i> , 2015, 111, 277-288.	2.1	63
1477	Diffusion tensor imaging “ Arcuate fasciculus and the importance for the neurosurgeon. <i>Clinical Neurology and Neurosurgery</i> , 2015, 132, 61-67.	0.6	3
1478	Diffusion Imaging with MR Tractography for Brain Tumor Surgery. <i>Medical Radiology</i> , 2015, , 179-228.	0.0	3
1479	Structure tensor analysis of serial optical coherence scanner images for mapping fiber orientations and tractography in the brain. <i>Journal of Biomedical Optics</i> , 2015, 20, 036003.	1.4	39
1480	Imaging White Matter Anatomy for Brain Tumor Surgery. , 2015, , 91-121.		2
1481	Handbook of Biomedical Imaging. , 2015, , .		10

#	ARTICLE	IF	CITATIONS
1482	MRI evaluation and safety in the developing brain. <i>Seminars in Perinatology</i> , 2015, 39, 73-104.	1.1	103
1483	Progesterone Is Not Effective in the Treatment of Traumatic Brain Injury. <i>Neurosurgery</i> , 2015, 76, N12-N13.	0.6	1
1484	Inherent Limitations of Tractography for Accurate Connectivity Maps. <i>Neurosurgery</i> , 2015, 76, N11-N12.	0.6	9
1485	Schizophrenia-like topological changes in the structural connectome of individuals with subclinical psychotic experiences. <i>Human Brain Mapping</i> , 2015, 36, 2629-2643.	1.9	66
1486	Heritability of brain network topology in 853 twins and siblings. , 2015, 2015, 449-453.		5
1487	MRI Tractography of Corticospinal Tract and Arcuate Fasciculus in High-Grade Gliomas Performed by Constrained Spherical Deconvolution: Qualitative and Quantitative Analysis. <i>American Journal of Neuroradiology</i> , 2015, 36, 1853-1858.	1.2	61
1488	Primary and secondary alterations of white matter connectivity in schizophrenia: A study on first-episode and chronic patients using whole-brain tractography-based analysis. <i>Schizophrenia Research</i> , 2015, 169, 54-61.	1.1	23
1489	Fiber Orientation and Compartment Parameter Estimation From Multi-Shell Diffusion Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2320-2332.	5.4	52
1490	The effect of Gibbs ringing artifacts on measures derived from diffusion MRI. <i>NeuroImage</i> , 2015, 120, 441-455.	2.1	94
1492	Machine Learning in Medical Imaging. <i>Lecture Notes in Computer Science</i> , 2015, , .	1.0	7
1493	Boosting classification accuracy of diffusion MRI derived brain networks for the subtypes of mild cognitive impairment using higher order singular value decomposition. , 2015, 2015, 131-135.		4
1494	Diffusion Tensor Imaging and Fiber Tractography in Children with Craniosynostosis Syndromes. <i>American Journal of Neuroradiology</i> , 2015, 36, 1558-1564.	1.2	18
1495	Identification of the Corticobulbar Tracts of the Tongue and Face Using Deterministic and Probabilistic DTI Fiber Tracking in Patients with Brain Tumor. <i>American Journal of Neuroradiology</i> , 2015, 36, 2036-2041.	1.2	30
1496	Asymmetrical white matter networks for attending to global versus local features. <i>Cortex</i> , 2015, 72, 54-64.	1.1	30
1497	Reconstruction of the arcuate fasciculus for surgical planning in the setting of peritumoral edema using two-tensor unscented Kalman filter tractography. <i>NeuroImage: Clinical</i> , 2015, 7, 815-822.	1.4	60
1498	Strengths and weaknesses of state of the art fiber tractography pipelines – A comprehensive in-vivo and phantom evaluation study using Tractometer. <i>Medical Image Analysis</i> , 2015, 26, 287-305.	7.0	63
1499	The DTI connectivity of the human claustrum. <i>Human Brain Mapping</i> , 2015, 36, 827-838.	1.9	109
1500	Arcuate fasciculus laterality by diffusion tensor imaging correlates with language laterality by functional MRI in preadolescent children. <i>Neuroradiology</i> , 2015, 57, 291-297.	1.1	41

#	ARTICLE	IF	CITATIONS
1501	Integrated functional neuronavigation-guided resection of small meningiomas of the atrium via the paramedian parieto-occipital approach. <i>Clinical Neurology and Neurosurgery</i> , 2015, 128, 47-52.	0.6	7
1503	Advances in MR imaging for cervical spondylotic myelopathy. <i>European Spine Journal</i> , 2015, 24, 197-208.	1.0	47
1504	Bimanual motor deficits in older adults predicted by diffusion tensor imaging metrics of corpus callosum subregions. <i>Brain Structure and Function</i> , 2015, 220, 273-290.	1.2	64
1505	Acceleration of high angular and spatial resolution diffusion imaging using compressed sensing with multichannel spiral data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 126-138.	1.9	45
1506	A selective review of structural connectivity abnormalities of schizophrenic patients at different stages of the disease. <i>Schizophrenia Research</i> , 2015, 161, 19-28.	1.1	155
1507	In vivo correlation between axon diameter and conduction velocity in the human brain. <i>Brain Structure and Function</i> , 2015, 220, 1777-1788.	1.2	133
1510	Asymmetry, connectivity, and segmentation of the arcuate fascicle in the human brain. <i>Brain Structure and Function</i> , 2015, 220, 1665-1680.	1.2	152
1511	Extrastriate projections in human optic radiation revealed by fMRI-informed tractography. <i>Brain Structure and Function</i> , 2015, 220, 2519-2532.	1.2	21
1512	Multimodality Neurological Data Visualization With Multi-VOI-Based DTI Fiber Dynamic Integration. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 293-303.	3.9	7
1513	Estimation of the Mean Axon Diameter and Intra-axonal Space Volume Fraction of the Human Corpus Callosum: Diffusion q-space Imaging with Low q-values. <i>Magnetic Resonance in Medical Sciences</i> , 2016, 15, 83-93.	1.1	8
1514	Critical Review and Comparison of Axonal Structures in MRI/DTI and Histology. , 2016, , 337-347.		1
1515	Application of a Novel Quantitative Tractography-based Analysis of Diffusion Tensor Imaging to Examine Fiber Bundle Length In Human Cerebral White Matter. <i>Technology and Innovation</i> , 2016, 18, 21-29.	0.2	3
1516	Diagnostic History of Traumatic Axonal Injury in Patients with Cerebral Concussion and Mild Traumatic Brain Injury. <i>Brain & Neurorehabilitation</i> , 2016, 9, .	0.4	15
1517	Abnormal organization of white matter networks in patients with subjective cognitive decline and mild cognitive impairment. <i>Oncotarget</i> , 2016, 7, 48953-48962.	0.8	38
1518	Using Tractography to Distinguish SWEDD from Parkinson's Disease Patients Based on Connectivity. <i>Parkinson's Disease</i> , 2016, 2016, 1-10.	0.6	10
1519	9 Diffusion Tensor Imaging. , 2016, , .		0
1520	The Disruption of Genucalcarine Tract in Occipital Neoplasm: A Diffusion Tensor Imaging Study. <i>Radiology Research and Practice</i> , 2016, 2016, 1-7.	0.6	0
1521	Age-Related Modifications of Diffusion Tensor Imaging Parameters and White Matter Hyperintensities as Inter-Dependent Processes. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 255.	1.7	40

#	ARTICLE	IF	CITATIONS
1522	Feasibility of Diffusion Tractography for the Reconstruction of Intra-Thalamic and Cerebello-Thalamic Targets for Functional Neurosurgery: A Multi-Vendor Pilot Study in Four Subjects. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 76.	0.9	25
1523	Merged Group Tractography Evaluation with Selective Automated Group Integrated Tractography. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 96.	0.9	14
1524	Studying Autism Spectrum Disorder with Structural and Diffusion Magnetic Resonance Imaging: A Survey. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 211.	1.0	81
1525	Diffantom: Whole-Brain Diffusion MRI Phantoms Derived from Real Datasets of the Human Connectome Project. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 4.	1.3	3
1526	Embarrassingly Parallel Acceleration of Global Tractography via Dynamic Domain Partitioning. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 25.	1.3	3
1527	Ensemble Tractography. <i>PLoS Computational Biology</i> , 2016, 12, e1004692.	1.5	101
1529	Neurological Complications and MRI. , 0, , .		0
1530	Diffusion Imaging Fiber Bundles. <i>Technology and Innovation</i> , 2016, 18, 31-37.	0.2	0
1531	Shape deformation measures for white matter fibers. , 2016, , .		0
1532	Arcuate fasciculus asymmetry has a hand in language function but not handedness. <i>Human Brain Mapping</i> , 2016, 37, 3297-3309.	1.9	39
1533	Individualized Map of White Matter Pathways. <i>Neurosurgery</i> , 2016, 79, 568-577.	0.6	33
1534	Gadolinium-enhancing Lesions Lead to Decreases in White Matter Tract Fractional Anisotropy in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2016, 26, 289-295.	1.0	7
1535	Aging-Resilient Associations between the Arcuate Fasciculus and Vocabulary Knowledge: Microstructure or Morphology?. <i>Journal of Neuroscience</i> , 2016, 36, 7210-7222.	1.7	27
1536	Structural brain MRI studies in eye diseases: are they clinically relevant? A review of current findings. <i>Acta Ophthalmologica</i> , 2016, 94, 113-121.	0.6	55
1537	Imaging analysis of Parkinson's disease patients using SPECT and tractography. <i>Scientific Reports</i> , 2016, 6, 38070.	1.6	22
1538	Fiber direction estimation, smoothing and tracking in diffusion MRI. <i>Annals of Applied Statistics</i> , 2016, 10, 1137-1156.	0.5	6
1539	Functional Regression with Mode-Sparsity Constraint. , 2016, , .		2
1540	An in vivo study of the orientation-dependent and independent components of transverse relaxation rates in white matter. <i>NMR in Biomedicine</i> , 2016, 29, 1780-1790.	1.6	33

#	ARTICLE	IF	CITATIONS
1541	The confinement tensor model improves characterization of diffusion-weighted magnetic resonance data with varied timing parameters. , 2016, , .		3
1542	Towards a simplified cardiac fiber architecture " Multiscale fiber merging. , 2016, , .		0
1543	Relationship between timed 25-foot walk and diffusion tensor imaging in multiple sclerosis. Multiple Sclerosis Journal - Experimental, Translational and Clinical, 2016, 2, 205521731665536.	0.5	7
1544	Resolving Fine Cardiac Structures in Rats with High-Resolution Diffusion Tensor Imaging. Scientific Reports, 2016, 6, 30573.	1.6	47
1545	Fiber Tracking in Traumatic Brain Injury: Comparison of 9 Tractography Algorithms. Lecture Notes in Computer Science, 2016, , 33-44.	1.0	0
1546	Myelination of the right parahippocampal cingulum is associated with physical activity in young healthy adults. Brain Structure and Function, 2016, 221, 4537-4548.	1.2	28
1547	Corticospinal tract modeling for neurosurgical planning by tracking through regions of peritumoral edema and crossing fibers using two-tensor unscented Kalman filter tractography. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1475-1486.	1.7	42
1548	Autotract: automatic cleaning and tracking of fibers. , 2016, 9784, .		5
1549	Global diffusion tractography by simulated annealing. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	2.5	1
1550	Accelerating Global Tractography Using Parallel Markov Chain Monte Carlo. Mathematics and Visualization, 2016, 2016, 121-130.	0.4	1
1551	Modern Methods for Interrogating the Human Connectome. Journal of the International Neuropsychological Society, 2016, 22, 105-119.	1.2	24
1552	Feasibility of nTMS-based DTI fiber tracking of language pathways in neurosurgical patients using a fractional anisotropy threshold. Journal of Neuroscience Methods, 2016, 267, 45-54.	1.3	36
1553	Task-free MRI predicts individual differences in brain activity during task performance. Science, 2016, 352, 216-220.	6.0	648
1554	Durably reducing transphobia: A field experiment on door-to-door canvassing. Science, 2016, 352, 220-224.	6.0	406
1555	Dorsal and ventral language pathways in persistent developmental stuttering. Cortex, 2016, 81, 79-92.	1.1	37
1557	Computational Diffusion MRI. Mathematics and Visualization, 2016, , .	0.4	2
1558	White matter abnormalities in the fornix are linked to cognitive performance in SZ but not in BD disorder: An exploratory analysis with DTI deterministic tractography. Journal of Affective Disorders, 2016, 201, 64-78.	2.0	22
1559	Mapping Brain Anatomical Connectivity Using Diffusion Magnetic Resonance Imaging: Structural connectivity of the human brain. IEEE Signal Processing Magazine, 2016, 33, 36-51.	4.6	15

#	ARTICLE	IF	CITATIONS
1560	Development of Tract-Specific White Matter Pathways During Early Reading Development in At-Risk Children and Typical Controls. <i>Cerebral Cortex</i> , 2017, 27, bhw095.	1.6	96
1561	White matter microstructural properties correlate with sensorimotor synchronization abilities. <i>NeuroImage</i> , 2016, 138, 1-12.	2.1	34
1562	Diffusion Imaging of Brain Tumors. , 2016, , 301-315.		0
1563	Fiber tracking: A qualitative and quantitative comparison between four different software tools on the reconstruction of major white matter tracts. <i>European Journal of Radiology Open</i> , 2016, 3, 153-161.	0.7	49
1564	DiffusionKit: A light one-stop solution for diffusion MRI data analysis. <i>Journal of Neuroscience Methods</i> , 2016, 273, 107-119.	1.3	51
1565	Hypertension and Stroke. , 2016, , .		3
1566	Detection of small colon bleeding in wireless capsule endoscopy videos. <i>Computerized Medical Imaging and Graphics</i> , 2016, 54, 16-26.	3.5	40
1567	A Bayesian approach to fiber orientation estimation guided by volumetric tract segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2016, 54, 35-47.	3.5	2
1568	Regional variation of white matter development in the cat brain revealed by ex vivo diffusion MR tractography. <i>International Journal of Developmental Neuroscience</i> , 2016, 54, 32-38.	0.7	7
1569	Effect of the Maximum Dose on White Matter Fiber Bundles Using Longitudinal Diffusion Tensor Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 696-705.	0.4	29
1570	Exploring the complementarity of THz pulse imaging and DCE-MRIs: Toward a unified multi-channel classification and a deep learning framework. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 137, 87-114.	2.6	16
1571	Use of deep brain stimulation for major affective disorders. <i>Experimental and Therapeutic Medicine</i> , 2016, 12, 2371-2376.	0.8	4
1572	Neuroeconomics. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2016, , .	0.1	10
1573	Diffusion Tensor Imaging (DTI) and Tractography. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2016, , 411-442.	0.1	2
1574	The Lamellar Structure of the Brain Fiber Pathways. <i>Neural Computation</i> , 2016, 28, 2533-2556.	1.3	14
1575	Imaging the visual system: from the eye to the brain. <i>Ophthalmic and Physiological Optics</i> , 2016, 36, 213-217.	1.0	2
1576	Charting Frontotemporal Dementia: From Genes to Networks. <i>Journal of Neuroimaging</i> , 2016, 26, 16-27.	1.0	9
1577	Longitudinal diffusion tensor imaging of the rat brain after hexachlorophene exposure. <i>NeuroToxicology</i> , 2016, 56, 225-232.	1.4	10

#	ARTICLE	IF	CITATIONS
1578	Fractal dimension and lacunarity of tractography images of the human brain. <i>Physica Medica</i> , 2016, 32, 333-334.	0.4	0
1579	Combined DTI-fMRI Analysis for a Quantitative Assessment of Connections Between WM Bundles and Their Peripheral Cortical Fields in Verbal Fluency. <i>Brain Topography</i> , 2016, 29, 814-823.	0.8	6
1580	Multimodal assessment of hemispheric lateralization for language and its relevance for behavior. <i>NeuroImage</i> , 2016, 142, 351-370.	2.1	23
1581	Rostro-caudal Architecture of the Frontal Lobes in Humans. <i>Cerebral Cortex</i> , 2017, 27, 4033-4047.	1.6	53
1582	Constituents and functional implications of the rat default mode network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4541-7.	3.3	90
1583	Cardiac fiber tracking using adaptive particle filtering based on tensor rotation invariant in MRI. <i>Physics in Medicine and Biology</i> , 2016, 61, 1888-1903.	1.6	1
1584	Magnetic resonance neurography in the diagnosis of neuropathies of the lumbosacral plexus: a pictorial review. <i>Clinical Imaging</i> , 2016, 40, 1118-1130.	0.8	19
1585	Classical testing in functional linear models. <i>Journal of Nonparametric Statistics</i> , 2016, 28, 813-838.	0.4	40
1586	Swarm tracking approach for global probabilistic tractography with spherical deconvolution. , 2016, , .		0
1587	Species Preserved and Exclusive Structural Connections Revealed by Sparse CCA. <i>Lecture Notes in Computer Science</i> , 2016, , 123-131.	1.0	0
1588	Translational Biomedical Informatics. <i>Advances in Experimental Medicine and Biology</i> , 2016, , .	0.8	1
1589	Medical Imaging Informatics. <i>Advances in Experimental Medicine and Biology</i> , 2016, 939, 167-224.	0.8	9
1590	Fiber Orientation Estimation Using Nonlocal and Local Information. <i>Lecture Notes in Computer Science</i> , 2016, , 97-105.	1.0	0
1591	Discriminative fusion of multiple brain networks for early mild cognitive impairment detection. , 2016, , .		5
1592	Anatomical and Functional Brain Network Architecture in Schizophrenia. , 2016, , 313-336.		1
1593	Motion immune diffusion imaging using augmented <sc>MUSE</sc> for high-resolution multi-shot <sc>EPI</sc>. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 639-652.	1.9	39
1594	Radial q-space sampling for DSI. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 769-780.	1.9	16
1595	Visually Exploring Differences of DTI Fiber Models. <i>Lecture Notes in Computer Science</i> , 2016, , 333-344.	1.0	1

#	ARTICLE	IF	CITATIONS
1596	Integral curves from noisy diffusion MRI data with closed-form uncertainty estimates. <i>Statistical Inference for Stochastic Processes</i> , 2016, 19, 289-319.	0.4	5
1597	The 100 most-cited articles in neuroimaging: A bibliometric analysis. <i>NeuroImage</i> , 2016, 139, 149-156.	2.1	70
1598	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. <i>Journal of Neuroscience</i> , 2016, 36, 6758-6770.	1.7	318
1599	15 Future Applications of Diffusion Weighted Imaging: Diffusional Kurtosis and Other Nongaussian Diffusion Techniques. , 2016, , .		0
1600	Estimation of fiber orientations using neighborhood information. <i>Medical Image Analysis</i> , 2016, 32, 243-256.	7.0	19
1601	Dentatorubrothalamic tract localization with postmortem MR diffusion tractography compared to histological 3D reconstruction. <i>Brain Structure and Function</i> , 2016, 221, 3487-3501.	1.2	43
1602	Diffusion tensor imaging of peripheral nerves in non-fixed post-mortem subjects. <i>Forensic Science International</i> , 2016, 263, 139-146.	1.3	14
1603	Diffusion Magnetic Resonance Imaging in Brain Tumors. , 2016, , 273-300.		0
1604	Plasticity of left perisylvian white-matter tracts is associated with individual differences in math learning. <i>Brain Structure and Function</i> , 2016, 221, 1337-1351.	1.2	49
1605	Accelerated magnetic resonance diffusion tensor imaging of the median nerve using simultaneous multi-slice echo planar imaging with blipped CAIPIRINHA. <i>European Radiology</i> , 2016, 26, 1921-1928.	2.3	18
1606	Human brain networks function in connectome-specific harmonic waves. <i>Nature Communications</i> , 2016, 7, 10340.	5.8	270
1607	Safe Resection of Gliomas of the Dominant Angular Gyrus Availing of Preoperative fMRI and Intraoperative DTI: Preliminary Series and Surgical Technique. <i>World Neurosurgery</i> , 2016, 87, 627-639.	0.7	42
1608	Intraventricular Meningioma: Technical Nuances in Surgical Management. <i>World Neurosurgery</i> , 2016, 88, 526-537.	0.7	23
1609	Visualizing Tensor Normal Distributions at Multiple Levels of Detail. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2016, 22, 975-984.	2.9	15
1610	Trade-off between angular and spatial resolutions in in vivo fiber tractography. <i>NeuroImage</i> , 2016, 129, 117-132.	2.1	27
1611	Frontal networks in adults with autism spectrum disorder. <i>Brain</i> , 2016, 139, 616-630.	3.7	118
1612	Diffusion Tensor Imaging of Healthy and Infarcted Porcine Hearts: Study on the Impact of Formalin Fixation. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2016, 47, 74-85.	0.2	11
1613	Brain Connectomics of Visual-Motor Deficits in Children with Developmental Coordination Disorder. <i>Journal of Pediatrics</i> , 2016, 169, 21-27.e2.	0.9	46

#	ARTICLE	IF	CITATIONS
1614	Macrostructural and Microstructural Brain Lesions Relate to Gait Pathology in Children With Cerebral Palsy. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 817-833.	1.4	17
1615	View-Dependent Streamline Deformation and Exploration. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2016, 22, 1788-1801.	2.9	8
1616	Mapping the Orientation of White Matter Fiber Bundles: A Comparative Study of Diffusion Tensor Imaging, Diffusional Kurtosis Imaging, and Diffusion Spectrum Imaging. <i>American Journal of Neuroradiology</i> , 2016, 37, 1216-1222.	1.2	50
1617	Tract Orientation and Angular Dispersion Deviation Indicator (TOADDI): A framework for single-subject analysis in diffusion tensor imaging. <i>NeuroImage</i> , 2016, 126, 151-163.	2.1	3
1618	DTI Analysis Methods: Fibre Tracking and Connectivity. , 2016, , 205-228.		3
1619	White matter integrity of cerebellar-cortical tracts in reading impaired children: A probabilistic tractography study. <i>Brain and Language</i> , 2016, 161, 45-56.	0.8	14
1620	Robust MR-based approaches to quantifying white matter structure and structure/function alterations in Huntington's disease. <i>Journal of Neuroscience Methods</i> , 2016, 265, 2-12.	1.3	17
1621	Distinct displacements of the optic radiation based on tumor location revealed using preoperative diffusion tensor imaging. <i>Journal of Neurosurgery</i> , 2016, 124, 1343-1352.	0.9	14
1622	Advances and Technical Standards in Neurosurgery. <i>Advances and Technical Standards in Neurosurgery</i> , 2016, , .	0.2	2
1623	Role of Diffusion Tensor MR Imaging in Degenerative Cervical Spine Disease: a Review of the Literature. <i>Clinical Neuroradiology</i> , 2016, 26, 265-276.	1.0	17
1625	The Arcuate Fasciculus and Language Development in a Cohort of Pediatric Patients with Malformations of Cortical Development. <i>American Journal of Neuroradiology</i> , 2016, 37, 169-175.	1.2	17
1626	Open Environment for Multimodal Interactive Connectivity Visualization and Analysis. <i>Brain Connectivity</i> , 2016, 6, 109-121.	0.8	21
1627	Regularisation, interpolation and visualisation of diffusion tensor images using non-Euclidean statistics. <i>Journal of Applied Statistics</i> , 2016, 43, 943-978.	0.6	13
1628	Analysis of correlation between white matter changes and functional responses in thalamic stroke: a DTI & EEG study. <i>Brain Imaging and Behavior</i> , 2016, 10, 424-436.	1.1	13
1629	Magnetic resonance imaging of the subthalamic nucleus for deep brain stimulation. <i>Journal of Neurosurgery</i> , 2016, 124, 96-105.	0.9	68
1630	The frontal aslant tract underlies speech fluency in persistent developmental stuttering. <i>Brain Structure and Function</i> , 2016, 221, 365-381.	1.2	131
1631	Subcomponents and connectivity of the superior longitudinal fasciculus in the human brain. <i>Brain Structure and Function</i> , 2016, 221, 2075-2092.	1.2	200
1632	Visual exploration of HARDI fibers with probabilistic tracking. <i>Information Sciences</i> , 2016, 330, 483-494.	4.0	3

#	ARTICLE	IF	CITATIONS
1633	Shared Microstructural Features of Behavioral and Substance Addictions Revealed in Areas of Crossing Fibers. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 188-195.	1.1	70
1634	Connectivity between the central nucleus of the amygdala and the bed nucleus of the stria terminalis in the non-human primate: neuronal tract tracing and developmental neuroimaging studies. <i>Brain Structure and Function</i> , 2017, 222, 21-39.	1.2	70
1635	Diffusion tensor imaging in abdominal organs. <i>NMR in Biomedicine</i> , 2017, 30, e3434.	1.6	16
1636	Interactive Exploration and Visualization Using MetaTracts extracted from Carbon Fiber Reinforced Composites. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2017, 23, 1988-2002.	2.9	5
1637	Robust diffusion tensor imaging by spatiotemporal encoding: Principles and in vivo demonstrations. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1124-1133.	1.9	25
1638	Pubovisceralis Muscle Fiber Architecture Determination: Comparison Between Biomechanical Modeling and Diffusion Tensor Imaging. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1255-1265.	1.3	11
1640	Functional MRI vs. navigated TMS to optimize M1 seed volume delineation for DTI tractography. A prospective study in patients with brain tumours adjacent to the corticospinal tract. <i>NeuroImage: Clinical</i> , 2017, 13, 297-309.	1.4	44
1641	Alterations of white matter structural networks in patients with non-neuropsychiatric systemic lupus erythematosus identified by probabilistic tractography and connectivity-based analyses. <i>NeuroImage: Clinical</i> , 2017, 13, 349-360.	1.4	14
1642	Effect of hierarchically aligned fibrin hydrogel in regeneration of spinal cord injury demonstrated by tractography: A pilot study. <i>Scientific Reports</i> , 2017, 7, 40017.	1.6	25
1643	Functional Magnetic Resonance Imaging (fMRI), Pre-intraoperative Tractography in Neurosurgery: The Experience of Sant'Andrea Rome University Hospital. <i>Acta Neurochirurgica Supplementum</i> , 2017, 124, 241-250.	0.5	17
1644	The effect of diffusion gradient direction number on corticospinal tractography in the human brain: an along-tract analysis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 265-280.	1.1	4
1645	3D-SSF: A bio-inspired approach for dynamic multi-subject clustering of white matter tracts. <i>Computers in Biology and Medicine</i> , 2017, 83, 10-21.	3.9	2
1646	Fundamentals of diffusion MRI physics. <i>NMR in Biomedicine</i> , 2017, 30, e3602.	1.6	84
1647	Toddlers later diagnosed with autism exhibit multiple structural abnormalities in temporal corpus callosum fibers. <i>Cortex</i> , 2017, 97, 291-305.	1.1	40
1649	Anisotropic finite element models for brain injury prediction: the sensitivity of axonal strain to white matter tract inter-subject variability. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1269-1293.	1.4	64
1650	Track-weighted imaging methods: extracting information from a streamlines tractogram. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 317-335.	1.1	46
1651	Variability of Ponto-cerebellar Fibers by Diffusion Tensor Imaging in Diverse Brain Malformations. <i>Journal of Child Neurology</i> , 2017, 32, 271-285.	0.7	5
1652	Evaluations of diffusion tensor image registration based on fiber tractography. <i>BioMedical Engineering OnLine</i> , 2017, 16, 9.	1.3	16

#	ARTICLE	IF	CITATIONS
1653	The separate effects of lipids and proteins on brain MRI contrast revealed through tissue clearing. <i>NeuroImage</i> , 2017, 156, 412-422.	2.1	53
1654	Diffusion tensor imaging tractography study in bipolar disorder patients compared to first-degree relatives and healthy controls. <i>Psychiatry and Clinical Neurosciences</i> , 2017, 71, 706-715.	1.0	21
1655	Effects of sensitivity to life stress on uncinate fasciculus segments in early adolescence. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 1460-1469.	1.5	43
1656	Versatile, robust, and efficient tractography with constrained higher-order tensor fODFs. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1257-1270.	1.7	16
1657	Connectome imaging for mapping human brain pathways. <i>Molecular Psychiatry</i> , 2017, 22, 1230-1240.	4.1	100
1658	Disrupted topological organization of structural networks revealed by probabilistic diffusion tractography in Tourette syndrome children. <i>Human Brain Mapping</i> , 2017, 38, 3988-4008.	1.9	42
1659	Empirical consideration of the effects of acquisition parameters and analysis model on clinically feasible q-ball imaging. <i>Magnetic Resonance Imaging</i> , 2017, 40, 62-74.	1.0	7
1660	Abnormalities of brain neural circuits related to obesity: A Diffusion Tensor Imaging study. <i>Magnetic Resonance Imaging</i> , 2017, 37, 116-121.	1.0	60
1661	Neuroimaging of Chronic Pain. , 2017, , 171-214.		2
1662	Age-related changes in structural connectivity are improved using subject-specific thresholding. <i>Journal of Neuroscience Methods</i> , 2017, 288, 45-56.	1.3	5
1663	The Role of the Corpus Callosum in Pediatric Dysphagia: Preliminary Findings from a Diffusion Tensor Imaging Study in Children with Unilateral Spastic Cerebral Palsy. <i>Dysphagia</i> , 2017, 32, 703-713.	1.0	20
1664	Computational Anatomy Based on Whole Body Imaging. , 2017, , .		9
1665	3D anatomy of cerebellar peduncles based on fibre microdissection and a demonstration with tractography. <i>NeurocirugÅa (English Edition)</i> , 2017, 28, 111-123.	0.1	2
1666	Semi-local tractography strategies using neighborhood information. <i>Medical Image Analysis</i> , 2017, 38, 165-183.	7.0	2
1667	How does passive lengthening change the architecture of the human medial gastrocnemius muscle?. <i>Journal of Applied Physiology</i> , 2017, 122, 727-738.	1.2	47
1668	A systematic evaluation of intraoperative white matter tract shift in pediatric epilepsy surgery using high-field MRI and probabilistic high angular resolution diffusion imaging tractography. <i>Journal of Neurosurgery: Pediatrics</i> , 2017, 19, 592-605.	0.8	22
1669	White matter and cortical changes in atypical parkinsonisms: A multimodal quantitative MR study. <i>Parkinsonism and Related Disorders</i> , 2017, 39, 44-51.	1.1	26
1670	Extracellular matrix directions estimation of the heart on micro-focus x-ray CT volumes. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
1671	Preoperative Prediction of Location and Shape of Facial Nerve in Patients with Large Vestibular Schwannomas Using Diffusion Tensor Imaging-Based Fiber Tracking. <i>World Neurosurgery</i> , 2017, 99, 70-78.	0.7	30
1672	Connectomic correlates of response to treatment in first-episode psychosis. <i>Brain</i> , 2017, 140, 487-496.	3.7	47
1673	A novel measure of reliability in Diffusion Tensor Imaging after data rejections due to subject motion. <i>NeuroImage</i> , 2017, 147, 57-65.	2.1	11
1674	Tractography in the clinics: Implementing a pipeline to characterize early brain development. <i>NeuroImage: Clinical</i> , 2017, 14, 629-640.	1.4	6
1675	Magnetic resonance microdynamic imaging reveals distinct tissue microenvironments. <i>NeuroImage</i> , 2017, 163, 183-196.	2.1	52
1676	“Whose atlas I use, his song I sing”™ The impact of anatomical atlases on fiber tract contributions to cognitive deficits after stroke. <i>NeuroImage</i> , 2017, 163, 301-309.	2.1	23
1677	Ventricular myocardium development and the role of connexins in the human fetal heart. <i>Scientific Reports</i> , 2017, 7, 12272.	1.6	32
1678	Strength of Temporal White Matter Pathways Predicts Semantic Learning. <i>Journal of Neuroscience</i> , 2017, 37, 11101-11113.	1.7	43
1679	Contralateral cortico-ponto-cerebellar pathways reconstruction in humans in vivo: implications for reciprocal cerebro-cerebellar structural connectivity in motor and non-motor areas. <i>Scientific Reports</i> , 2017, 7, 12841.	1.6	152
1680	Tracting the neural basis of music: Deficient structural connectivity underlying acquired amusia. <i>Cortex</i> , 2017, 97, 255-273.	1.1	25
1681	Edge Detection in Diffusion Weighted MRI Using a Tangent Curve Similarity Metric. <i>Mathematics and Visualization</i> , 2017, , 311-330.	0.4	0
1682	Integrative Structural Brain Network Analysis in Diffusion Tensor Imaging. <i>Brain Connectivity</i> , 2017, 7, 331-346.	0.8	34
1683	White matter fiber integrity of the saccadic eye movement network differs between schizophrenia and healthy groups. <i>Psychophysiology</i> , 2017, 54, 1967-1977.	1.2	3
1684	Long-term effects of radiation therapy on white matter of the corpus callosum: a diffusion tensor imaging study in children. <i>Pediatric Radiology</i> , 2017, 47, 1809-1816.	1.1	23
1685	Pathways of the inferior frontal occipital fasciculus in overt speech and reading. <i>Neuroscience</i> , 2017, 364, 93-106.	1.1	29
1686	Multidimensional encoding of brain connectomes. <i>Scientific Reports</i> , 2017, 7, 11491.	1.6	33
1687	Learning-based structurally-guided construction of resting-state functional correlation tensors. <i>Magnetic Resonance Imaging</i> , 2017, 43, 110-121.	1.0	17
1688	DTI measures identify mild and moderate TBI cases among patients with complex health problems: A receiver operating characteristic analysis of U.S. veterans. <i>NeuroImage: Clinical</i> , 2017, 16, 1-16.	1.4	27

#	ARTICLE	IF	CITATIONS
1689	In utero diffusion tensor imaging of the fetal brain: A reproducibility study. <i>NeuroImage: Clinical</i> , 2017, 15, 601-612.	1.4	33
1690	Magnetic Resonance Imaging of the Brain of a Monotreme, the Short-Beaked Echidna (<i>Tachyglossus</i>) Tj ETQq1 1 0.784314 rgBT /Ove	0.9	4
1691	Ax<scp>T</scp>ract: Toward microstructure informed tractography. <i>Human Brain Mapping</i> , 2017, 38, 5485-5500.	1.9	47
1692	Tractography-based score for learning Effective Connectivity from Multimodal imaging data using dynamic Bayesian networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 65, 1-1.	2.5	9
1693	Multi-task Function-on-function Regression with Co-grouping Structured Sparsity. , 2017, , .		3
1694	Machine learning shows association between genetic variability in <i>PPARG</i> and cerebral connectivity in preterm infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13744-13749.	3.3	29
1695	Analysis of structural connectivity on progression of Alzheimer's disease using diffusion tensor imaging. , 2017, , .		2
1696	White matter tractography for neurosurgical planning: A topography-based review of the current state of the art. <i>NeuroImage: Clinical</i> , 2017, 15, 659-672.	1.4	162
1697	Weighted Mean of Signal Intensity for Unbiased Fiber Tracking of Skeletal Muscles. <i>Investigative Radiology</i> , 2017, 52, 488-497.	3.5	5
1698	Spaceflight-induced neuroplasticity in humans as measured by MRI: what do we know so far?. <i>Npj Microgravity</i> , 2017, 3, 2.	1.9	43
1699	Diffusion Magnetic Resonance Imaging in Diffuse Low-Grade Gliomas. , 2017, , 375-410.		0
1700	Scale-integrated Network Hubs of the White Matter Structural Network. <i>Scientific Reports</i> , 2017, 7, 2449.	1.6	2
1701	Performance of unscented Kalman filter tractography in edema: Analysis of the two-tensor model. <i>NeuroImage: Clinical</i> , 2017, 15, 819-831.	1.4	37
1702	Fiberprint: A subject fingerprint based on sparse code pooling for white matter fiber analysis. <i>NeuroImage</i> , 2017, 158, 242-259.	2.1	39
1703	Magnetic resonance imaging and computed tomography as tools for the investigation of sperm whale (<i>Physeter macrocephalus</i>) teeth and eye. <i>Acta Veterinaria Scandinavica</i> , 2017, 59, 38.	0.5	4
1704	Pattern Classification of Medical Images: Computer Aided Diagnosis. <i>Health Information Science</i> , 2017, , .	0.3	4
1705	Preoperative automated fibre quantification predicts postoperative seizure outcome in temporal lobe epilepsy. <i>Brain</i> , 2017, 140, 68-82.	3.7	96
1706	Disentangling micro from mesostructure by diffusion MRI: A Bayesian approach. <i>NeuroImage</i> , 2017, 147, 964-975.	2.1	138

#	ARTICLE	IF	CITATIONS
1707	Decreased between-hemisphere connectivity strength and network efficiency in geriatric depression. <i>Human Brain Mapping</i> , 2017, 38, 53-67.	1.9	33
1708	Multi-shot sensitivity-encoded diffusion data recovery using structured low-rank matrix completion (MUSSELS). <i>Magnetic Resonance in Medicine</i> , 2017, 78, 494-507.	1.9	115
1709	Translational MR Neuroimaging of Stroke and Recovery. <i>Translational Stroke Research</i> , 2017, 8, 22-32.	2.3	47
1710	Successful Insular Glioma Removal in a Deaf Signer Patient During an Awake Craniotomy Procedure. <i>World Neurosurgery</i> , 2017, 98, 883.e1-883.e5.	0.7	10
1711	BundleMAP: Anatomically localized classification, regression, and hypothesis testing in diffusion MRI. <i>Pattern Recognition</i> , 2017, 63, 593-600.	5.1	15
1712	MRI shows thickening and altered diffusion in the median and ulnar nerves in multifocal motor neuropathy. <i>European Radiology</i> , 2017, 27, 2216-2224.	2.3	37
1713	Diffusion-weighted breast MRI: Clinical applications and emerging techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 337-355.	1.9	243
1714	Intraventricular Meningiomas: A Series of 42 Patients at a Single Institution and Literature Review. <i>World Neurosurgery</i> , 2017, 97, 178-188.	0.7	29
1715	Impaired Communication Between the Motor and Somatosensory Homunculus Is Associated With Poor Manual Dexterity in Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 81, 211-219.	0.7	77
1716	Fibre tract analysis using diffusion tensor imaging reveals aberrant connectivity in a rat model of depression. <i>World Journal of Biological Psychiatry</i> , 2017, 18, 615-623.	1.3	13
1717	Influence of fractional anisotropy thresholds on diffusion tensor imaging tractography of the periprostatic neurovascular bundle and selected pelvic tissues: do visualized tracts really represent nerves?. <i>Acta Radiologica</i> , 2017, 58, 472-480.	0.5	2
1718	Compromised Neurocircuitry in Chronic Blast-Related Mild Traumatic Brain Injury. <i>Human Brain Mapping</i> , 2017, 38, 352-369.	1.9	43
1719	Probabilistic tractography using Lasso bootstrap. <i>Medical Image Analysis</i> , 2017, 35, 544-553.	7.0	3
1720	Active delineation of Meyer's loop using oriented priors through MAGNETic tractography (MAGNET). <i>Human Brain Mapping</i> , 2017, 38, 509-527.	1.9	42
1721	Connectome-harmonic decomposition of human brain activity reveals dynamical repertoire re-organization under LSD. <i>Scientific Reports</i> , 2017, 7, 17661.	1.6	150
1723	A panel of clinical and neuropathological features of cerebrovascular disease through the novel neuroimaging methods. <i>Dementia E Neuropsychologia</i> , 2017, 11, 343-355.	0.3	4
1724	White Matter Structural Connectivity Is Not Correlated to Cortical Resting-State Functional Connectivity over the Healthy Adult Lifespan. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 144.	1.7	51
1725	Learning Morse Code Alters Microstructural Properties in the Inferior Longitudinal Fasciculus: A DTI Study. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 383.	1.0	9

#	ARTICLE	IF	CITATIONS
1726	Is Congenital Amusia a Disconnection Syndrome? A Study Combining Tract- and Network-Based Analysis. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 473.	1.0	16
1727	Diffusion Tensor Imaging Tractography Reveals Disrupted White Matter Structural Connectivity Network in Healthy Adults with Insomnia Symptoms. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 583.	1.0	38
1728	Fiberweb: Diffusion Visualization and Processing in the Browser. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 54.	1.3	7
1729	Bayesian Tractography Using Geometric Shape Priors. <i>Frontiers in Neuroscience</i> , 2017, 11, 483.	1.4	3
1730	Comparison of Diffusion-Weighted MRI Reconstruction Methods for Visualization of Cranial Nerves in Posterior Fossa Surgery. <i>Frontiers in Neuroscience</i> , 2017, 11, 554.	1.4	28
1731	Implantation of 3D Constructs Embedded with Oral Mucosa-Derived Cells Induces Functional Recovery in Rats with Complete Spinal Cord Transection. <i>Frontiers in Neuroscience</i> , 2017, 11, 589.	1.4	29
1732	Improving the Reliability of Network Metrics in Structural Brain Networks by Integrating Different Network Weighting Strategies into a Single Graph. <i>Frontiers in Neuroscience</i> , 2017, 11, 694.	1.4	48
1733	Complex Brain Network Analysis and Its Applications to Brain Disorders: A Survey. <i>Complexity</i> , 2017, 1-27.	0.9	90
1734	A Novel Richardson-Lucy Model with Dictionary Basis and Spatial Regularization for Isolating Isotropic Signals. <i>PLoS ONE</i> , 2017, 12, e0168864.	1.1	2
1735	Ultra-high field upper extremity peripheral nerve and non-contrast enhanced vascular imaging. <i>PLoS ONE</i> , 2017, 12, e0175629.	1.1	18
1736	Feasibility of Diffusion Tensor Imaging at 1.5T Using Multi-Band Echo Planar Acquisition. <i>Magnetic Resonance in Medical Sciences</i> , 2017, 16, 169-175.	1.1	5
1737	Glitch style visualization of disrupted neuronal connectivity in Parkinson's disease. , 2017, , .		0
1738	Neighborhood resolved fiber orientation distributions (NRFOD) in automatic labeling of white matter fiber pathways. <i>Medical Image Analysis</i> , 2018, 46, 130-145.	7.0	4
1739	Diffusion MRI-based cortical connectome reconstruction: dependency on tractography procedures and neuroanatomical characteristics. <i>Brain Structure and Function</i> , 2018, 223, 2269-2285.	1.2	60
1740	A Centerline-Based Model Morphing Algorithm for Patient-Specific Finite Element Modeling of the Left Ventricle. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1391-1398.	2.5	3
1741	On modeling. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3172-3193.	1.9	286
1742	Early bilateral and massive compromise of the frontal lobes. <i>NeuroImage: Clinical</i> , 2018, 18, 543-552.	1.4	11
1743	Diffusion tensor imaging using multiple coils for mouse brain connectomics. <i>NMR in Biomedicine</i> , 2018, 31, e3921.	1.6	3

#	ARTICLE	IF	CITATIONS
1744	When tractography meets tracer injections: a systematic study of trends and variation sources of diffusion-based connectivity. <i>Brain Structure and Function</i> , 2018, 223, 2841-2858.	1.2	63
1745	Alterations in the microstructure of white matter in children and adolescents with Tourette syndrome measured using tract-based spatial statistics and probabilistic tractography. <i>Cortex</i> , 2018, 104, 75-89.	1.1	24
1746	Computational Diffusion MRI. <i>Mathematics and Visualization</i> , 2018, , .	0.4	0
1747	Structural and Functional Connectivity Changes Beyond Visual Cortex in a Later Phase of Visual Perceptual Learning. <i>Scientific Reports</i> , 2018, 8, 5186.	1.6	17
1748	Post-mortem diffusion MRI of the cervical spine and its nerve roots. <i>Journal of Forensic Radiology and Imaging</i> , 2018, 12, 50-56.	1.2	5
1749	Anatomy of the dorsal default-mode network in conduct disorder: Association with callous-unemotional traits. <i>Developmental Cognitive Neuroscience</i> , 2018, 30, 87-92.	1.9	30
1750	Energy-aware acceleration on GPUs: Findings on a bioinformatics benchmark. <i>Sustainable Computing: Informatics and Systems</i> , 2018, 20, 88-101.	1.6	1
1751	Diffusion Tensor Imaging of Axonal and Myelin Changes in Classical Trigeminal Neuralgia. <i>World Neurosurgery</i> , 2018, 112, e597-e607.	0.7	24
1752	Mapping population-based structural connectomes. <i>NeuroImage</i> , 2018, 172, 130-145.	2.1	66
1753	Multicenter reproducibility study of diffusion MRI and fiber tractography of the lumbosacral nerves. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 951-963.	1.9	13
1754	Relationship between cerebrospinal fluid biomarkers and structural brain network properties in Parkinson's disease. <i>Movement Disorders</i> , 2018, 33, 431-439.	2.2	29
1755	Artificial Intelligence in Decision Support Systems for Diagnosis in Medical Imaging. <i>Intelligent Systems Reference Library</i> , 2018, , .	1.0	13
1756	Suprathreshold fiber cluster statistics: Leveraging white matter geometry to enhance tractography statistical analysis. <i>NeuroImage</i> , 2018, 171, 341-354.	2.1	26
1757	Analytic tractography: A closed-form solution for estimating local white matter connectivity with diffusion MRI. <i>NeuroImage</i> , 2018, 169, 473-484.	2.1	10
1758	Confirmation of a gyral bias in diffusion <scp>MRI</scp> fiber tractography. <i>Human Brain Mapping</i> , 2018, 39, 1449-1466.	1.9	105
1759	Intraoperative visualisation of functional structures facilitates safe frameless stereotactic biopsy in the motor eloquent regions of the brain. <i>British Journal of Neurosurgery</i> , 2018, 32, 372-380.	0.4	12
1760	Computer-Aided Prognosis: Accurate Prediction of Patients with Neurologic and Psychiatric Diseases via Multi-modal MRI Analysis. <i>Intelligent Systems Reference Library</i> , 2018, , 225-265.	1.0	1
1761	Sensorimotor Functional and Structural Networks after Intracerebral Stem Cell Grafts in the Ischemic Mouse Brain. <i>Journal of Neuroscience</i> , 2018, 38, 1648-1661.	1.7	41

#	ARTICLE	IF	CITATIONS
1762	Brain structural and functional asymmetry in human situs inversus totalis. <i>Brain Structure and Function</i> , 2018, 223, 1937-1952.	1.2	30
1763	The development of brain white matter microstructure. <i>NeuroImage</i> , 2018, 182, 207-218.	2.1	363
1764	Emerging Approaches to Neurocircuits in PTSD and TBI: Imaging the Interplay of Neural and Emotional Trauma. <i>Current Topics in Behavioral Neurosciences</i> , 2018, 38, 163-192.	0.8	15
1765	Normalized STEAM-based diffusion tensor imaging provides a robust assessment of muscle tears in football players: preliminary results of a new approach to evaluate muscle injuries. <i>European Radiology</i> , 2018, 28, 2882-2889.	2.3	26
1766	Mapping functional brain organization: Rethinking lesion symptom mapping and advanced neuroimaging methods in the understanding of human cognition. <i>Neuropsychologia</i> , 2018, 115, 1-4.	0.7	3
1767	Three-dimensional Cardiomyocytes Structure Revealed By Diffusion Tensor Imaging and Its Validation Using a Tissue-Clearing Technique. <i>Scientific Reports</i> , 2018, 8, 6640.	1.6	22
1768	Lesion mapping in acute stroke aphasia and its implications for recovery. <i>Neuropsychologia</i> , 2018, 115, 88-100.	0.7	56
1769	Rewiring the connectome: Evidence and effects. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 88, 51-62.	2.9	65
1770	Function-on-Function Regression with Mode-Sparsity Regularization. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2018, 12, 1-23.	2.5	1
1771	Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion MRI. <i>Magnetic Resonance Imaging</i> , 2018, 49, 145-158.	1.0	9
1772	Geometric Navigation of Axons in a Cerebral Pathway: Comparing dMRI with Tract Tracing and Immunohistochemistry. <i>Cerebral Cortex</i> , 2018, 28, 1219-1232.	1.6	20
1773	Tests of cortical parcellation based on white matter connectivity using diffusion tensor imaging. <i>NeuroImage</i> , 2018, 170, 321-331.	2.1	13
1774	Multimodal Functional and Structural Brain Connectivity Analysis in Autism: A Preliminary Integrated Approach With EEG, fMRI, and DTI. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 213-226.	2.6	23
1775	Modified structural network backbone in the contralesional hemisphere chronically after stroke in rat brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1642-1653.	2.4	23
1776	A systematic review of neuroimaging in delirium: predictors, correlates and consequences. <i>International Journal of Geriatric Psychiatry</i> , 2018, 33, 1458-1478.	1.3	53
1777	Adopting reciprocity theorem in deep transcranial magnetic stimulation problem to design an efficient single source coil array based on nerve cell direction. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 13-23.	1.6	5
1778	Simultaneous magnetic resonance diffusion and pseudo-diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2367-2378.	1.9	12
1779	Characterization of White Matter Tracts by Diffusion MR Tractography in Cat and Ferret that Have Similar Gyral Patterns. <i>Cerebral Cortex</i> , 2018, 28, 1338-1347.	1.6	11

#	ARTICLE	IF	CITATIONS
1780	Beyond the word and image: II- Structural and functional connectivity of a common semantic system. <i>NeuroImage</i> , 2018, 166, 185-197.	2.1	17
1781	Anatomical Cuts: Hierarchical clustering of tractography streamlines based on anatomical similarity. <i>NeuroImage</i> , 2018, 166, 32-45.	2.1	55
1782	Cardiac Diffusion MRI. , 2018, , 55-109.		2
1783	Whole brain white matter connectivity analysis using machine learning: An application to autism. <i>NeuroImage</i> , 2018, 172, 826-837.	2.1	70
1784	Development of short-range white matter in healthy children and adolescents. <i>Human Brain Mapping</i> , 2018, 39, 204-217.	1.9	27
1785	The Relationship between Lesion Severity Characterized by Diffusion Tensor Imaging and Motor Function in Chronic Canine Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 500-507.	1.7	24
1786	Reduced striato-cortical and inhibitory transcallosal connectivity in the motor circuit of Huntington's disease patients. <i>Human Brain Mapping</i> , 2018, 39, 54-71.	1.9	7
1787	Introducing axonal myelination in connectomics: A preliminary analysis of g-ratio distribution in healthy subjects. <i>NeuroImage</i> , 2018, 182, 351-359.	2.1	32
1788	Spontaneous mechanical and electrical activities of human calf musculature at rest assessed by repetitive single-shot diffusion-weighted MRI and simultaneous surface electromyography. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2784-2794.	1.9	14
1789	fMRT und Traktografie in der Gliomchirurgie. , 2018, , 113-120.		0
1790	White matter pathways in persistent developmental stuttering: Lessons from tractography. <i>Journal of Fluency Disorders</i> , 2018, 55, 68-83.	0.7	15
1791	Dictionary-based fiber orientation estimation with improved spatial consistency. <i>Medical Image Analysis</i> , 2018, 44, 41-53.	7.0	0
1792	Combining Improved Euler and Runge-Kutta 4th order for Tractography in Diffusion-Weighted MRI. <i>Biomedical Signal Processing and Control</i> , 2018, 41, 90-99.	3.5	3
1793	A probabilistic atlas of human brainstem pathways based on connectome imaging data. <i>NeuroImage</i> , 2018, 169, 227-239.	2.1	71
1794	Diffusion MRI of white matter microstructure development in childhood and adolescence: Methods, challenges and progress. <i>Developmental Cognitive Neuroscience</i> , 2018, 33, 161-175.	1.9	128
1795	Construction of Brain Structural Connectome Using PROPELLER Echo-Planar Diffusion Tensor Imaging with Probabilistic Tractography: Comparison with Conventional Imaging. <i>Journal of Medical and Biological Engineering</i> , 2018, 38, 625-633.	1.0	0
1796	The absence of restricted water pool in brain white matter. <i>NeuroImage</i> , 2018, 182, 398-406.	2.1	59
1797	Probabilistic 3D Contrast-Ultrasound Tractography Based on a Convective-Dispersion Finite-Element Scheme. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
1798	White Matter Tissue Quantification at Low b-Values Within Constrained Spherical Deconvolution Framework. <i>Frontiers in Neurology</i> , 2018, 9, 716.	1.1	36
1800	Diffusion Tensor Imaging of Tendons and Ligaments at Ultra-High Magnetic Fields. <i>Critical Reviews in Biomedical Engineering</i> , 2018, 46, 311-339.	0.5	5
1801	White Matter Fiber Tractography Using Nonuniform Rational B-Splines Curve Fitting. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-13.	1.1	3
1802	Diffusion tensor imaging and voxel-based morphometry reveal corticospinal tract involvement in the motor dysfunction of adult-onset myotonic dystrophy type 1. <i>Scientific Reports</i> , 2018, 8, 15592.	1.6	13
1803	Mapping fine-scale anatomy of gray matter, white matter, and trigeminal-root region applying spherical deconvolution to high-resolution 7-T diffusion MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 701-713.	1.1	2
1804	Atypical White Matter Connectivity in Dyslexic Readers of a Fairly Transparent Orthography. <i>Frontiers in Psychology</i> , 2018, 9, 1147.	1.1	10
1805	3D Polarized Light Imaging Portrayed: Visualization of Fiber Architecture Derived from 3D-PLI. , 0, , .		5
1806	Integrative Analysis of Patient Health Records and Neuroimages via Memory-Based Graph Convolutional Network. , 2018, , .		8
1807	Diffusion-Tensor Imaging Versus Digitization in Reconstructing the Masseter Architecture. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	9
1808	On Quantifying Local Geometric Structures of Fiber Tracts. <i>Lecture Notes in Computer Science</i> , 2018, , 392-400.	1.0	1
1809	Retinothalamic White Matter Abnormalities in Amblyopia. , 2018, 59, 921.		24
1810	Contrast-enhanced ultrasound tractography for 3D vascular imaging of the prostate. <i>Scientific Reports</i> , 2018, 8, 14640.	1.6	8
1811	Network Models in Neuroimaging: A Survey of Multimodal Applications. <i>Fundamenta Informaticae</i> , 2018, 163, 63-91.	0.3	1
1812	Symmetry-Based Analysis of Diffusion MRI for the Detection of Brain Impairments. , 2018, , .		0
1813	Diffusion sensitivity enhancement filter for raw DWIs. <i>IET Computer Vision</i> , 2018, 12, 950-956.	1.3	0
1814	Multi-unit relations among neural, self-report, and behavioral correlates of emotion regulation in comorbid depression and obesity. <i>Scientific Reports</i> , 2018, 8, 14032.	1.6	6
1815	Effect of androgen deprivation and radiation therapy on MRI fiber tractography in prostate cancer: can we assess treatment response on imaging?. <i>British Journal of Radiology</i> , 2019, 92, 20170170.	1.0	1
1816	Case series of trigonal meningiomas. <i>Neurologia I Neurochirurgia Polska</i> , 2018, 52, 606-611.	0.6	3

#	ARTICLE	IF	CITATIONS
1817	Early changes in white matter predict intellectual outcome in children treated for posterior fossa tumors. <i>NeuroImage: Clinical</i> , 2018, 20, 697-704.	1.4	15
1818	Penalized Geodesic Tractography for Mitigating Gyral Bias. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 12-19.	1.0	4
1819	Advances in MRI Methodology. <i>International Review of Neurobiology</i> , 2018, 141, 31-76.	0.9	124
1820	Analysis and correction of errors in DTI-based tractography due to diffusion gradient inhomogeneity. <i>Journal of Magnetic Resonance</i> , 2018, 296, 5-11.	1.2	27
1821	Current contribution of diffusion tensor imaging in the evaluation of diffuse axonal injury. <i>Arquivos De Neuro-Psiquiatria</i> , 2018, 76, 189-199.	0.3	25
1822	Population-averaged atlas of the macroscale human structural connectome and its network topology. <i>NeuroImage</i> , 2018, 178, 57-68.	2.1	409
1823	The diagnostic value of using combined MR diffusion tensor imaging parameters to differentiate between low- and high-grade meningioma. <i>British Journal of Radiology</i> , 2018, 91, 20180088.	1.0	18
1824	The cingulum bundle: Anatomy, function, and dysfunction. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 92, 104-127.	2.9	468
1825	Global and Widespread Local White Matter Abnormalities in Juvenile Neuronal Ceroid Lipofuscinosis. <i>American Journal of Neuroradiology</i> , 2018, 39, 1349-1354.	1.2	6
1826	Cognition and connectomes in nondementia idiopathic Parkinson's disease. <i>Network Neuroscience</i> , 2018, 2, 106-124.	1.4	12
1827	Association of Neuronal Injury in the Genu and Body of Corpus Callosum After Cranial Irradiation in Children With Impaired Cognitive Control: A Prospective Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 1234-1242.	0.4	27
1828	An anatomically curated fiber clustering white matter atlas for consistent white matter tract parcellation across the lifespan. <i>NeuroImage</i> , 2018, 179, 429-447.	2.1	146
1829	Tissue Anisotropy Modeling Using Soft Composite Materials. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-9.	0.5	30
1830	Models of Network Spread and Network Degeneration in Brain Disorders. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 788-797.	1.1	37
1831	Enhanced Topological Network Efficiency in Preschool Autism Spectrum Disorder: A Diffusion Tensor Imaging Study. <i>Frontiers in Psychiatry</i> , 2018, 9, 278.	1.3	22
1832	Investigation into local white matter abnormality in emotional processing and sensorimotor areas using an automatically annotated fiber clustering in major depressive disorder. <i>NeuroImage</i> , 2018, 181, 16-29.	2.1	34
1833	Volumetric assessment of spontaneous mechanical activities by simultaneous multi-slice MRI techniques with correlation to muscle fiber orientation. <i>NMR in Biomedicine</i> , 2018, 31, e3959.	1.6	3
1834	Re-examining age-related differences in white matter microstructure with free-water corrected diffusion tensor imaging. <i>Neurobiology of Aging</i> , 2018, 71, 161-170.	1.5	76

#	ARTICLE	IF	CITATIONS
1835	Human Thalamic-Prefrontal Peduncle Connectivity Revealed by Diffusion Spectrum Imaging Fiber Tracking. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 24.	0.9	16
1836	Understanding the Physiopathology Behind Axial and Radial Diffusivity Changes—What Do We Know?. <i>Frontiers in Neurology</i> , 2018, 9, 92.	1.1	297
1837	Age Related Changes in Topological Properties of Brain Functional Network and Structural Connectivity. <i>Frontiers in Neuroscience</i> , 2018, 12, 318.	1.4	17
1838	Development of Structural Covariance From Childhood to Adolescence: A Longitudinal Study in 22q11.2DS. <i>Frontiers in Neuroscience</i> , 2018, 12, 327.	1.4	16
1839	Resting-State Functional Magnetic Resonance Imaging and Probabilistic Diffusion Tensor Imaging Demonstrate That the Greatest Functional and Structural Connectivity in the Hand Motor Homunculus Occurs in the Area of the Thumb. <i>Brain Connectivity</i> , 2018, 8, 371-379.	0.8	6
1840	What We Know About the Brain Structure—Function Relationship. <i>Behavioral Sciences (Basel)</i> , 2018, 9, 98.	1.0	98
1841	Tracking and validation techniques for topographically organized tractography. <i>NeuroImage</i> , 2018, 181, 64-84.	2.1	21
1842	Network Neuroscience and Personality. <i>Personality Neuroscience</i> , 2018, 1, e14.	1.3	46
1844	Connectome-derived diffusion characteristics of the fornix in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2018, 19, 331-342.	1.4	19
1845	Radial diffusivity as an imaging biomarker for early diagnosis of non-demented amyotrophic lateral sclerosis. <i>European Radiology</i> , 2018, 28, 4940-4948.	2.3	11
1846	Neonatal Neuroimaging. , 2018, , 922-951.e5.		0
1847	Accelerated intermittent theta burst stimulation in major depression induces decreases in modularity: A connectome analysis. <i>Network Neuroscience</i> , 2019, 3, 157-172.	1.4	20
1848	Claustal structural connectivity and cognitive impairment in drug naïve Parkinson's disease. <i>Brain Imaging and Behavior</i> , 2019, 13, 933-944.	1.1	13
1849	Altered brain structural topological properties in type 2 diabetes mellitus patients without complications. <i>Journal of Diabetes</i> , 2019, 11, 129-138.	0.8	21
1850	Communicability disruption in Alzheimer's disease connectivity networks. <i>Journal of Complex Networks</i> , 2019, 7, 83-100.	1.1	26
1851	Extraversion and Neuroticism Related to Topological Efficiency in White Matter Network: An Exploratory Study Using Diffusion Tensor Imaging Tractography. <i>Brain Topography</i> , 2019, 32, 87-96.	0.8	5
1852	Modelling white matter with spherical deconvolution: How and why?. <i>NMR in Biomedicine</i> , 2019, 32, e3945.	1.6	127
1853	Generalized Mean Apparent Propagator MRI to Measure and Image Advective and Dispersive Flows in Medicine and Biology. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 11-20.	5.4	7

#	ARTICLE	IF	CITATIONS
1854	Structural properties of the ventral reading pathways are associated with morphological processing in adult English readers. <i>Cortex</i> , 2019, 116, 268-285.	1.1	29
1855	Overcoming Challenges of Cranial Nerve Tractography: A Targeted Review. <i>Neurosurgery</i> , 2019, 84, 313-325.	0.6	30
1857	Identifying Configurational Abnormalities in Alzheimer's Disease Progression Using Multi-View Structure Connectome. , 2019, , .		0
1858	The Relationship Between the Uncinate Fasciculus and Anxious Temperament Is Evolutionarily Conserved and Sexually Dimorphic. <i>Biological Psychiatry</i> , 2019, 86, 890-898.	0.7	16
1859	White matter cortico-striatal tracts predict apathy subtypes in Huntington's disease. <i>NeuroImage: Clinical</i> , 2019, 24, 101965.	1.4	27
1860	Association Between White Matter Microstructure and Verbal Fluency in Patients With Multiple Sclerosis. <i>Frontiers in Psychology</i> , 2019, 10, 1607.	1.1	29
1861	3D Convolutional Neural Network Segmentation of White Matter Tract Masks from MR Diffusion Anisotropy Maps. , 2019, , .		5
1862	Structural connectivity profile supports laterality of the salience network. <i>Human Brain Mapping</i> , 2019, 40, 5242-5255.	1.9	24
1863	Imaging Techniques for Neurosurgical Planning of Tumor Resection. , 2019, , 1105-1113.		0
1864	Joint modelling of diffusion MRI and microscopy. <i>NeuroImage</i> , 2019, 201, 116014.	2.1	19
1865	Associative white matter connecting the dorsal and ventral posterior human cortex. <i>Brain Structure and Function</i> , 2019, 224, 2631-2660.	1.2	51
1866	Brain structure changes induced by attention bias modification training. <i>Biological Psychology</i> , 2019, 146, 107736.	1.1	13
1867	Dimensionality reduction of diffusion MRI measures for improved tractometry of the human brain. <i>NeuroImage</i> , 2019, 200, 89-100.	2.1	84
1868	Pharmacokinetic Models of Convection-Enhanced Drug Delivery. , 2019, , 111-132.		0
1869	New insights into cortico-basal-cerebellar connectome: clinical and physiological considerations. <i>Brain</i> , 2019, 143, 396-406.	3.7	49
1870	A Multimodal Imaging Study in a Case of Bilateral Thalamic Damage With Multidomain Cognitive Impairment. <i>Frontiers in Neurology</i> , 2019, 10, 1048.	1.1	5
1871	The effect of spatial resolution on the reproducibility of diffusion imaging when controlled signal to noise ratio. <i>Biomedical Journal</i> , 2019, 42, 268-276.	1.4	8
1872	Tensor-valued diffusion encoding for diffusional variance decomposition (DIVIDE): Technical feasibility in clinical MRI systems. <i>PLoS ONE</i> , 2019, 14, e0214238.	1.1	67

#	ARTICLE	IF	CITATIONS
1873	Network curvature as a hallmark of brain structural connectivity. Nature Communications, 2019, 10, 4937.	5.8	49
1874	Brain white matter abnormalities and correlation with severity in amyotrophic lateral sclerosis: An atlas-based diffusion tensor imaging study. Journal of the Neurological Sciences, 2019, 405, 116438.	0.3	16
1875	Comparison of manual and automated fiber quantification tractography in patients with temporal lobe epilepsy. NeuroImage: Clinical, 2019, 24, 102024.	1.4	16
1876	Diffusion Tensor Imaging of the Kidney: Design and Evaluation of a Reliable Processing Pipeline. Scientific Reports, 2019, 9, 12789.	1.6	15
1877	Cuda Parallelization of Commit Framework for Efficient Microstructure-Informed Tractography. , 2019, , .		0
1878	The Seven Deadly Sins of Measuring Brain Structural Connectivity Using Diffusion MRI Streamlines Fibre-Tracking. Diagnostics, 2019, 9, 115.	1.3	63
1879	Optimizing the linear fascicle evaluation algorithm for many-core systems. , 2019, , .		3
1880	Microstructural white matter network-connectivity in individuals with psychotic disorder, unaffected siblings and controls. NeuroImage: Clinical, 2019, 23, 101931.	1.4	2
1881	Combined tract segmentation and orientation mapping for bundle-specific tractography. Medical Image Analysis, 2019, 58, 101559.	7.0	104
1882	Histopathology of diffusion imaging abnormalities in cerebral amyloid angiopathy. Neurology, 2019, 92, e933-e943.	1.5	32
1883	Intra-axonal diffusivity in brain white matter. NeuroImage, 2019, 189, 543-550.	2.1	71
1884	Network building and analysis in connectomics studies: a review of algorithms, databases and technologies. Network Modeling Analysis in Health Informatics and Bioinformatics, 2019, 8, 1.	1.2	9
1885	White matter asymmetries in human situs inversus totalis. Brain Structure and Function, 2019, 224, 2559-2565.	1.2	7
1886	White matter fiber analysis using kernel dictionary learning and sparsity priors. Pattern Recognition, 2019, 95, 83-95.	5.1	6
1887	Processing Pipeline for Atlas-Based Imaging Data Analysis of Structural and Functional Mouse Brain MRI (AIDAmri). Frontiers in Neuroinformatics, 2019, 13, 42.	1.3	39
1888	Supervised Classification of White Matter Fibers Based on Neighborhood Fiber Orientation Distributions Using an Ensemble of Neural Networks. Mathematics and Visualization, 2019, , 143-154.	0.4	3
1889	Innovative MRI Techniques in Neuroimaging Approaches for Cerebrovascular Diseases and Vascular Cognitive Impairment. International Journal of Molecular Sciences, 2019, 20, 2656.	1.8	18
1891	Statistical Preliminary. , 2019, , 1-26.		0

#	ARTICLE	IF	CITATIONS
1892	Brain Network Nodes and Edges. , 2019, , 27-60.		2
1894	Correlation Networks. , 2019, , 76-107.		0
1895	Big Brain Network Data. , 2019, , 108-128.		0
1896	Network Simulations. , 2019, , 129-155.		0
1897	Persistent Homology. , 2019, , 156-179.		0
1898	Diffusions on Graphs. , 2019, , 180-206.		0
1899	Sparse Networks. , 2019, , 207-225.		0
1900	Brain Network Distances. , 2019, , 226-245.		0
1901	Combinatorial Inferences for Networks. , 2019, , 246-268.		0
1902	Series Expansion of Connectivity Matrices. , 2019, , 269-291.		0
1903	Dynamic Network Models. , 2019, , 292-301.		0
1906	Multimodal imaging reveals a complex pattern of dysfunction in corticolimbic pathways in major depressive disorder. Human Brain Mapping, 2019, 40, 3940-3950.	1.9	36
1907	Differences between generalized Q-sampling imaging and diffusion tensor imaging in visualization of crossing neural fibers in the brain. Surgical and Radiologic Anatomy, 2019, 41, 1019-1028.	0.6	27
1908	The open diffusion data derivatives, brain data upcycling via integrated publishing of derivatives and reproducible open cloud services. Scientific Data, 2019, 6, 69.	2.4	69
1909	Comparison between diffusion MRI tractography and histological tract-tracing of cortico-cortical structural connectivity in the ferret brain. Network Neuroscience, 2019, 3, 1038-1050.	1.4	36
1910	Imaging Techniques for Neurosurgical Planning of Tumor Resection. , 2019, , 1-10.		0
1911	Spatial Characterisation of Fibre Response Functions for Spherical Deconvolution in Multiple Sclerosis. Mathematics and Visualization, 2019, , 265-279.	0.4	0
1912	Early life stress, cortisol, frontolimbic connectivity, and depressive symptoms during puberty. Development and Psychopathology, 2019, 31, 1011-1022.	1.4	31

#	ARTICLE	IF	CITATIONS
1913	Evaluating arcuate fasciculus laterality measurements across dataset and tractography pipelines. <i>Human Brain Mapping</i> , 2019, 40, 3695-3711.	1.9	24
1914	Tractography and machine learning: Current state and open challenges. <i>Magnetic Resonance Imaging</i> , 2019, 64, 37-48.	1.0	41
1915	Fingerprinting Orientation Distribution Functions in diffusion MRI detects smaller crossing angles. <i>NeuroImage</i> , 2019, 198, 231-241.	2.1	11
1916	Computational Diffusion MRI. <i>Mathematics and Visualization</i> , 2019, , .	0.4	4
1917	Antisocial behavior with callous-unemotional traits is associated with widespread disruptions to white matter structural connectivity among low-income, urban males. <i>NeuroImage: Clinical</i> , 2019, 23, 101836.	1.4	7
1918	The spatial correspondence and genetic influence of interhemispheric connectivity with white matter microstructure. <i>Nature Neuroscience</i> , 2019, 22, 809-819.	7.1	56
1919	Tensor network factorizations: Relationships between brain structural connectomes and traits. <i>NeuroImage</i> , 2019, 197, 330-343.	2.1	55
1920	Super-resolution Diffusion Tensor Imaging for Delineating the Facial Nerve in Patients with Vestibular Schwannoma. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2019, 80, 648-654.	0.4	7
1921	Diffusion MRI in the brain – Theory and concepts. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 112-113, 1-16.	3.9	51
1922	Objective Detection of Eloquent Axonal Pathways to Minimize Postoperative Deficits in Pediatric Epilepsy Surgery Using Diffusion Tractography and Convolutional Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1910-1922.	5.4	28
1923	Clinical Applications for Diffusion MRI and Tractography of Cranial Nerves Within the Posterior Fossa: A Systematic Review. <i>Frontiers in Neuroscience</i> , 2019, 13, 23.	1.4	24
1924	Formulation and Efficient Computation of ℓ_1 - and Smoothness Penalized Estimates for Microstructure-Informed Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1899-1909.	5.4	1
1925	A survey on visualization of tensor field. <i>Journal of Visualization</i> , 2019, 22, 641-660.	1.1	19
1926	The physics of brain network structure, function and control. <i>Nature Reviews Physics</i> , 2019, 1, 318-332.	11.9	233
1927	Bildverarbeitung für die Medizin 2019. <i>Informatik Aktuell</i> , 2019, , .	0.4	3
1928	Test-retest reproducibility of white matter parcellation using diffusion MRI tractography fiber clustering. <i>Human Brain Mapping</i> , 2019, 40, 3041-3057.	1.9	61
1929	Functional networks are impaired by elevated tau-protein but reversible in a regulatable Alzheimer's disease mouse model. <i>Molecular Neurodegeneration</i> , 2019, 14, 13.	4.4	28
1930	Strategies and prospects for cortical depth dependent T2 and T2* weighted BOLD fMRI studies. <i>NeuroImage</i> , 2019, 197, 668-676.	2.1	34

#	ARTICLE	IF	CITATIONS
1931	Global and regional white matter development in early childhood. <i>NeuroImage</i> , 2019, 196, 49-58.	2.1	96
1932	Multiparametric graph theoretical analysis reveals altered structural and functional network topology in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019, 22, 101680.	1.4	20
1933	Acupuncture Enhances Communication between Cortices with Damaged White Matters in Poststroke Motor Impairment. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-11.	0.5	10
1934	Structural brain network measures are superior to vascular burden scores in predicting early cognitive impairment in post stroke patients with small vessel disease. <i>NeuroImage: Clinical</i> , 2019, 22, 101712.	1.4	39
1935	Trigonal and Peritrigonal Lesions of the Lateral Ventricle: Presurgical Tractographic Planning and Clinic Outcome Evaluation. <i>World Neurosurgery</i> , 2019, 124, e296-e302.	0.7	0
1936	Genetic risk for schizophrenia and developmental delay is associated with shape and microstructure of midline white-matter structures. <i>Translational Psychiatry</i> , 2019, 9, 102.	2.4	20
1937	Fast density-peaks clustering for registration-free pediatric white matter tract analysis. <i>Artificial Intelligence in Medicine</i> , 2019, 96, 1-11.	3.8	2
1938	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 24.	0.9	22
1939	Neurophysiology-Driven Parameter Selection in nTMS-Based DTI Tractography: A Multidimensional Mathematical Model. <i>Frontiers in Neuroscience</i> , 2019, 13, 1373.	1.4	4
1940	Brain Fibre Tracking Improved by Diffusion Tensor Similarity using Non-Euclidean Distances. , 2019, , .		1
1941	Mini-Review of Studies Reporting the Repeatability and Reproducibility of Diffusion Tensor Imaging. <i>Investigative Magnetic Resonance Imaging</i> , 2019, 23, 26.	0.2	10
1942	Optic Radiation Tractography in Pediatric Brain Surgery Applications: A Reliability and Agreement Assessment of the Tractography Method. <i>Frontiers in Neuroscience</i> , 2019, 13, 1254.	1.4	9
1943	The Cortico-Basal Ganglia-Cerebellar Network: Past, Present and Future Perspectives. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 61.	1.2	95
1944	The impact of expressive language development and the left inferior longitudinal fasciculus on listening and reading comprehension. <i>Journal of Neurodevelopmental Disorders</i> , 2019, 11, 37.	1.5	21
1945	Multimodal image registration and connectivity analysis for integration of connectomic data from microscopy to MRI. <i>Nature Communications</i> , 2019, 10, 5504.	5.8	66
1946	Selective microstructural integrity impairments of the anterior corpus callosum are associated with cognitive deficits in obstructive sleep apnea. <i>Brain and Behavior</i> , 2019, 9, e01482.	1.0	17
1947	Developmental Pathoconnectomics and Advanced Fetal MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 275-284.	0.7	9
1948	Automatic Removal of False Connections in Diffusion MRI Tractography Using Topology-Informed Pruning (TIP). <i>Neurotherapeutics</i> , 2019, 16, 52-58.	2.1	114

#	ARTICLE	IF	CITATIONS
1949	A combined diffusion-weighted and electroencephalography study on age-related differences in connectivity in the motor network during bimanual performance. <i>Human Brain Mapping</i> , 2019, 40, 1799-1813.	1.9	16
1950	Diffusion Magnetic Resonance Imaging. , 2019, , 505-518.		2
1951	Probabilistic Tractography to Predict the Position of Cranial Nerves Displaced by Skull Base Tumors: Value for Surgical Strategy Through a Case Series of 62 Patients. <i>Neurosurgery</i> , 2019, 85, E125-E136.	0.6	26
1952	Individual white matter bundle trajectories are associated with deep brain stimulation response in obsessive-compulsive disorder. <i>Brain Stimulation</i> , 2019, 12, 353-360.	0.7	82
1953	Topological principles and developmental algorithms might refine diffusion tractography. <i>Brain Structure and Function</i> , 2019, 224, 1-8.	1.2	9
1954	Quantitative evaluation of fiber tractography with a Delaunay triangulation-based interpolation approach. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 925-938.	1.6	2
1955	Bundle-specific tractography with incorporated anatomical and orientational priors. <i>NeuroImage</i> , 2019, 186, 382-398.	2.1	59
1956	Awake Craniotomy and Bedside Cognitive Mapping in Neurosurgery. , 2019, , 113-138.		15
1957	Motion-robust diffusion compartment imaging using simultaneous multi-slice acquisition. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3314-3329.	1.9	7
1958	Corticospinal tract degeneration in ALS unmasked in T1-weighted images using texture analysis. <i>Human Brain Mapping</i> , 2019, 40, 1174-1183.	1.9	22
1959	Beyond Language. <i>Neurosurgery Clinics of North America</i> , 2019, 30, 75-83.	0.8	23
1960	Motion-robust reconstruction of multishot diffusion-weighted images without phase estimation through locally low-rank regularization. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1181-1190.	1.9	43
1961	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. <i>Medical Image Analysis</i> , 2019, 52, 56-67.	7.0	57
1962	A systematic review on the quantitative relationship between structural and functional network connectivity strength in mammalian brains. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 189-209.	2.4	85
1963	Using GPUs to accelerate computational diffusion MRI: From microstructure estimation to tractography and connectomes. <i>NeuroImage</i> , 2019, 188, 598-615.	2.1	107
1964	Modeling and Prediction of Multiple Correlated Functional Outcomes. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2019, 24, 112-129.	0.7	1
1965	Mapping connectomes with diffusion MRI: deterministic or probabilistic tractography?. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1368-1384.	1.9	147
1966	Eddy current nulled constrained optimization of isotropic diffusion encoding gradient waveforms. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1818-1832.	1.9	18

#	ARTICLE	IF	CITATIONS
1967	The relationship between socioeconomic status and white matter microstructure in pre-reading children: A longitudinal investigation. <i>Human Brain Mapping</i> , 2019, 40, 741-754.	1.9	54
1968	A material modeling approach for the effective response of planar soft tissues for efficient computational simulations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 89, 168-198.	1.5	18
1969	Diffusion MRI fiber tractography of the brain. <i>NMR in Biomedicine</i> , 2019, 32, e3785.	1.6	346
1970	Building connectomes using diffusion MRI: why, how and but. <i>NMR in Biomedicine</i> , 2019, 32, e3752.	1.6	209
1971	Graph Theoretical Framework of Brain Networks in Multiple Sclerosis: A Review of Concepts. <i>Neuroscience</i> , 2019, 403, 35-53.	1.1	117
1972	Magnetic Resonance Imaging of the Brains of Three Peramelemorphian Marsupials. <i>Journal of Mammalian Evolution</i> , 2019, 26, 295-316.	1.0	2
1973	Diffusion MRI visualization. <i>NMR in Biomedicine</i> , 2019, 32, e3902.	1.6	13
1974	Cervical Spine Prospective Feasibility Study. <i>Clinical Neuroradiology</i> , 2019, 29, 523-532.	1.0	9
1975	Aberrant white matter properties of the callosal tracts implicated in girls with attention-deficit/hyperactivity disorder. <i>Brain Imaging and Behavior</i> , 2020, 14, 728-735.	1.1	22
1976	White matter microstructure varies with post-traumatic stress severity following medical trauma. <i>Brain Imaging and Behavior</i> , 2020, 14, 1012-1024.	1.1	18
1977	A multi-shell multi-tissue diffusion study of brain connectivity in early multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 774-785.	1.4	13
1978	White matter microstructure of the extended limbic system in male and female youth with conduct disorder. <i>Psychological Medicine</i> , 2020, 50, 58-67.	2.7	8
1979	Iron concentration linked to structural connectivity in the subthalamic nucleus: implications for deep brain stimulation. <i>Journal of Neurosurgery</i> , 2020, 132, 197-204.	0.9	11
1980	White matter microstructure and network-connectivity in emerging adults with subclinical psychotic experiences. <i>Brain Imaging and Behavior</i> , 2020, 14, 1876-1888.	1.1	2
1981	Cellular Automata Tractography: Fast Geodesic Diffusion MR Tractography and Connectivity Based Segmentation on the GPU. <i>Neuroinformatics</i> , 2020, 18, 25-41.	1.5	3
1982	MRI evidence of brain atrophy, white matter damage, and functional adaptive changes in patients with cervical spondylosis and prolonged spinal cord compression. <i>European Radiology</i> , 2020, 30, 357-369.	2.3	31
1984	Cognitive Enhancement via Network-Targeted Cortico-cortical Associative Brain Stimulation. <i>Cerebral Cortex</i> , 2020, 30, 1516-1527.	1.6	28
1985	Multi-shot diffusion-weighted MRI reconstruction with magnitude-based spatial-angular locally low-rank regularization (SPA-LLR). <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1596-1607.	1.9	27

#	ARTICLE	IF	CITATIONS
1986	Regions of white matter abnormalities in the arcuate fasciculus in veterans with anger and aggression problems. <i>Brain Structure and Function</i> , 2020, 225, 1401-1411.	1.2	10
1987	Tractography in the presence of multiple sclerosis lesions. <i>NeuroImage</i> , 2020, 209, 116471.	2.1	36
1988	Gray matter integrity predicts white matter network reorganization in multiple sclerosis. <i>Human Brain Mapping</i> , 2020, 41, 917-927.	1.9	21
1989	Support vector regression. , 2020, , 123-140.		67
1990	Enforcing necessary non-negativity constraints for common diffusion MRI models using sum of squares programming. <i>NeuroImage</i> , 2020, 209, 116405.	2.1	13
1991	White matter tracts involved by deep brain stimulation of the subthalamic nucleus in Parkinsonâ€™s disease: a connectivity study based on preoperative diffusion tensor imaging tractography. <i>British Journal of Neurosurgery</i> , 2020, 34, 187-195.	0.4	10
1992	Probabilistic evaluation of streamline topologies for the detection of preferential flow configurations in PIV applications. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	0
1993	Constant gradient FEXSY: A time-efficient method for measuring exchange. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106667.	1.2	7
1994	Early prediction of unilateral cerebral palsy in infants at risk: MRI versus the hand assessment for infants. <i>Pediatric Research</i> , 2020, 87, 932-939.	1.1	10
1995	Diffusion tensor imaging of the human thigh: consideration of DTI-based fiber tracking stop criteria. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 343-355.	1.1	14
1996	Network Neuroscience and the Adapted Mind: Rethinking the Role of Network Theories in Evolutionary Psychology. <i>Frontiers in Psychology</i> , 2020, 11, 545632.	1.1	7
1997	(TS)2WM: Tumor Segmentation and Tract Statistics for Assessing White Matter Integrity with Applications to Glioblastoma Patients. <i>NeuroImage</i> , 2020, 223, 117368.	2.1	11
1998	Bundle analytics, a computational framework for investigating the shapes and profiles of brain pathways across populations. <i>Scientific Reports</i> , 2020, 10, 17149.	1.6	57
1999	Neuroanatomical Reconstruction of the Canine Visual Pathway Using Diffusion Tensor Imaging. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 54.	0.9	5
2000	Neonatal white matter tract microstructure and 2-year language outcomes after preterm birth. <i>NeuroImage: Clinical</i> , 2020, 28, 102446.	1.4	15
2001	A community-based topological distance for brain-connectome classification. <i>Journal of Complex Networks</i> , 2020, 8, .	1.1	2
2002	Challenges for biophysical modeling of microstructure. <i>Journal of Neuroscience Methods</i> , 2020, 344, 108861.	1.3	85
2003	Rich-club in the brainâ€™s macrostructure: Insights from graph theoretical analysis. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1761-1773.	1.9	45

#	ARTICLE	IF	CITATIONS
2004	Diffusion tensor imaging of the anterior cruciate ligament graft following reconstruction: a longitudinal study. <i>European Radiology</i> , 2020, 30, 6673-6684.	2.3	4
2005	Advances in Mathematical Sciences. Association for Women in Mathematics Series, 2020, , .	0.1	0
2006	Groupwise track filtering via iterative message passing and pruning. <i>NeuroImage</i> , 2020, 221, 117147.	2.1	4
2007	Investigation of local white matter abnormality in Parkinsonâ€™s disease by using an automatic fiber tract parcellation. <i>Behavioural Brain Research</i> , 2020, 394, 112805.	1.2	14
2008	State-Independent and -Dependent Structural Connectivity Alterations in Depression. <i>Frontiers in Psychiatry</i> , 2020, 11, 568717.	1.3	2
2009	Identifying neurodevelopmental anomalies of white matter microstructure associated with high risk for psychosis in 22q11.2DS. <i>Translational Psychiatry</i> , 2020, 10, 408.	2.4	6
2010	Conduction delays in the visual pathways of progressive multiple sclerosis patients covary with brain structure. <i>NeuroImage</i> , 2020, 221, 117204.	2.1	14
2011	Diffusion tensor-MRI detects exercise-induced neuroplasticity in the hippocampal microstructure in mice. <i>Brain Plasticity</i> , 2020, 5, 147-159.	1.9	10
2012	Correspondence Between Effective Connections in the Stop-Signal Task and Microstructural Correlations. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 279.	1.0	7
2013	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. <i>Science Advances</i> , 2020, 6, eaba8245.	4.7	64
2014	A dedicated eightâ€channel receive RF coil array for monkey brain MRI at 9.4 T. <i>NMR in Biomedicine</i> , 2020, 33, e4369.	1.6	2
2015	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020, 221, 117201.	2.1	52
2016	Optimal Parameters of Diffusion MRI measuring Corticospinal Tract Integrity in healthy subjects. , 2020, , .		1
2017	Face-Specific Perceptual Distortions Reveal A View- and Orientation-Independent Face Template. <i>Current Biology</i> , 2020, 30, 4071-4077.e4.	1.8	15
2018	Measuring latency distribution of transcallosal fibers using transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2020, 13, 1453-1460.	0.7	15
2019	Developmental neuroplasticity of the white matter connectome in children with perinatal stroke. <i>Neurology</i> , 2020, 95, e2476-e2486.	1.5	22
2020	Long-term tract-specific white matter microstructural changes after acute stress. <i>Brain Imaging and Behavior</i> , 2021, 15, 1868-1875.	1.1	4
2021	Diagnostic Imaging in Intervertebral Disc Disease. <i>Frontiers in Veterinary Science</i> , 2020, 7, 588338.	0.9	48

#	ARTICLE	IF	CITATIONS
2022	Diffusion tensor distribution imaging of an in vivo mouse brain at ultrahigh magnetic field by spatiotemporal encoding. <i>NMR in Biomedicine</i> , 2020, 33, e4355.	1.6	19
2023	From Coarse to Fine-Grained Parcellation of the Cortical Surface Using a Fiber-Bundle Atlas. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 32.	1.3	9
2024	Diffusion Tensor Imaging for Quantitative Assessment of Anterior Cruciate Ligament Injury Grades and Graft. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1475-1484.	1.9	6
2025	Brain connections derived from diffusion MRI tractography can be highly anatomically accurate“if we know where white matter pathways start, where they end, and where they do not go. <i>Brain Structure and Function</i> , 2020, 225, 2387-2402.	1.2	58
2026	Structural anomalies in brain networks induce dynamical pacemaker effects. <i>Chaos</i> , 2020, 30, 113137.	1.0	14
2027	Optimization and validation of diffusion MRI-based fiber tracking with neural tracer data as a reference. <i>Scientific Reports</i> , 2020, 10, 21285.	1.6	15
2028	High-Resolution 3D in vivo Brain Diffusion Tensor Imaging at Ultrahigh Fields: Following Maturation on Juvenile and Adult Mice. <i>Frontiers in Neuroscience</i> , 2020, 14, 590900.	1.4	8
2029	Importance of self-connections for brain connectivity and spectral connectomics. <i>Biological Cybernetics</i> , 2020, 114, 643-651.	0.6	8
2030	Evolutional and developmental anatomical architecture of the left inferior frontal gyrus. <i>NeuroImage</i> , 2020, 222, 117268.	2.1	30
2031	Quantitative tractography reveals changes in the corticospinal tract in drug-naïve children with attention-deficit/hyperactivity disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2020, 45, 134-141.	1.4	11
2032	Indirect frontocingulate structural connectivity predicts clinical response to accelerated rTMS in major depressive disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2020, 45, 243-252.	1.4	15
2033	Overcoming challenges of the human spinal cord tractography for routine clinical use: a review. <i>Neuroradiology</i> , 2020, 62, 1079-1094.	1.1	8
2034	Measuring conduction velocity distributions in peripheral nerves using neurophysiological techniques. <i>Clinical Neurophysiology</i> , 2020, 131, 1581-1588.	0.7	6
2035	Network Efficiency Mediates the Relationship Between Vascular Burden and Cognitive Impairment. <i>Stroke</i> , 2020, 51, 1682-1689.	1.0	31
2036	The Relationship Between Zebrin Expression and Cerebellar Functions: Insights From Neuroimaging Studies. <i>Frontiers in Neurology</i> , 2020, 11, 315.	1.1	8
2037	Abnormal Rich Club Organization of Structural Network as a Neuroimaging Feature in Relation With the Severity of Primary Insomnia. <i>Frontiers in Psychiatry</i> , 2020, 11, 308.	1.3	12
2038	Assessing White Matter Pathology in Early-Stage Parkinson Disease Using Diffusion MRI: A Systematic Review. <i>Frontiers in Neurology</i> , 2020, 11, 314.	1.1	25
2039	The impact of position-orientation adaptive smoothing in diffusion weighted imaging“From diffusion metrics to fiber tractography. <i>PLoS ONE</i> , 2020, 15, e0233474.	1.1	1

#	ARTICLE	IF	CITATIONS
2040	What scans we will read: imaging instrumentation trends in clinical oncology. <i>Cancer Imaging</i> , 2020, 20, 38.	1.2	35
2041	Tractography in Neurosurgery: A Systematic Review of Current Applications. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2020, 81, 442-455.	0.4	21
2042	Automatic group-wise whole-brain short association fiber bundle labeling based on clustering and cortical surface information. <i>BioMedical Engineering OnLine</i> , 2020, 19, 42.	1.3	4
2043	Evidence for Reciprocal Structural Network Interactions Between Bilateral Crus Lobes and Broca's Complex. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 27.	0.9	3
2044	The pontine-driven somatic gaze tract contributes to affective processing in humans. <i>NeuroImage</i> , 2020, 213, 116692.	2.1	5
2045	Effects of Modified Constraint-Induced Movement Therapy in Real-World Arm Use in Young Children with Unilateral Cerebral Palsy: A Single-Blind Randomized Trial. <i>Neuropediatrics</i> , 2020, 51, 259-266.	0.3	9
2046	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 299-309.	1.0	52
2047	Machine Learning and DWI Brain Communicability Networks for Alzheimer's Disease Detection. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 934.	1.3	20
2048	Drum training induces long-term plasticity in the cerebellum and connected cortical thickness. <i>Scientific Reports</i> , 2020, 10, 10116.	1.6	7
2049	FFClust: Fast fiber clustering for large tractography datasets for a detailed study of brain connectivity. <i>NeuroImage</i> , 2020, 220, 117070.	2.1	25
2050	Improved fibre dispersion estimation using b-tensor encoding. <i>NeuroImage</i> , 2020, 215, 116832.	2.1	17
2051	Diffusion Weighted and Diffusion Tensor MRI in Pediatric Neuroimaging Including Connectomics: Principles and Applications. <i>Seminars in Pediatric Neurology</i> , 2020, 33, 100797.	1.0	10
2052	Soft composite based hyperelastic model for anisotropic tissue characterization. <i>Journal of Composite Materials</i> , 2020, 54, 4525-4534.	1.2	22
2053	Traumatic Brain Injury Severity in a Network Perspective: A Diffusion MRI Based Connectome Study. <i>Scientific Reports</i> , 2020, 10, 9121.	1.6	32
2054	Creation of a novel trigeminal tractography atlas for automated trigeminal nerve identification. <i>NeuroImage</i> , 2020, 220, 117063.	2.1	17
2055	Deep white matter analysis (DeepWMA): Fast and consistent tractography segmentation. <i>Medical Image Analysis</i> , 2020, 65, 101761.	7.0	57
2056	Denoise magnitude diffusion magnetic resonance images via variance-stabilizing transformation and optimal singular-value manipulation. <i>NeuroImage</i> , 2020, 215, 116852.	2.1	28
2057	Diffusion tensor imaging reveals changes in non-fat infiltrated muscles in late onset Pompe disease. <i>Muscle and Nerve</i> , 2020, 62, 541-549.	1.0	20

#	ARTICLE	IF	CITATIONS
2058	Disentangling the Effects of Spinal Cord Injury and Related Neuropathic Pain on Supraspinal Neuroplasticity: A Systematic Review on Neuroimaging. <i>Frontiers in Neurology</i> , 2019, 10, 1413.	1.1	18
2059	Locomotor Adaptation Is Associated with Microstructural Properties of the Inferior Cerebellar Peduncle. <i>Cerebellum</i> , 2020, 19, 370-382.	1.4	15
2060	Fluid intelligence is associated with cortical volume and white matter tract integrity within multiple-demand system across adult lifespan. <i>NeuroImage</i> , 2020, 212, 116576.	2.1	30
2061	A comprehensive approach for correcting voxel-wise value errors in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2173-2184.	1.9	15
2062	Functional clustering of whole brain white matter fibers. <i>Journal of Neuroscience Methods</i> , 2020, 335, 108626.	1.3	4
2063	Towards deep learning for connectome mapping: A block decomposition framework. <i>NeuroImage</i> , 2020, 212, 116654.	2.1	9
2064	The Utility of Diffusion Tensor Imaging in Neuromodulation: Moving Beyond Conventional Magnetic Resonance Imaging. <i>Neuromodulation</i> , 2020, 23, 427-435.	0.4	5
2065	A resource for the detailed 3D mapping of white matter pathways in the marmoset brain. <i>Nature Neuroscience</i> , 2020, 23, 271-280.	7.1	77
2066	Deep brain stimulation for Tourette's syndrome. <i>Translational Neurodegeneration</i> , 2020, 9, 4.	3.6	50
2067	Anatomical assessment of trigeminal nerve tractography using diffusion MRI: A comparison of acquisition b-values and single- and multi-fiber tracking strategies. <i>NeuroImage: Clinical</i> , 2020, 25, 102160.	1.4	25
2068	Sensitivity to word structure in adult Hebrew readers is associated with microstructure of the ventral reading pathways. <i>Cortex</i> , 2020, 128, 234-253.	1.1	5
2069	Local White Matter Fiber Clustering Differentiates Parkinson's Disease Diagnoses. <i>Neuroscience</i> , 2020, 435, 146-160.	1.1	5
2070	Structural connectivity to reconstruct brain activation and effective connectivity between brain regions. <i>Journal of Neural Engineering</i> , 2020, 17, 035006.	1.8	6
2071	Leveraging multi-shell diffusion for studies of brain development in youth and young adulthood. <i>Developmental Cognitive Neuroscience</i> , 2020, 43, 100788.	1.9	65
2072	Cytoarchitecture of the mouse brain by high resolution diffusion magnetic resonance imaging. <i>NeuroImage</i> , 2020, 216, 116876.	2.1	29
2073	Game theoretical mapping of white matter contributions to visuospatial attention in stroke patients with hemineglect. <i>Human Brain Mapping</i> , 2020, 41, 2926-2950.	1.9	15
2074	Multi-Class ASD Classification Based on Functional Connectivity and Functional Correlation Tensor via Multi-Source Domain Adaptation and Multi-View Sparse Representation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3137-3147.	5.4	44
2075	How Human Is Human Connectional Neuroanatomy?. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 18.	0.9	12

#	ARTICLE	IF	CITATIONS
2076	Mapping Short Association Fibers in the Early Cortical Visual Processing Stream Using In Vivo Diffusion Tractography. <i>Cerebral Cortex</i> , 2020, 30, 4496-4514.	1.6	40
2077	Dentate Gyrus Volume Mediates the Effect of Fornix Microstructure on Memory Formation in Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 79.	1.7	14
2078	Insight into the fundamental trade-offs of diffusion MRI from polarization-sensitive optical coherence tomography in ex vivo human brain. <i>NeuroImage</i> , 2020, 214, 116704.	2.1	42
2079	Diffusion tensor imaging of the anterior cruciate ligament following primary repair with internal bracing: A longitudinal study. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1318-1330.	1.2	7
2080	Investigation of Local White Matter Properties in Professional Chess Player: A Diffusion Magnetic Resonance Imaging Study Based on Automatic Annotation Fiber Clustering. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021, 13, 403-415.	2.6	4
2081	The sensitivity of diffusion MRI to microstructural properties and experimental factors. <i>Journal of Neuroscience Methods</i> , 2021, 347, 108951.	1.3	53
2082	Computing and visualising intra-voxel orientation-specific relaxation diffusion features in the human brain. <i>Human Brain Mapping</i> , 2021, 42, 310-328.	1.9	35
2083	Evidence for the role of the dorsal ventral lateral posterior thalamic nucleus connectivity in deep brain stimulation for Gilles de la Tourette syndrome. <i>Journal of Psychiatric Research</i> , 2021, 132, 60-64.	1.5	7
2084	Imaging Developmental and Interventional Plasticity Following Perinatal Stroke. <i>Canadian Journal of Neurological Sciences</i> , 2021, 48, 157-171.	0.3	11
2085	Evaluation of interrater reliability of different muscle segmentation techniques in diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2021, 34, e4430.	1.6	7
2086	Robust intra-individual estimation of structural connectivity by Principal Component Analysis. <i>NeuroImage</i> , 2021, 226, 117483.	2.1	1
2087	Entrack: Probabilistic Spherical Regression with Entropy Regularization for Fiber Tractography. <i>International Journal of Computer Vision</i> , 2021, 129, 656-680.	10.9	8
2088	Fiber bundle tracking method to analyze sheet molding compound microstructure based on computed tomography images. <i>NDT and E International</i> , 2021, 117, 102370.	1.7	9
2089	A general role for ventral white matter pathways in morphological processing: Going beyond reading. <i>NeuroImage</i> , 2021, 226, 117577.	2.1	8
2090	Toward nonparametric diffusion characterization of crossing fibers in the human brain. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2815-2827.	1.9	22
2091	The present and the future of microstructure MRI: From a paradigm shift to normal science. <i>Journal of Neuroscience Methods</i> , 2021, 351, 108947.	1.3	22
2092	Diffusion-regularized susceptibility tensor imaging (DRSTI) of tissue microstructures in the human brain. <i>Medical Image Analysis</i> , 2021, 67, 101827.	7.0	16
2093	Applications of metaplectic cohomology and global-local contact holonomy. <i>Journal of Applied Mathematics and Computing</i> , 2021, 65, 1-66.	1.2	1

#	ARTICLE	IF	CITATIONS
2094	RUNâ€U: Accelerated multishot diffusionâ€weighted MRI reconstruction using an unrolled network with Uâ€Net as priors. Magnetic Resonance in Medicine, 2021, 85, 709-720.	1.9	29
2095	dMRI: Diffusion Magnetic Resonance Imaging as a Window onto Structural Brain Networks and White Matter Microstructure. , 2021, , 105-134.		0
2097	Diffusion MRI Fiber Orientation Distribution Function Estimation Using Voxel-Wise Spherical U-Net. Mathematics and Visualization, 2021, , 95-106.	0.4	8
2098	Conceptual Parallels Between Stochastic Geometry and Diffusion-Weighted MRI. Mathematics and Visualization, 2021, , 193-202.	0.4	0
2099	A Nanometer Resolution Wearable Wireless Medical Device for Non Invasive Intracranial Pressure Monitoring. IEEE Sensors Journal, 2021, 21, 22270-22284.	2.4	22
2100	Altered microstructural pattern of white matter in Cushingâ€™s disease identified by automated fiber quantification. NeuroImage: Clinical, 2021, 31, 102770.	1.4	4
2101	Deep Fiber Clustering: Anatomically Informed Unsupervised Deep Learning for Fast and Effective White Matter Parcellation. Lecture Notes in Computer Science, 2021, , 497-507.	1.0	9
2103	Physical and technical aspects of human magnetic resonance imaging: present status and 50 years historical review. Advances in Physics: X, 2021, 6, 1885310.	1.5	2
2104	A Novel Algorithm for Region-to-Region Tractography in Diffusion Tensor Imaging. Lecture Notes in Computer Science, 2021, , 71-81.	1.0	0
2105	An Integrative Approach to Study Structural and Functional Network Connectivity in Epilepsy Using Imaging and Signal Data. Frontiers in Integrative Neuroscience, 2020, 14, 491403.	1.0	3
2106	Recent Advances in Parameter Inference for Diffusion MRI Signal Models. Magnetic Resonance in Medical Sciences, 2022, 21, 132-147.	1.1	1
2107	Intra-Areal Visual Topography in Primate Brains Mapped with Probabilistic Tractography of Diffusion-Weighted Imaging. Cerebral Cortex, 2022, 32, 2555-2574.	1.6	1
2108	Predicting MEG resting-state functional connectivity from microstructural information. Network Neuroscience, 2021, 5, 477-504.	1.4	20
2110	Acute changes in diffusion tensor-derived metrics and its correlation with the motor outcome in gliomas adjacent to the corticospinal tract. , 2021, 12, 51.		4
2111	Speech rate association with cerebellar white-matter diffusivity in adults with persistent developmental stuttering. Brain Structure and Function, 2021, 226, 801-816.	1.2	8
2112	Parallel Transport Tractography. IEEE Transactions on Medical Imaging, 2021, 40, 635-647.	5.4	23
2113	A comparison of diffusion tractography techniques in simulating the generalized Ising model to predict the intrinsic activity of the brain. Brain Structure and Function, 2021, 226, 817-832.	1.2	5
2114	A new framework for MR diffusion tensor distribution. Scientific Reports, 2021, 11, 2766.	1.6	14

#	ARTICLE	IF	CITATIONS
2115	White matter alterations in glaucoma and monocular blindness differ outside the visual system. <i>Scientific Reports</i> , 2021, 11, 6866.	1.6	11
2116	Imaging modalities in differential diagnosis of Parkinson's disease: opportunities and challenges. <i>Egyptian Journal of Radiology and Nuclear Medicine</i> , 2021, 52, .	0.3	5
2117	White Matter Structural Network Analysis to Differentiate Alzheimer's Disease and Subcortical Ischemic Vascular Dementia. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 650377.	1.7	8
2118	Hierarchical Microstructure Informed Tractography. <i>Brain Connectivity</i> , 2021, 11, 75-88.	0.8	13
2119	Disrupted frontostriatal connectivity in primary insomnia: a DTI study. <i>Brain Imaging and Behavior</i> , 2021, 15, 2524-2531.	1.1	8
2120	Contribution of Gray Matter Atrophy and White Matter Damage to Cognitive Impairment in Mildly Disabled Relapsing-Remitting Multiple Sclerosis Patients. <i>Diagnostics</i> , 2021, 11, 578.	1.3	5
2121	Personalized biomechanical tongue models based on diffusion-weighted MRI and validated using optical tracking of range of motion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1101-1113.	1.4	4
2123	Comparison of diffusion MRI and CLARITY fiber orientation estimates in both gray and white matter regions of human and primate brain. <i>NeuroImage</i> , 2021, 228, 117692.	2.1	20
2124	FiberStars: Visual Comparison of Diffusion Tractography Data between Multiple Subjects. , 2021, , .		3
2125	In-vivo diffusion MRI protocol optimization for the chimpanzee brain and examination of aging effects on the primate optic nerve at 3T. <i>Magnetic Resonance Imaging</i> , 2021, 77, 194-203.	1.0	4
2126	Multiband diffusion tensor imaging for presurgical mapping of motor and language pathways in patients with brain tumors. <i>Journal of Neuroimaging</i> , 2021, 31, 784-795.	1.0	1
2127	Detection of cerebral reorganization associated with degenerative cervical myelopathy using diffusion spectral imaging (DSI). <i>Journal of Clinical Neuroscience</i> , 2021, 86, 164-173.	0.8	7
2129	Current applications of diffusion tensor tractography analysis of corticospinal tracts for prognostication of motor outcomes or optimization of neurosurgical intervention in hypertensive intracranial hemorrhage. <i>Brain Hemorrhages</i> , 2021, , .	0.4	3
2130	Influence of equipment changes on MRI measures of brain atrophy and brain microstructure in a placebo-controlled trial of ibudilast in progressive multiple sclerosis. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2021, 7, 205521732110108.	0.5	1
2131	White matter abnormalities in a patient with visual snow syndrome: New evidence from a diffusion tensor imaging study. <i>European Journal of Neurology</i> , 2021, 28, 2789-2793.	1.7	13
2132	Comparison of multiple tractography methods for reconstruction of the retinogeniculate visual pathway using diffusion MRI. <i>Human Brain Mapping</i> , 2021, 42, 3887-3904.	1.9	21
2133	The Organization of Frontostriatal Brain Wiring in Healthy Subjects Using a Novel Diffusion Imaging Fiber Cluster Analysis. <i>Cerebral Cortex</i> , 2021, 31, 5308-5318.	1.6	9
2134	Multidimensional analysis and detection of informative features in human brain white matter. <i>PLoS Computational Biology</i> , 2021, 17, e1009136.	1.5	14

#	ARTICLE	IF	CITATIONS
2136	A Progressive Approach for Uncertainty Visualization in Diffusion Tensor Imaging. <i>Computer Graphics Forum</i> , 2021, 40, 411-422.	1.8	3
2137	Diffusion property and functional connectivity of superior longitudinal fasciculus underpin human metacognition. <i>Neuropsychologia</i> , 2021, 156, 107847.	0.7	19
2139	Diffusion magnetic resonance imaging data: development of methods and tools for diagnosis and treatment of brain diseases. <i>Bulletin of Siberian Medicine</i> , 2021, 20, 191-201.	0.1	1
2140	Cerebral White Matter Myelination and Relations to Age, Gender, and Cognition: A Selective Review. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 662031.	1.0	59
2141	A generative network model of neurodevelopmental diversity in structural brain organization. <i>Nature Communications</i> , 2021, 12, 4216.	5.8	34
2142	Connectome analysis of male world-class gymnasts using probabilistic multishell, multitissue constrained spherical deconvolution tracking. <i>Journal of Neuroscience Research</i> , 2021, 99, 2558-2572.	1.3	1
2143	Ensemble Learning for Multiple Sclerosis Disability Estimation Using Brain Structural Connectivity. <i>Brain Connectivity</i> , 2022, 12, 476-488.	0.8	7
2144	Biophysical mechanisms of electroconvulsive therapy-induced volume expansion in the medial temporal lobe: A longitudinal in vivo human imaging study. <i>Brain Stimulation</i> , 2021, 14, 1038-1047.	0.7	14
2145	Development of thalamus mediates paternal age effect on offspring reading: A preliminary investigation. <i>Human Brain Mapping</i> , 2021, 42, 4580-4596.	1.9	3
2146	Track-Density Ratio Mapping With Fiber Types in the Cerebral Cortex Using Diffusion-Weighted MRI. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 715571.	0.9	1
2148	Diffusion MRI tractography for neurosurgery: the basics, current state, technical reliability and challenges. <i>Physics in Medicine and Biology</i> , 2021, 66, 15TR01.	1.6	25
2149	Diffusion Tensor Imaging Reveals Altered Topological Efficiency of Structural Networks in Type 2 Diabetes Patients With and Without Mild Cognitive Impairment. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 917-927.	1.9	14
2150	A high-resolution interactive atlas of the human brainstem using magnetic resonance imaging. <i>NeuroImage</i> , 2021, 237, 118135.	2.1	18
2151	Recording cortico-cortical evoked potentials of the human arcuate fasciculus under general anaesthesia. <i>Clinical Neurophysiology</i> , 2021, 132, 1966-1973.	0.7	17
2152	Role of regional diffusion tensor imaging (DTI)-derived tensor metrics in the evaluation of intracranial gliomas and its histopathological correlation. <i>Medical Journal Armed Forces India</i> , 2021, . .	0.3	0
2153	An Age-Specific Atlas for Delineation of White Matter Pathways in Children Aged 6-8 Years. <i>Brain Connectivity</i> , 2022, 12, 402-416.	0.8	4
2154	Local and distant responses to single pulse electrical stimulation reflect different forms of connectivity. <i>NeuroImage</i> , 2021, 237, 118094.	2.1	31
2155	Volumetric white matter tract segmentation with nested self-supervised learning using sequential pretext tasks. <i>Medical Image Analysis</i> , 2021, 72, 102094.	7.0	25

#	ARTICLE	IF	CITATIONS
2156	Track-to-Learn: A general framework for tractography with deep reinforcement learning. Medical Image Analysis, 2021, 72, 102093.	7.0	8
2159	Multi-parametric MRI (mpMRI) for treatment response assessment of radiation therapy. Medical Physics, 2022, 49, 2794-2819.	1.6	3
2161	Dementia Risk Factors Modify Hubs but Leave Other Connectivity Measures Unchanged in Asymptomatic Individuals: A Graph Theoretical Analysis. Brain Connectivity, 2022, 12, 26-40.	0.8	9
2162	Functional DTI tractography in brainstem cavernoma surgery. Journal of Neurosurgery, 2021, 135, 712-721.	0.9	6
2163	Patient-Specific Network Connectivity Combined With a Next Generation Neural Mass Model to Test Clinical Hypothesis of Seizure Propagation. Frontiers in Systems Neuroscience, 2021, 15, 675272.	1.2	12
2164	A critical review of connectome validation studies. NMR in Biomedicine, 2021, 34, e4605.	1.6	12
2165	Geodesic fiber tracking in white matter using activation function. Computer Methods and Programs in Biomedicine, 2021, 208, 106283.	2.6	4
2166	Nucleus accumbens projections: Validity and reliability of fiber reconstructions based on high-resolution diffusion-weighted MRI. Human Brain Mapping, 2021, 42, 5888-5910.	1.9	3
2167	Multi-modal imaging of a single mouse brain over five orders of magnitude of resolution. NeuroImage, 2021, 238, 118250.	2.1	12
2168	High fidelity fiber orientation density functions from fiber ball imaging. NMR in Biomedicine, 2022, 35, e4613.	1.6	5
2169	Remote Corticospinal Tract Degeneration After Cortical Stroke in Rats May Not Preclude Spontaneous Sensorimotor Recovery. Neurorehabilitation and Neural Repair, 2021, 35, 1010-1019.	1.4	2
2170	Robust reconstruction of curved line structures in noisy point clouds. Visual Informatics, 2021, 5, 1-14.	2.5	5
2171	Left and Right Arcuate Fasciculi Are Uniquely Related to Word Reading Skills in Chinese-English Bilingual Children. Neurobiology of Language (Cambridge, Mass), 2022, 3, 109-131.	1.7	4
2172	The One-Stop Gyrfication Station - Challenges and New Technologies. Progress in Neurobiology, 2021, 204, 102111.	2.8	4
2173	inCCsight: A software for exploration and visualization of DT-MRI data of the Corpus Callosum. Computers and Graphics, 2021, 99, 259-271.	1.4	5
2174	Current and Future Challenges of Functional MRI and Diffusion Tractography in the Surgical Setting: From Eloquent Brain Mapping to Neural Plasticity. Seminars in Ultrasound, CT and MRI, 2021, 42, 474-489.	0.7	6
2175	Distant histories of mild traumatic brain injury exacerbate age-related differences in white matter properties. Neurobiology of Aging, 2021, 107, 30-41.	1.5	2
2176	The longitudinal relationship between BOLD signal variability changes and white matter maturation during early childhood. NeuroImage, 2021, 242, 118448.	2.1	16

#	ARTICLE	IF	CITATIONS
2177	Fiber tract integrity in patients with brain injury and chronic health symptoms. <i>NeuroImage Reports</i> , 2021, 1, 100047.	0.5	0
2178	Magnetic resonance imaging biomarkers for cognitive decline in Down syndrome. , 2022, , 149-172.		2
2179	Network neuroscience and the connectomics revolution. , 2022, , 25-58.		10
2180	Brain-wide connectivity architecture. , 2021, , 247-257.		2
2181	Riemann-DTI Geodesic Tractography Revisited. <i>Mathematics and Visualization</i> , 2021, , 225-243.	0.4	2
2182	Uncertainty in the DTI Visualization Pipeline. <i>Mathematics and Visualization</i> , 2021, , 125-148.	0.4	1
2183	A Computational Geometry Approach for Modeling Neuronal Fiber Pathways. <i>Lecture Notes in Computer Science</i> , 2021, 12908, 175-185.	1.0	4
2184	Orbital MRI. , 2021, , 1-9.		0
2185	Real-time strategy video game experience and structural connectivity – A diffusion tensor imaging study. <i>Human Brain Mapping</i> , 2018, 39, 3742-3758.	1.9	25
2187	Fast and Simple Calculus on Tensors in the Log-Euclidean Framework. <i>Lecture Notes in Computer Science</i> , 2005, 8, 115-122.	1.0	180
2188	A Hamilton-Jacobi-Bellman Approach to High Angular Resolution Diffusion Tractography. <i>Lecture Notes in Computer Science</i> , 2005, 8, 180-187.	1.0	42
2189	Automated Atlas-Based Clustering of White Matter Fiber Tracts from DTMRI. <i>Lecture Notes in Computer Science</i> , 2005, 8, 188-195.	1.0	63
2190	MR Diffusion-Based Inference of a Fiber Bundle Model from a Population of Subjects. <i>Lecture Notes in Computer Science</i> , 2005, 8, 196-204.	1.0	15
2191	A Physical Model for DT-MRI Based Connectivity Map Computation. <i>Lecture Notes in Computer Science</i> , 2005, 8, 213-220.	1.0	21
2192	3D Histological Reconstruction of Fiber Tracts and Direct Comparison with Diffusion Tensor MRI Tractography. <i>Lecture Notes in Computer Science</i> , 2006, 9, 109-116.	1.0	14
2193	High-Dimensional White Matter Atlas Generation and Group Analysis. <i>Lecture Notes in Computer Science</i> , 2006, , 243-251.	1.0	9
2194	Continuous Tensor Field Approximation of Diffusion Tensor MRI data. <i>Mathematics and Visualization</i> , 2006, , 299-314.	0.4	4
2196	High-Field Neuroimaging in Traumatic Brain Injury. , 2006, , 169-176.		3

#	ARTICLE	IF	CITATIONS
2197	Segmentation of Diffusion Tensor Imagery. , 2003, , 239-247.		3
2199	Toward Application of Virtual Reality to Visualization of DT-MRI Volumes. Lecture Notes in Computer Science, 2001, , 1406-1408.	1.0	3
2200	Study of Connectivity in the Brain Using the Full Diffusion Tensor from MRI. Lecture Notes in Computer Science, 2001, , 121-133.	1.0	25
2201	A Regularization Scheme for Diffusion Tensor Magnetic Resonance Images. Lecture Notes in Computer Science, 2001, , 92-105.	1.0	46
2202	Distributed Anatomical Brain Connectivity Derived from Diffusion Tensor Imaging. Lecture Notes in Computer Science, 2001, , 106-120.	1.0	16
2203	Regularized Stochastic White Matter Tractography Using Diffusion Tensor MRI. Lecture Notes in Computer Science, 2002, , 435-442.	1.0	40
2204	A Spin Glass Based Framework to Untangle Fiber Crossing in MR Diffusion Based Tracking. Lecture Notes in Computer Science, 2002, , 475-482.	1.0	7
2205	Issues in Translating Imaging Technology and Presurgical Diffusion Tensor Imaging. , 2011, , 731-765.		3
2206	DTI for Presurgical Mapping. , 2014, , 95-109.		6
2207	From Individual to Population: Challenges in Medical Visualization. Mathematics and Visualization, 2014, , 265-282.	0.4	8
2208	Diffusion Tensor Magnetic Resonance Imaging in Autism. , 2013, , 179-230.		2
2209	Diffusion MRI and Q-Space Diffusion MRI: From Cerebral Ischemia to Multiple Sclerosis and Beyond. , 2001, , 123-145.		1
2210	Second Language Sentence Processing: Psycholinguistic and Neurobiological Research Paradigms. , 2016, , 231-263.		1
2211	DT-MRI Connectivity and/or Tractography?: Two New Algorithms. Advances in Pattern Recognition, 2009, , 335-353.	0.8	1
2212	Advanced Physiologic Imaging: Diffusion“ Theory and Applications. , 2020, , 93-108.		2
2214	Deep White Matter Analysis: Fast, Consistent Tractography Segmentation Across Populations and dMRI Acquisitions. Lecture Notes in Computer Science, 2019, 11766, 599-608.	1.0	10
2215	White Matter Pathology in Schizophrenia. , 2020, , 71-91.		3
2216	Linear Dynamics and Control of Brain Networks. , 2020, , 497-518.		11

#	ARTICLE	IF	CITATIONS
2217	White Matter Tract Segmentation with Self-supervised Learning. Lecture Notes in Computer Science, 2020, , 270-279.	1.0	4
2218	TRAKO: Efficient Transmission of Tractography Data for Visualization. Lecture Notes in Computer Science, 2020, 12267, 322-332.	1.0	3
2219	Uncertainty in diffusion tensor based fibre tracking. , 2006, 98, 33-41.		21
2220	Present dayâ€™s standards in microsurgery of low-grade gliomas. Advances and Technical Standards in Neurosurgery, 2010, 35, 113-157.	0.2	18
2223	Structural Brain Imaging and Internet Addiction. Studies in Neuroscience, Psychology and Behavioral Economics, 2015, , 21-42.	0.1	4
2224	Probabilistic Shortest Path Tractography in DTI Using Gaussian Process ODE Solvers. Lecture Notes in Computer Science, 2014, 17, 265-272.	1.0	17
2225	Fiber Bundle Segmentation Using Spectral Embedding and Supervised Learning. Mathematics and Visualization, 2014, , 103-114.	0.4	7
2226	Generalized Diffusion Tractography Based on Directional Data Clustering. Studies in Computational Intelligence, 2015, , 311-320.	0.7	1
2228	Diffusion-Weighted Magnetic Resonance Signal for General Gradient Waveforms: Multiple Correlation Function Framework, Path Integrals, and Parallels Between Them. Mathematics and Visualization, 2015, , 3-19.	0.4	1
2229	Towards a Quantified Network Portrait of a Population. Lecture Notes in Computer Science, 2015, 24, 650-661.	1.0	2
2230	AxTract: Microstructure-Driven Tractography Based on the Ensemble Average Propagator. Lecture Notes in Computer Science, 2015, 24, 675-686.	1.0	16
2231	Merits and Limits of Tractography Techniques for the Uninitiated. Advances and Technical Standards in Neurosurgery, 2016, , 37-60.	0.2	49
2232	Mapping Eloquent Brain with Functional MRI and DTI. , 2016, , 41-62.		1
2233	Content-Based Retrieval of Brain Diffusion Magnetic Resonance Image. Lecture Notes in Computer Science, 2015, , 54-60.	1.0	4
2234	Elucidating Intravoxel Geometry in Diffusion-MRI: Asymmetric Orientation Distribution Functions (AODFs) Revealed by a Cone Model. Lecture Notes in Computer Science, 2015, , 231-238.	1.0	3
2235	A Random Riemannian Metric for Probabilistic Shortest-Path Tractography. Lecture Notes in Computer Science, 2015, , 597-604.	1.0	7
2236	The Basal Ganglia and Language: A Tale of Two Loops. Innovations in Cognitive Neuroscience, 2016, , 217-242.	0.3	6
2238	Interface Detection in Diffusion Tensor MRI. Lecture Notes in Computer Science, 2004, , 360-367.	1.0	11

#	ARTICLE	IF	CITATIONS
2239	Clustering Fiber Traces Using Normalized Cuts. Lecture Notes in Computer Science, 2004, , 368-375.	1.0	77
2240	Estimation of Anatomical Connectivity by Anisotropic Front Propagation and Diffusion Tensor Imaging. Lecture Notes in Computer Science, 2004, , 663-670.	1.0	9
2241	Diffusion Tensor and Functional MRI Fusion with Anatomical MRI for Image-Guided Neurosurgery. Lecture Notes in Computer Science, 2003, , 407-415.	1.0	24
2242	Visualization of Neural DTI Vector Fields Using Line Integral Convolution. Lecture Notes in Computer Science, 2003, , 207-214.	1.0	1
2243	White Matter Mapping in DT-MRI Using Geometric Flows. Lecture Notes in Computer Science, 2003, , 585-596.	1.0	7
2244	Direct Glyph-based Visualization of Diffusion MR Data Using Deformed Spheres. Mathematics and Visualization, 2008, , 185-204.	0.4	2
2245	Probabilistic Clustering and Quantitative Analysis of White Matter Fiber Tracts. Lecture Notes in Computer Science, 2007, 20, 372-383.	1.0	31
2246	Nonlinear Registration of Diffusion MR Images Based on Fiber Bundles. , 2007, 10, 351-358.		39
2247	Findings in Schizophrenia by Tract-Oriented DT-MRI Analysis. Lecture Notes in Computer Science, 2008, 11, 917-924.	1.0	13
2248	Extracting Tractosemas from a Displacement Probability Field for Tractography in DW-MRI. Lecture Notes in Computer Science, 2008, 11, 9-16.	1.0	22
2249	Imaging Modalities in Brain Tumors. , 2011, , 13-33.		42
2250	Neural Tractography Using an Unscented Kalman Filter. Lecture Notes in Computer Science, 2009, 21, 126-138.	1.0	29
2251	Multi-fiber Reconstruction from DW-MRI Using a Continuous Mixture of Hyperspherical von Mises-Fisher Distributions. Lecture Notes in Computer Science, 2009, 21, 139-150.	1.0	9
2252	Cortical Correspondence with Probabilistic Fiber Connectivity. Lecture Notes in Computer Science, 2009, 21, 651-663.	1.0	20
2253	Think Global, Act Local; Projectome Estimation with BlueMatter. Lecture Notes in Computer Science, 2009, 12, 861-868.	1.0	26
2254	Local White Matter Geometry Indices from Diffusion Tensor Gradients. Lecture Notes in Computer Science, 2009, 12, 345-352.	1.0	2
2255	Metrics for Uncertainty Analysis and Visualization of Diffusion Tensor Images. Lecture Notes in Computer Science, 2010, , 179-190.	1.0	11
2256	A Fiducial-Based Tangible User Interface for White Matter Tractography. Lecture Notes in Computer Science, 2010, , 373-381.	1.0	5

#	ARTICLE	IF	CITATIONS
2257	An Introduction to Magnetic Resonance Imaging: From Image Acquisition to Clinical Diagnosis. <i>Studies in Computational Intelligence</i> , 2011, , 127-161.	0.7	5
2258	Network Connectivity via Inference over Curvature-Regularizing Line Graphs. <i>Lecture Notes in Computer Science</i> , 2011, , 65-78.	1.0	1
2259	Adaptive Riemannian Metrics for Improved Geodesic Tracking of White Matter. <i>Lecture Notes in Computer Science</i> , 2011, 22, 13-24.	1.0	18
2260	White Matter Bundle Registration and Population Analysis Based on Gaussian Processes. <i>Lecture Notes in Computer Science</i> , 2011, 22, 320-332.	1.0	36
2261	A Polynomial Approach for Maxima Extraction and Its Application to Tractography in HARDI. <i>Lecture Notes in Computer Science</i> , 2011, 22, 723-734.	1.0	5
2262	Towards Resolving Fiber Crossings with Higher Order Tensor inpainting. <i>Mathematics and Visualization</i> , 2012, , 253-265.	0.4	10
2263	Interactive Control of Mesh Topology in Quadrilateral Mesh Generation Based on 2D Tensor Fields. <i>Lecture Notes in Computer Science</i> , 2012, , 726-735.	1.0	1
2264	Beyond Crossing Fibers: Tractography Exploiting Sub-voxel Fibre Dispersion and Neighbourhood Structure. <i>Lecture Notes in Computer Science</i> , 2013, 23, 402-413.	1.0	16
2265	Geodesic Shape Regression in the Framework of Currents. <i>Lecture Notes in Computer Science</i> , 2013, 23, 718-729.	1.0	19
2266	New insights into the neurobiology of language from functional brain imaging. , 2011, , 131-143.		2
2267	Automatic Segmentation of the Optic Radiation Using DTI in Healthy Subjects and Patients with Glaucoma. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011, , 1-15.	0.1	1
2268	Medical Image Computing and Computer-Assisted Intervention “MICCAI 2004. <i>Lecture Notes in Computer Science</i> , 2004, 3216/2004, 368-375.	1.0	54
2269	Foundations of advanced magnetic resonance imaging. <i>Neurotherapeutics</i> , 2005, 2, 167-196.	2.1	1
2270	A systematic comparison of structural-, structural connectivity-, and functional connectivity-based thalamus parcellation techniques. <i>Brain Structure and Function</i> , 2020, 225, 1631-1642.	1.2	25
2271	Determining skeletal muscle architecture with Laplacian simulations: a comparison with diffusion tensor imaging. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1845-1855.	1.4	18
2272	Diffusion Tensor MRI Visualization. , 2005, , 327-340.		10
2273	Three-Dimensional Atlas of Brain White Matter Tracts. , 2005, , 15-31.		131
2274	The human cingulum: From the limbic tract to the connectionist paradigm. <i>Neuropsychologia</i> , 2020, 144, 107487.	0.7	23

#	ARTICLE	IF	CITATIONS
2276	Chapter 11. Gel Phantoms for Diffusion MRI Studies. <i>New Developments in NMR</i> , 2020, , 379-400.	0.1	1
2277	Imaging for Epilepsy Surgery. <i>Seminars in Neurology</i> , 2017, 37, 580-588.	0.5	2
2278	Neurosurgical applications of tractography in the UK. <i>British Journal of Neurosurgery</i> , 2021, 35, 424-429.	0.4	7
2279	Alterations in Network Connectivity after Traumatic Brain Injury in Mice. <i>Journal of Neurotrauma</i> , 2020, 37, 2169-2179.	1.7	11
2280	Preoperative transcranial magnetic stimulation for picture naming is reliable in mapping segments of the arcuate fasciculus. <i>Brain Communications</i> , 2020, 2, fcaa158.	1.5	20
2281	Anisotropic Diffusion: From the Apparent Diffusion Coefficient to the Apparent Diffusion Tensor. , 2010, , 79-91.		4
2294	A nonparametric Riemannian framework for processing high angular resolution diffusion images (HARDI). , 2009, , .		7
2295	Imaging connectivity: MRI and the structural networks of the brain. <i>Functional Neurology</i> , 2013, 28, 197-203.	1.3	24
2296	Functional magnetic resonance imaging in disorders of consciousness: preliminary results of an innovative analysis of brain connectivity. <i>Functional Neurology</i> , 2015, 30, 193-201.	1.3	10
2297	Performance of a Nitinol Honeycomb Stent for the Management of Atherosclerotic Aortic Plaque: Crimping, Sealing, and Fluid-Structure Interaction Analysis. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	1
2298	Deep learning estimation of multi-tissue constrained spherical deconvolution with limited single shell DW-MRI. , 2020, 11313, .		11
2299	A diffusion tensor magnetic resonance imaging study of frontal cortex connections in very-late-onset schizophrenia-like psychosis. <i>American Journal of Geriatric Psychiatry</i> , 2005, 13, 1092-9.	0.6	42
2300	ERRATA. <i>Neurosurgery</i> , 2013, 73, E913.	0.6	44
2301	Integrating Functional and Diffusion Magnetic Resonance Imaging for Analysis of Structure-Function Relationship in the Human Language Network. <i>PLoS ONE</i> , 2009, 4, e6660.	1.1	56
2302	Altered Anatomical Network in Early Blindness Revealed by Diffusion Tensor Tractography. <i>PLoS ONE</i> , 2009, 4, e7228.	1.1	127
2303	Chimpanzee (<i>Pan troglodytes</i>) Precentral Corticospinal System Asymmetry and Handedness: A Diffusion Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2010, 5, e12886.	1.1	34
2304	Impaired Structural Motor Connectome in Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2011, 6, e24239.	1.1	124
2305	Topography of the Chimpanzee Corpus Callosum. <i>PLoS ONE</i> , 2012, 7, e31941.	1.1	27

#	ARTICLE	IF	CITATIONS
2306	Improving DTI Tractography by including Diagonal Tract Propagation. PLoS ONE, 2012, 7, e43415.	1.1	25
2307	Altered Topological Organization of White Matter Structural Networks in Patients with Neuromyelitis Optica. PLoS ONE, 2012, 7, e48846.	1.1	37
2308	Evaluation of Diffusion-Tensor Imaging-Based Global Search and Tractography for Tumor Surgery Close to the Language System. PLoS ONE, 2013, 8, e50132.	1.1	13
2309	Individual Differences in Fornix Microstructure and Body Mass Index. PLoS ONE, 2013, 8, e59849.	1.1	36
2310	MRI of Neuronal Recovery after Low-Dose Methamphetamine Treatment of Traumatic Brain Injury in Rats. PLoS ONE, 2013, 8, e61241.	1.1	17
2311	Characterizing Brain Structures and Remodeling after TBI Based on Information Content, Diffusion Entropy. PLoS ONE, 2013, 8, e76343.	1.1	19
2312	Brain without Anatomy: Construction and Comparison of Fully Network-Driven Structural MRI Connectomes. PLoS ONE, 2014, 9, e96196.	1.1	23
2313	Peripheral Nerve Diffusion Tensor Imaging: Assessment of Axon and Myelin Sheath Integrity. PLoS ONE, 2015, 10, e0130833.	1.1	95
2314	Impact of MR Acquisition Parameters on DTI Scalar Indexes: A Tractography Based Approach. PLoS ONE, 2015, 10, e0137905.	1.1	60
2315	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. PLoS ONE, 2016, 11, e0149778.	1.1	11
2316	Effects of Orientation and Anisometry of Magnetic Resonance Imaging Acquisitions on Diffusion Tensor Imaging and Structural Connectomes. PLoS ONE, 2017, 12, e0170703.	1.1	6
2317	White-Matter Pathways for Statistical Learning of Temporal Structures. ENeuro, 2018, 5, ENEURO.0382-17.2018.	0.9	4
2319	EPILEPSY AND MIGRAINE: NEUROIMAGING AND NEUROPATHOPHYSIOLOGICAL PARALLELS. Epilepsy and Paroxysmal Conditions, 2015, 7, 18-25.	0.2	1
2320	IMMUNOLOGICAL CAUSES OF BAD OBSTETRIC HISTORY. Journal of Evidence Based Medicine and Healthcare, 2014, 1, 2086-2099.	0.0	3
2321	Diffusion Tensor Imaging in Preclinical and Human Studies of Huntington's Disease: What Have we Learned so Far?. Current Medical Imaging, 2019, 15, 521-542.	0.4	14
2322	In Vivo Mapping of Fiber Pathways in the Rhesus Monkey Brain. The Open Medical Imaging Journal, 2008, 2, 32-41.	0.8	7
2323	Long-Term Monitoring of Post-Stroke Plasticity After Transient Cerebral Ischemia in Mice Using In Vivo and Ex Vivo Diffusion Tensor MRI. Open Neuroimaging Journal, 2007, 1, 10-17.	0.2	42
2324	Comparison of In Vivo and Ex Vivo Diffusion Tensor Imaging in Rhesus Macaques at Short and Long Diffusion Times. Open Neuroimaging Journal, 2011, 5, 172-178.	0.2	21

#	ARTICLE	IF	CITATIONS
2325	Multi-tensor Tractography of the Motor Pathway at 3T: A Volunteer Study. <i>Magnetic Resonance in Medical Sciences</i> , 2011, 10, 59-63.	1.1	7
2326	Automatic Extraction of the Cingulum Bundle in Diffusion Tensor Tract-specific Analysis: Feasibility Study in Parkinson's Disease with and without Dementia. <i>Magnetic Resonance in Medical Sciences</i> , 2013, 12, 201-213.	1.1	3
2327	Multi-shelled q-ball Imaging: Moment-based Orientation Distribution Function. <i>Magnetic Resonance in Medical Sciences</i> , 2010, 9, 119-129.	1.1	2
2328	White Matter Tract-Cognitive Relationships in Children with High-Functioning Autism Spectrum Disorder. <i>Psychiatry Investigation</i> , 2019, 16, 220-233.	0.7	8
2329	Accuracy of diffusion tensor magnetic resonance imaging tractography assessed using intraoperative subcortical stimulation mapping and magnetic source imaging. <i>Journal of Neurosurgery</i> , 2007, 107, 488-494.	0.9	203
2330	Data-driven approaches for identifying links between brain structure and function in health and disease. <i>Dialogues in Clinical Neuroscience</i> , 2018, 20, 87-99.	1.8	32
2331	Diffusion tensor imaging in Alzheimer's disease and mild cognitive impairment. <i>Behavioural Neurology</i> , 2009, 21, 39-49.	1.1	133
2332	Changes in parahippocampal white matter integrity in amnesic mild cognitive impairment: a diffusion tensor imaging study. <i>Behavioural Neurology</i> , 2009, 21, 51-61.	1.1	35
2333	Neuronal Fiber-tracking via optimal mass transportation. <i>Communications on Pure and Applied Analysis</i> , 2012, 11, 2157-2177.	0.4	1
2334	Variational denoising of diffusion weighted MRI. <i>Inverse Problems and Imaging</i> , 2009, 3, 625-648.	0.6	21
2335	Total variation and wavelet regularization of orientation distribution functions in diffusion MRI. <i>Inverse Problems and Imaging</i> , 2013, 7, 565-583.	0.6	6
2336	An improved fiber tracking algorithm based on fiber assignment using the continuous tracking algorithm and two-tensor model. <i>Neural Regeneration Research</i> , 2012, 7, 1667-74.	1.6	1
2337	Diffusion weighted magnetic resonance imaging and its recent trend-a survey. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 407-22.	1.1	113
2338	Magnetic resonance diffusion tensor imaging and diffusion tensor tractography of human visual pathway. <i>International Journal of Ophthalmology</i> , 2012, 5, 452-8.	0.5	17
2339	Magnetic resonance imaging and cell-based neurorestorative therapy after brain injury. <i>Neural Regeneration Research</i> , 2016, 11, 7.	1.6	3
2340	Role of diffusion tensor imaging in brain tumor surgery. <i>Journal of Innovative Optical Health Sciences</i> , 2018, 13, 302-306.	0.5	37
2341	Flow Dynamics in Restricted Geometries: A Mathematical Concept Based on Bloch NMR Flow Equation and Boubaker Polynomial Expansion Scheme. <i>Journal of Applied Mathematics and Physics</i> , 2013, 01, 71-78.	0.2	1
2342	Diffusion tensor tractography of the arcuate fasciculus in patients with brain tumors: Comparison between deterministic and probabilistic models. <i>Journal of Biomedical Science and Engineering</i> , 2013, 06, 192-200.	0.2	36

#	ARTICLE	IF	CITATIONS
2343	Diffusion Tensor Imaging and Its Application to Traumatic Brain Injury: Basic Principles and Recent Advances. <i>Open Journal of Medical Imaging</i> , 2012, 02, 137-161.	0.1	7
2344	Cosine series representation of 3D curves and its application to white matter fiber bundles in diffusion tensor imaging. <i>Statistics and Its Interface</i> , 2010, 3, 69-80.	0.2	45
2345	Quantitative study of prostate cancer using three dimensional fiber tractography. <i>World Journal of Radiology</i> , 2016, 8, 397.	0.5	6
2348	Quantification of white matter fibre pathways disruption in frontal transcortical approach to the lateral ventricle or the interventricular foramen in diffusion tensor tractography. <i>Folia Morphologica</i> , 2014, 73, 129-138.	0.4	9
2349	Functional Brain Imaging Using Non-Invasive Non-Ionizing Methods: Towards Multimodal and Multiscale Imaging. , 0, , .		3
2350	Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. <i>ELife</i> , 2020, 9, .	2.8	71
2351	Alterations in fiber pathways reveal brain tumor typology: a diffusion tractography study. <i>PeerJ</i> , 2014, 2, e497.	0.9	19
2352	Procrustes Analysis for Diffusion Tensor Image Processing. <i>International Journal of Computer Theory and Engineering</i> , 2013, , 108-113.	3.2	5
2353	Abnormal network properties and fiber connections of DMN across major mental disorders: a probability tracing and graph theory study. <i>Cerebral Cortex</i> , 2022, 32, 3127-3136.	1.6	7
2355	Joint Analysis of Functional and Structural Connectomes Between Preterm and Term Infant Brains via Canonical Correlation Analysis With Locality Preserving Projection. <i>Frontiers in Neuroscience</i> , 2021, 15, 724391.	1.4	4
2356	Development of novel anisotropic skin simulants. <i>Physica Scripta</i> , 2021, 96, 125019.	1.2	20
2357	Orbital MRI. , 2022, , 103-111.		1
2358	Striatal topographical organization: Bridging the gap between molecules, connectivity and behavior. <i>European Journal of Histochemistry</i> , 2021, 65, .	0.6	7
2359	Effects of Piano Training in Unilateral Cerebral Palsy Using Probabilistic and Deterministic Tractography: A Case Report. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 622082.	1.0	1
2360	Neurovisualization features of brain anatomy in children with spastic cerebral palsy revealed by magnetic resonance tractography. <i>Bulletin of Siberian Medicine</i> , 2021, 20, 54-61.	0.1	0
2361	Structural Brain Network Reproducibility: Influence of Different Diffusion Acquisition and Tractography Reconstruction Schemes on Graph Metrics. <i>Brain Connectivity</i> , 2022, 12, 754-767.	0.8	7
2362	Tractography methods and findings in brain tumors and traumatic brain injury. <i>NeuroImage</i> , 2021, 245, 118651.	2.1	28
2364	Magnetic Resonance: Applications in Dementia. , 2002, , 5-25.		0

#	ARTICLE	IF	CITATIONS
2365	MRI Measurement of Cerebral Water Diffusion and Its Application to Experimental Research. <i>Frontiers in Neuroscience</i> , 2002, , 55-91.	0.0	0
2366	The Past, Present And Future Of Magnetic Resonance Imaging. , 2003, , 283-294.		1
2367	The Grey Matter Component of MS Pathology: Magnetization Transfer and Diffusion-Weighted Imaging. , 2004, , 121-127.		0
2368	Improved Fiber Tracking for Diffusion Tensor MRI. <i>Lecture Notes in Computer Science</i> , 2004, , 171-178.	1.0	1
2369	Conductivity Imaging of the Brain Using Diffusion Tensor Magnetic Resonance Imaging. <i>Journal of the Magnetics Society of Japan</i> , 2004, 28, 649-656.	0.4	1
2370	Color Rapid Prototyping for Diffusion-Tensor MRI Visualization. <i>Lecture Notes in Computer Science</i> , 2004, , 1076-1078.	1.0	2
2371	Anatomical Connectivity in the Central Nervous System Revealed by Diffusion Tensor Magnetic Resonance Imaging (DT-MRI). <i>Biocomputing</i> , 2004, , 145-169.	0.2	0
2372	A Visualization of the Neural Pathway from DT-MRI data set. <i>Journal of the Visualization Society of Japan</i> , 2004, 24, 451-452.	0.0	0
2373	MR Diffusion and Perfusion Imaging in Epilepsy. , 2005, , 315-332.		1
2374	Image Deformation Using Velocity Fields: An Exact Solution. <i>Lecture Notes in Computer Science</i> , 2005, , 439-446.	1.0	0
2375	Building Statistical Atlas of White Matter Fiber Tract Based on Vector/Tensor Field Reconstruction in Diffusion Tensor MRI. <i>Lecture Notes in Computer Science</i> , 2005, , 84-91.	1.0	1
2376	Oriented Tensor Reconstructionâ€™s Portions reprinted, with permission, from Zhukov and Barr [26]. Copyright © 2002, IEEE.. , 2005, , 313-326.		2
2377	Nerve Pathways with MR Tractography. , 2006, , 79-90.		0
2378	Imaging structural and functional connectivity of the human thalamus. <i>Future Neurology</i> , 2006, 1, 153-157.	0.9	0
2379	Insights into Brain Connectivity Using Quantitative MRI Measures of White Matter. <i>Understanding Complex Systems</i> , 2007, , 221-271.	0.3	2
2380	Changes in Diffusion Properties of Biological Tissues Associated with Mechanical Strain. <i>Journal of the Magnetics Society of Japan</i> , 2007, 31, 283-287.	0.4	0
2381	Visualizing Anisotropic Structures in Brain Based on Diffusion Tensor Tractography. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2008, 128, 20-22.	0.0	0
2382	A Slicing-Based Coherence Measure for Clusters of DTI Integral Curves. <i>Lecture Notes in Computer Science</i> , 2008, 11, 1051-1059.	1.0	0

#	ARTICLE	IF	CITATIONS
2383	Diffusion Imaging of Brain Tumors. , 2008, , 239-247.		1
2384	Magnetic Resonance Image-Guided Neurosurgery—Reproduced from the first edition, Handbook of Neuro-Oncology Neuroimaging, ed. F. Jolesz and H. Newton, Academic Press, 2007.. , 2008, , 205-215.		1
2385	Magnetic Resonance Image Guided Neurosurgery. , 2008, , 171-180.		0
2386	Advanced Magnetic Resonance Neuroimaging Techniques in the Neonate with a Focus on Hemodynamic-related Brain Injury. , 2008, , 133-146.		0
2387	A Mixture of Wisharts (MOW) Model for Multifiber Reconstruction. Mathematics and Visualization, 2009, , 39-56.	0.4	3
2388	Diffusion Tensor Imaging and Fiber Tractography. , 2009, , 229-246.		0
2389	Practical and Intuitive Basis for Tensor Field Processing with Invariant Gradients and Rotation Tangents. Advances in Pattern Recognition, 2009, , 299-314.	0.8	1
2390	The Wada Test-60th Year Anniversary Update-In Epilepsy Surgery. , 2009, , 2587-2616.		0
2391	Diffusion Tensor Imaging and MR-Tractography for Characteristic of Microstructural Integrity of White Matter in Patients with Parkinson's Disease (PD). IFMBE Proceedings, 2009, , 766-768.	0.2	0
2392	Cardiac Fibre Trace Clustering for the Interpretation of the Human Heart Architecture. Lecture Notes in Computer Science, 2009, , 39-48.	1.0	1
2393	Information Theoretic Methods for Diffusion-Weighted MRI Analysis. Lecture Notes in Computer Science, 2009, , 327-346.	1.0	1
2394	Fiber Segmentation Using Constrained Clustering. Lecture Notes in Computer Science, 2010, , 1-10.	1.0	0
2396	Asymmetry of White Matter Pathways. , 2010, , 177-210.		0
2397	Telencefalo: neocortex. , 2010, , 491-679.		1
2398	A Novel White Matter Fibre Tracking Algorithm Using Probabilistic Tractography and Average Curves. Lecture Notes in Computer Science, 2010, 13, 666-673.	1.0	3
2400	A Hebbian Learning Approach for Diffusion Tensor Analysis and Tractography. , 0, ,		1
2401	Parkinson's disease prediction using diffusion-based atlas approach. , 2010, ,		0
2402	Organisation topographique du corps calleux chez l'homme. Étude cartographique en imagerie par résonance magnétique fonctionnelle (f-IRM). Bulletin De L'Academie Nationale De Medecine, 2010, 194, 617-632.	0.0	4

#	ARTICLE	IF	CITATIONS
2403	Diffusion Tensor Imaging in Rat Models of Invasive Brain Tumors. , 2011, , 131-144.		0
2404	Diffusion-Tensor Imaging and Behavioral Medicine. , 2011, , 49-66.		0
2405	Denosing of brain DW-MR data by single and multiple diffusion kernels. Acta Universitaria, 2012, 20, 44-50.	0.2	0
2406	Imaging Effects of Hypertension on the Brain: A Focus on New Imaging Modalities and Options. , 2011, , 237-255.		0
2407	Introduction to Brain Imaging. Biological and Medical Physics Series, 2011, , 41-68.	0.3	1
2408	Diffusion Tensor Imaging of the Brain in Fetal Alcohol Spectrum Disorder. , 2011, , 2897-2913.		0
2409	Probabilistic Tractography Using Q-Ball Modeling and Particle Filtering. Lecture Notes in Computer Science, 2011, 14, 209-216.	1.0	7
2410	Visualisierung. , 2011, , 17-62.		0
2411	Parkinson's Disease Diagnosis and Prognosis Using Diffusion Tensor Medical Imaging Features Fusion. , 0, , .		0
2412	Multimodal functional neuronavigation and intraoperative imaging. , 2011, , 277-285.		0
2413	Fiber Tract Visualization and Intraoperative Functional Neuronavigation(<SPECIAL ISSUE>Operation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.0		0
2414	Mapping white matter pathways with diffusion imaging tractography: focus on neurosurgical applications. , 2011, , 61-75.		2
2415	Magnetic Resonance Tractography in Neuroradiological Diagnostic Aspects. , 0, , .		0
2417	A Comparative Analysis of Dimension Reduction Techniques for Representing DTI Fibers as 2D/3D Points. Mathematics and Visualization, 2012, , 171-185.	0.4	0
2418	Advanced Magnetic Resonance Neuroimaging Techniques in the Neonate with a Focus on Hemodynamic-Related Brain Injury. , 2012, , 187-198.		0
2421	Detailing Patient Specific Modeling to Aid Clinical Decision-Making. Lecture Notes in Computational Vision and Biomechanics, 2012, , 105-131.	0.5	1
2423	From Diffusion MRI to Brain Connectomics. , 2013, , 193-234.		2
2424	PrÄoperative fMRT-Diagnostik, Neuronavigation. , 2013, , 257-265.		0

#	ARTICLE	IF	CITATIONS
2425	Multi-resolution DT-MRI Cardiac Tractography. Lecture Notes in Computer Science, 2013, , 270-277.	1.0	0
2426	Adaptive Multi-modal Particle Filtering for Probabilistic White Matter Tractography. Lecture Notes in Computer Science, 2013, 23, 594-606.	1.0	3
2427	DTI and Tractography in the Autistic Brain. , 2013, , 267-279.		0
2428	PET/MR Instrumentation. , 2013, , 7-28.		0
2430	Analyzing and Reducing DTI Tracking Uncertainty by Combining Deterministic and Stochastic Approaches. Lecture Notes in Computer Science, 2013, , 266-279.	1.0	1
2431	Fetale Magnetresonanztomografie. , 2013, , 443-466.		0
2432	Quantifying Brain Morphology Using Diffusion Imaging. Series in Medical Physics and Biomedical Engineering, 2013, , 41-84.	0.1	0
2433	Language Acquisition. , 2014, , 179-191.		0
2434	Apparent Diffusion Coefficient Mapping Using a Multi-Shot Spiral MRI Sequence of the Rat Brain. Open Journal of Radiology, 2014, 04, 13-24.	0.1	0
2435	White Matter Brain Structure in Aspergerâ€™s Syndrome. , 2014, , 1905-1927.		1
2436	Diffusion MR Imaging of White Matter Pathways. Juntendo Medical Journal, 2014, 60, 100-106.	0.1	1
2439	Functionally Driven Brain Networks Using Multi-layer Graph Clustering. Lecture Notes in Computer Science, 2014, 17, 113-120.	1.0	5
2440	Visualization in Connectomics. Mathematics and Visualization, 2014, , 221-245.	0.4	13
2442	A Hybrid SaaS/Grid Architecture for Diffusion MRI in Brain Imaging Field. International Journal of Organizational and Collective Intelligence, 2014, 4, 24-58.	0.3	2
2443	Abdominosacral Resection for Rectal Cancer. , 2015, , 139-157.		0
2444	BundleMAP: Anatomically Localized Features from dMRI for Detection of Disease. Lecture Notes in Computer Science, 2015, , 52-60.	1.0	2
2445	Diffusion Tensor Imaging Predicts Motor Functional Outcome after Acute Hypertensive Intracerebral Hemorrhage. Journal of Cell Science & Therapy, 2015, 06, .	0.3	0
2446	Graph-Based Visualization of Neuronal Connectivity Using Matrix Block Partitioning and Edge Bundling. Lecture Notes in Computer Science, 2015, , 3-13.	1.0	2

#	ARTICLE	IF	CITATIONS
2448	A Framework for the Automation of Multimodalbrain Connectivity Analyses. Studies in Computational Intelligence, 2016, , 365-373.	0.7	0
2449	Neuroimaging of Hypertension and Related Cerebral Pathology. , 2016, , 315-342.		0
2450	Exploring Crossing Fibers of the Brainâ€™s White Matter Using Directional Regions of Interest. Mathematics and Visualization, 2016, , 179-194.	0.4	1
2451	Structural Brain Imaging and Internet Addiction. Studies in Neuroscience, Psychology and Behavioral Economics, 2017, , 37-58.	0.1	1
2452	High-Field Neuroimaging in Traumatic Brain Injury and Disorders of Consciousness. , 2017, , 199-210.		0
2453	Multi-way Regression Reveals Backbone of Macaque Structural Brain Connectivity in Longitudinal Datasets. Lecture Notes in Computer Science, 2017, , 424-432.	1.0	0
2454	Learning-Based Estimation of Functional Correlation Tensors in White Matter for Early Diagnosis of Mild Cognitive Impairment. Lecture Notes in Computer Science, 2017, 10530, 65-73.	1.0	0
2455	Neurobiological, Neurocomputational and Neuroimaging Aspects of Stress and Posttraumatic Stress Disorders' Studies (Review). Bulletin of the South Ural State University Series Psychology, 2017, 10, 106-120.	0.1	1
2456	Understanding Medical Images Based on Computational Anatomy Models. , 2017, , 151-284.		2
2457	Repeated Tractography of a Single Subject: How High Is the Variance?. Mathematics and Visualization, 2017, , 331-354.	0.4	1
2458	Nerve Pathways with MR Tractography. , 2017, , 89-111.		0
2459	Tensor Field Visualization. , 2017, , 1-9.		0
2462	ADNI Datasets and Pre-processing Protocols. Springer Theses, 2017, , 41-51.	0.0	0
2463	Joint Visualization of UKF Tractography Data. Lecture Notes in Computer Science, 2017, , 158-169.	1.0	0
2469	Spracherwerb. , 2018, , 245-262.		0
2470	Structural and functional changes in the central nervous system in the course of anorexia nervosa. Current Problems of Psychiatry, 2017, 18, 321-330.	0.1	1
2471	Fetale Magnetresonanztomographie. , 2018, , 499-524.		0
2472	Diffusion Orientation Histograms (DOH) for Diffusion Weighted Image Analysis. Mathematics and Visualization, 2018, , 91-99.	0.4	0

#	ARTICLE	IF	CITATIONS
2473	Strain map of the tongue in normal and ALS speech patterns from tagged and diffusion MRI. , 2018, 10574, .		5
2478	Differentiation of Edematous, Tumoral and Normal Areas of Brain Using Diffusion Tensor and Neurite Orientation Dispersion and Density Imaging. Journal of Biomedical Physics and Engineering, 0, , .	0.5	6
2479	Principles of Magnetic Resonance Imaging. , 2018, , 142-165.		0
2481	Overview of Medical Electronics for Physically Disabled. , 2019, , 89-104.		1
2484	Introduction to Brain Imaging. Biological and Medical Physics Series, 2019, , 47-70.	0.3	0
2487	Harmonizing 1.5T/3T diffusion weighted MRI through development of deep learning stabilized microarchitecture estimators. , 2019, 10949, .		5
2489	Prediction of postoperative deficits using an improved diffusion-weighted imaging maximum a posteriori probability analysis in pediatric epilepsy surgery. Journal of Neurosurgery: Pediatrics, 2019, 23, 648-659.	0.8	3
2499	Magnetic Resonance Imaging: Historical Overview, Technical Developments, and Clinical Applications. Progress in Medical Physics, 2020, 31, 35-53.	0.5	1
2500	Advanced Diffusion of the Pediatric Brain and Spine. Magnetic Resonance Imaging Clinics of North America, 2021, 29, 465-492.	0.6	2
2501	White Matter-Based Structural Brain Network of Anxiety. Advances in Experimental Medicine and Biology, 2020, 1191, 61-70.	0.8	7
2502	Notes on Techniques. , 2020, , 127-167.		0
2503	Optimizing the Linear Fascicle Evaluation Algorithm for Multi-core and Many-core Systems. ACM Transactions on Parallel Computing, 2020, 7, 1-45.	1.2	1
2505	Introduction to multiscale modeling of the human brain. , 2022, , 27-38.		0
2507	Visualizing the Placental Energy State in Vivo. Informatik Aktuell, 2020, , 268-273.	0.4	0
2509	Acquisition of Diffusion MRI Data. Advances in Magnetic Resonance Technology and Applications, 2020, 1, 477-507.	0.0	0
2510	Modeling Fiber Orientations Using Diffusion MRI. Advances in Magnetic Resonance Technology and Applications, 2020, 1, 509-532.	0.0	0
2511	Diffusion MRI Fiber Tractography. Advances in Magnetic Resonance Technology and Applications, 2020, 1, 533-569.	0.0	3
2512	Novel Cost Function Definition for Minimum-Cost Tractography in MR Diffusion Tensor Imaging. Advances in Experimental Medicine and Biology, 2020, 1194, 135-150.	0.8	0

#	ARTICLE	IF	CITATIONS
2513	Structural connectomics: Where we are and where we should be?. Advances in Magnetic Resonance Technology and Applications, 2021, , 41-63.	0.0	0
2514	Cardiac fiber tracking on super high-resolution CT images: a comparative study. Journal of Medical Imaging, 2020, 7, 1.	0.8	1
2515	A Stem-Based Dissection of Inferior Fronto-Occipital Fasciculus with A Deep Learning Model. , 2020, , .		4
2517	Quantitative Diffusion Imaging. , 2005, , 63-81.		0
2519	PHYSIOLOGICAL AND FUNCTIONAL MRI. , 2007, , 69-81.		0
2520	Overview of Diffusion Tensor Imaging in Multiple Sclerosis and Neuromyelitis Optica. , 2008, , 545-551.		0
2522	Brain, Head, and Neck. , 2008, , 169-533.		1
2523	Analysis and Improvement of Radial Spin-Echo Diffusion-Weighted Images. , 2007, , 1504-1508.		0
2524	Estimation of white matter tracts based on a directional diffusion function in DT-MRI. , 2007, , 2552-2555.		0
2525	A Study on the Fiber Tracking Using a Vector Correlation Function in MR-DTI. , 2007, , 2571-2574.		0
2526	Cocustering Based Parcellation of Human Brain Cortex Using Diffusion Tensor MRI. , 2007, , 539-550.		1
2527	Human Brain Anatomical Connectivity Analysis Using Sequential Sampling and Resampling. Lecture Notes in Computer Science, 2007, , 391-400.	1.0	0
2528	SMT: Split and Merge Tractography for DT-MRI. , 2007, 10, 153-160.		6
2529	Neuromodulation in the Age of Modern Neuroimaging Technologies. , 0, , .		0
2531	White matter tract microstructure and cognitive performance after transient ischemic attack. PLoS ONE, 2020, 15, e0239116.	1.1	9
2535	Visualization of White Matter Tracts with Wrapped Streamlines. , 0, , .		9
2538	A method for clustering white matter fiber tracts. American Journal of Neuroradiology, 2006, 27, 1032-6.	1.2	98
2551	Human brain functional MRI and DTI visualization with virtual reality. Quantitative Imaging in Medicine and Surgery, 2011, 1, 11-6.	1.1	12

#	ARTICLE	IF	CITATIONS
2557	Diffusion tensor imaging fiber tracking with reliable tracking orientation and flexible step size. <i>Neural Regeneration Research</i> , 2013, 8, 1481-90.	1.6	2
2560	Alzheimer's Disease in Down Syndrome. <i>European Journal of Neurodegenerative Disease</i> , 2012, 1, 353-364.	0.0	66
2563	Differentiation of Edematous, Tumoral and Normal Areas of Brain Using Diffusion Tensor and Neurite Orientation Dispersion and Density Imaging. <i>Journal of Biomedical Physics and Engineering</i> , 2018, 8, 251-260.	0.5	10
2564	Multi-View Graph Convolutional Network and Its Applications on Neuroimage Analysis for Parkinson's Disease. <i>AMIA ... Annual Symposium proceedings</i> , 2018, 2018, 1147-1156.	0.2	16
2565	Diffusion tensor MR imaging of high-grade cerebral gliomas. <i>American Journal of Neuroradiology</i> , 2002, 23, 520-7.	1.2	192
2566	Line-scan diffusion tensor imaging of the posttraumatic brain stem: changes with neuropathologic correlation. <i>American Journal of Neuroradiology</i> , 2006, 27, 70-3.	1.2	16
2567	Fiber density index correlates with reduced fractional anisotropy in white matter of patients with glioblastoma. <i>American Journal of Neuroradiology</i> , 2005, 26, 2183-6.	1.2	91
2568	FLAIR diffusion-tensor MR tractography: comparison of fiber tracking with conventional imaging. <i>American Journal of Neuroradiology</i> , 2005, 26, 591-7.	1.2	46
2569	Diffusion tensor tractography: exploring the cost-benefit ratio of incorporating CSF suppression into fiber tracing algorithms. <i>American Journal of Neuroradiology</i> , 2005, 26, 693-4.	1.2	0
2570	Diffusion tensor tractography-based group mapping of the pyramidal tract in relapsing-remitting multiple sclerosis patients. <i>American Journal of Neuroradiology</i> , 2007, 28, 278-82.	1.2	65
2571	Diffusion MR imaging in multiple sclerosis: technical aspects and challenges. <i>American Journal of Neuroradiology</i> , 2007, 28, 411-20.	1.2	43
2572	Topographic Filtering of Tractograms as Vector Field Flows. , 2019, 11766, 564-572.		0
2573	Multiple sclerosis: the role of MR imaging. <i>American Journal of Neuroradiology</i> , 2006, 27, 1165-76.	1.2	131
2574	White matter reorganization after surgical resection of brain tumors and vascular malformations. <i>American Journal of Neuroradiology</i> , 2006, 27, 1258-71.	1.2	76
2575	Diffusion tensor imaging of tract involvement in children with pontine tumors. <i>American Journal of Neuroradiology</i> , 2006, 27, 786-93.	1.2	64
2576	White matter correlates of sensorimotor synchronization in persistent developmental stuttering. <i>Journal of Communication Disorders</i> , 2022, 95, 106169.	0.8	4
2578	CHIASM, the human brain albinism and achiasma MRI dataset. <i>Scientific Data</i> , 2021, 8, 308.	2.4	6
2580	White matter association tracts underlying language and theory of mind: An investigation of 809 brains from the Human Connectome Project. <i>NeuroImage</i> , 2022, 246, 118739.	2.1	18

#	ARTICLE	IF	CITATIONS
2581	Structural reorganization of the white matter pathways of the brain in patients with spastic diplegia after translingual neurostimulation. <i>Translational Medicine</i> , 2021, 8, 27-34.	0.1	1
2582	Nonparametric D-R1-R2 distribution MRI of the living human brain. <i>NeuroImage</i> , 2021, 245, 118753.	2.1	14
2583	Functional Topography of the Human Subthalamic Nucleus: Relevance for Subthalamotomy in Parkinson's Disease. <i>Movement Disorders</i> , 2022, 37, 279-290.	2.2	23
2584	Along-tract analysis of the white matter is more informative about brain ageing, compared to whole-tract analysis. <i>Clinical Neurology and Neurosurgery</i> , 2021, 211, 107048.	0.6	3
2585	Early Onset Micromorphological Changes of Neuronal Fiber Bundles During Radiotherapy. <i>Journal of Magnetic Resonance Imaging</i> , 2021, , .	1.9	3
2586	A taxonomy of the brain's white matter: twenty-one major tracts for the 21st century. <i>Cerebral Cortex</i> , 2022, 32, 4524-4548.	1.6	17
2587	Guided Diffusion Tensor Tractography with GTRACT: A Validation Study. <i>The Insight Journal</i> , 2005, , .	0.2	0
2588	A White Matter Stochastic Tractography System. <i>The Insight Journal</i> , 2007, , .	0.2	0
2589	The diffusion MRI connectome. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, 4, 295-308.	0.0	0
2590	Incorporating outlier information into diffusion-weighted MRI modeling for robust microstructural imaging and structural brain connectivity analyses. <i>NeuroImage</i> , 2022, 247, 118802.	2.1	3
2591	Visualization of Diffusion Tensor Imaging (DTI) For Brain Tumor Diagnosis. , 2020, , .		0
2592	Determination of Fiber Tracts on the Diffusion Phantom Using Q-Routing Method. , 2020, , .		0
2593	Deep Diffusion MRI Registration (DDMReg): A Deep Learning Method for Diffusion MRI Registration. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 1454-1467.	5.4	10
2594	Right arcuate fasciculus and left uncinate fasciculus abnormalities in young smoker. <i>Addiction Biology</i> , 2022, 27, e13132.	1.4	2
2595	Computationally designed dual-color MRI reporters for noninvasive imaging of transgene expression. <i>Nature Biotechnology</i> , 2022, 40, 1143-1149.	9.4	18
2596	Cognitive Improvement via Left Angular Gyrus-Navigated Repetitive Transcranial Magnetic Stimulation Inducing the Neuroplasticity of Thalamic System in Amnesic Mild Cognitive Impairment Patients. <i>Journal of Alzheimer's Disease</i> , 2022, 86, 537-551.	1.2	8
2600	Quantitative mapping of the brain's structural connectivity using diffusion MRI tractography: A review. <i>NeuroImage</i> , 2022, 249, 118870.	2.1	95
2601	Volumetric segmentation of white matter tracts with label embedding. <i>NeuroImage</i> , 2022, 250, 118934.	2.1	9

#	ARTICLE	IF	CITATIONS
2602	Controversy over the temporal cortical terminations of the left arcuate fasciculus: a reappraisal. <i>Brain</i> , 2022, 145, 1242-1256.	3.7	23
2603	Associations of Behavioral Problems and White Matter Properties of the Cerebellar Peduncles in Boys and Girls Born Full Term and Preterm. <i>Cerebellum</i> , 2023, 22, 163-172.	1.4	4
2604	Quantitative parameters of diffusion tensor imaging in the evaluation of carpal tunnel syndrome. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, 12, 3379-3390.	1.1	1
2605	A Tractometry Investigation of White Matter Tract Network Structure and Relationships with Cognitive Function in Relapsing-Remitting Multiple Sclerosis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2606	A tractometry principal component analysis of white matter tract network structure and relationships with cognitive function in relapsing-remitting multiple sclerosis. <i>NeuroImage: Clinical</i> , 2022, 34, 102995.	1.4	1
2607	Evolution of Spinal Cord Transection of Rhesus Monkey Implanted with Polymer Synthesized by Plasma Evaluated by Diffusion Tensor Imaging. <i>Polymers</i> , 2022, 14, 962.	2.0	5
2608	Performance of orientation distribution functionâ€ƒfingerprinting with a biophysical multicompartiment diffusion model. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 418-435.	1.9	3
2609	Network analysis shows decreased ipsilesional structural connectivity in glioma patients. <i>Communications Biology</i> , 2022, 5, 258.	2.0	6
2610	Spatiotemporal changes in along-tract profilometry of cerebellar peduncles in cerebellar mutism syndrome. <i>NeuroImage: Clinical</i> , 2022, 35, 103000.	1.4	3
2611	Distinctive neural correlates of phonological and reading impairment in fetal alcohol-exposed adolescents with and without facial dysmorphology. <i>Neuropsychologia</i> , 2022, 169, 108188.	0.7	4
2612	Group-Wise Cortical Surface Parcellation Based on Inter-Subject Fiber Clustering. , 2021, 2021, 2655-2659.		1
2613	Graph Theory-Based Brain Network Connectivity Analysis and Classification of Alzheimerâ€™s Disease. <i>International Journal of Image and Graphics</i> , 0, , .	1.2	0
2614	Cognitive and functional deficits are associated with white matter abnormalities in two independent cohorts of patients with schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2022, 272, 957-969.	1.8	10
2617	Association Between Functional and Structural Brain Connectivity of the Default Mode Network in Non-treatment Seeking Individuals With Alcohol Use Disorder. <i>Alcohol and Alcoholism</i> , 2022, 57, 540-551.	0.9	4
2619	Magnetic resonance imaging and diffusion tensor imaging reconstruction of connectomes in a macropod, the quokka (<i>Setonix brachyurus</i>). <i>Journal of Comparative Neurology</i> , 2022, , .	0.9	0
2620	Measurement of Full Diffusion Tensor Distribution Using High-Gradient Diffusion MRI and Applications in Diffuse Gliomas. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	1
2622	A transfer learning approach to few-shot segmentation of novel white matter tracts. <i>Medical Image Analysis</i> , 2022, 79, 102454.	7.0	12
2623	Resolution and b value dependent structural connectome in ex vivo mouse brain. <i>NeuroImage</i> , 2022, 255, 119199.	2.1	10

#	ARTICLE	IF	CITATIONS
2624	CHAPTER 7. Quantification of Articular Cartilage Microstructure by the Analysis of the Diffusion Tensor. <i>New Developments in NMR</i> , 0, , 191-224.	0.1	0
2625	Evaluation of Fiber Clustering Methods for Diffusion Tensor Imaging. , 0, , .		20
2626	Integrated 3D Visualization of fMRI and DTI tractography. , 0, , .		0
2640	Bridging Naturalistic Stimuli, Eye Movement And Brain Activity Via Cca And Locality Preserving Projection. , 2022, , .		0
2641	Model and Predict Age and Sex in Healthy Subjects Using Brain White Matter Features: A Deep Learning Approach. , 2022, , .		4
2642	A Convolutional Wasserstein Distance for Tractography Evaluation: Complementarity Study to State-of-the-Art Measures. , 2022, , .		0
2643	Superior Longitudinal Fasciculus: A Review of the Anatomical Descriptions With Functional Correlates. <i>Frontiers in Neurology</i> , 2022, 13, 794618.	1.1	41
2644	An efficient and uniformly behaving streamline-based $\frac{1}{4}$ CT fibre tracking algorithm using volume-wise structure tensor and signal processing techniques. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 394, 114898.	3.4	2
2645	Translational Magnetic Resonance Imaging in Autism Spectrum Disorder From the Mouse Model to Human. <i>Frontiers in Neuroscience</i> , 2022, 16, 872036.	1.4	3
2646	TractNet: A Deep Learning Approach on 3D Curves for Segmenting White Matter Fibre Bundles. , 2021, , .		1
2647	Alterations in Structural and Functional Connectivity in ADHD: Implications for Theories of ADHD. <i>Current Topics in Behavioral Neurosciences</i> , 2022, , 445-481.	0.8	5
2648	Functional and morphological reorganization of the brain following spinal cord injury: Insights from MRI. , 2022, , 327-338.		0
2651	White matter microstructure in autism. , 2022, , 127-156.		0
2652	MR Fingerprinting with Tensor Encoding for Simultaneous Quantification of Relaxation and Diffusion in a Single Scan. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2043-2057.	1.9	11
2653	Automated quantification of brain connectivity in Alzheimer's disease using ClusterMetric. <i>Neuroscience Letters</i> , 2022, , 136724.	1.0	0
2654	Cross-attractor repertoire provides new perspective on structure-function relationship in the brain. <i>NeuroImage</i> , 2022, 259, 119401.	2.1	10
2655	Volumetric and structural connectivity abnormalities co-localise in TLE. <i>NeuroImage: Clinical</i> , 2022, 35, 103105.	1.4	5
2656	A groupwise registration and tractography framework for cardiac myofiber architecture description by diffusion MRI: An application to the ventricular junctions. <i>PLoS ONE</i> , 2022, 17, e0271279.	1.1	2

#	ARTICLE	IF	CITATIONS
2657	Alcohol use disorder: Neuroimaging evidence for accelerated aging of brain morphology and hypothesized contribution to age-related dementia. <i>Alcohol</i> , 2023, 107, 44-55.	0.8	7
2658	Structural network alterations induced by ART-naive and ART-treated subjects infected with HIV. <i>Biochemical and Biophysical Research Communications</i> , 2022, 622, 115-121.	1.0	1
2659	Cumulant expansion with localization: A new representation of the diffusion MRI signal. , 0, 1, .		4
2660	Decomposing the role of alpha oscillations during brain maturation. <i>ELife</i> , 0, 11, .	2.8	19
2661	DACO: Distortion/artefact correction for diffusion MRI data. <i>NeuroImage</i> , 2022, 262, 119571.	2.1	2
2662	Association of Blood Pressure Lowering Intensity With White Matter Network Integrity in Patients With Cerebral Small Vessel Disease. <i>Neurology</i> , 2022, 99, .	1.5	4
2663	Imaging the human brain on oral contraceptives: A review of structural imaging methods and implications for future research goals. <i>Frontiers in Neuroendocrinology</i> , 2022, 67, 101031.	2.5	4
2664	Tractography indicates lateralized differences between trigeminal and olfactory pathways. <i>NeuroImage</i> , 2022, 261, 119518.	2.1	2
2665	CTtrack: A CNN+Transformer-based framework for fiber orientation estimation & tractography. <i>Neuroscience Informatics</i> , 2022, 2, 100099.	2.8	3
2666	Imaging and measuring diffusion in brain tumours. , 2022, , 351-372.		0
2667	Visual mental imagery: Inside the mind's eyes. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2022, , 145-160.	1.0	3
2668	One-Shot Segmentation of Novel White Matter Tracts via Extensive Data Augmentation. <i>Lecture Notes in Computer Science</i> , 2022, , 133-142.	1.0	3
2669	Transformer-Based Framework for Fiber Orientation Estimation & Tractography. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2670	TractoFormer: A Novel Fiber-Level Whole Brain Tractography Analysis Framework Using Spectral Embedding and Vision Transformers. <i>Lecture Notes in Computer Science</i> , 2022, , 196-206.	1.0	4
2671	Diffusion magnetic resonance imaging in brain tumours. , 2022, , 319-349.		0
2672	Open Approaches to Intraventricular Tumors, Colloid Cysts, and the Subcortical Space. , 2022, , 79-97.		0
2674	Magnetic resonance imaging of the dopamine system in schizophrenia – A scoping review. <i>Frontiers in Psychiatry</i> , 0, 13, .	1.3	4
2675	Transdiagnostic profiles of behaviour and communication relate to academic and socioemotional functioning and neural white matter organisation. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2023, 64, 217-233.	3.1	5

#	ARTICLE	IF	CITATIONS
2676	Association between attention-deficit/hyperactivity disorder symptom severity and white matter integrity moderated by in-scanner head motion. <i>Translational Psychiatry</i> , 2022, 12, .	2.4	1
2677	High-resolution multi-shot diffusion-weighted MRI combining markerless prospective motion correction and locally low-rank constrained reconstruction. <i>Magnetic Resonance in Medicine</i> , 2023, 89, 605-619.	1.9	4
2678	Advanced spinal cord MRI in multiple sclerosis: Current techniques and future directions. <i>NeuroImage: Clinical</i> , 2022, 36, 103244.	1.4	10
2679	DWI Physics and Imaging Techniques. , 2022, , 31-46.		0
2680	Fractional anisotropy values of brain matter among healthy children: cohort study. <i>Diagnostic Radiology and Radiotherapy</i> , 2022, 13, 7-17.	0.0	0
2681	BrainGB: A Benchmark for Brain Network Analysis With Graph Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 493-506.	5.4	20
2682	The mean diffusivity of forceps minor is useful to distinguish amnesic mild cognitive impairment from mild cognitive impairment caused by cerebral small vessel disease. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	1.0	1
2683	Examining Shared Reading and White Matter Organization in Kindergarten in Relation to Subsequent Language and Reading Abilities: A Longitudinal Investigation. <i>Journal of Cognitive Neuroscience</i> , 2023, 35, 259-275.	1.1	3
2684	A comparison of diffusion tensor imaging tractography and constrained spherical deconvolution with automatic segmentation in traumatic brain injury. <i>NeuroImage: Clinical</i> , 2023, 37, 103284.	1.4	6
2685	Tractometric Coherence of Fiber Bundles in DTI. <i>Lecture Notes in Computer Science</i> , 2022, , 137-148.	1.0	0
2686	TractoInferno - A large-scale, open-source, multi-site database for machine learning dMRI tractography. <i>Scientific Data</i> , 2022, 9, .	2.4	11
2687	Visualization of human optic nerve by diffusion tensor mapping and degree of neuropathy. <i>PLoS ONE</i> , 2022, 17, e0278987.	1.1	0
2688	Simulations of cortical networks using spatially extended conductance-based neuronal models. <i>Journal of Physiology</i> , 2023, 601, 3123-3139.	1.3	6
2689	Altered White Matter Microstructure in Herpes Zoster and Postherpetic Neuralgia Determined by Automated Fiber Quantification. <i>Brain Sciences</i> , 2022, 12, 1668.	1.1	1
2690	Undersampled Single-Shell to MSMT fODF Reconstruction using CNN-based ODE Solver. <i>Computer Methods and Programs in Biomedicine</i> , 2023, , 107339.	2.6	0
2692	A unified global tractography framework for automatic visual pathway reconstruction. <i>NMR in Biomedicine</i> , 0, , .	1.6	1
2694	Insult to Short-range White Matter Connectivity in Childhood Brain Tumor Survivors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2023, , .	0.4	0
2695	A Riemannian Framework for Structurally Curated Functional Clustering of Brain White Matter Fibers. <i>IEEE Transactions on Medical Imaging</i> , 2023, , 1-1.	5.4	0

#	ARTICLE	IF	CITATIONS
2696	CNTSeg: A multimodal deep-learning-based network for cranial nerves tract segmentation. Medical Image Analysis, 2023, 86, 102766.	7.0	3
2697	Moving from phenomenological to predictive modelling: Progress and pitfalls of modelling brain stimulation in-silico. NeuroImage, 2023, 272, 120042.	2.1	5
2698	Spatially regularized low-rank tensor approximation for accurate and fast tractography. NeuroImage, 2023, 271, 120004.	2.1	1
2699	Deep fiber clustering: Anatomically informed fiber clustering with self-supervised deep learning for fast and effective tractography parcellation. NeuroImage, 2023, 273, 120086.	2.1	6
2700	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg" display="inline" id="d1e1133" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle r \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle G \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle$ Transforming 3T to 7T dMRI using Trapezoidal Rule and Graph based Attention Modules. Medical Image Analysis, 2023, 87, 102806.	7.0	1
2701	Superficial white matter analysis: An efficient point-cloud-based deep learning framework with supervised contrastive learning for consistent tractography parcellation across populations and dMRI acquisitions. Medical Image Analysis, 2023, 85, 102759.	7.0	14
2702	Exploring hormone communication and perception of emotion. MOJ Applied Bionics and Biomechanics, 2021, 5, 8-17.	0.2	0
2703	Perspective Chapter: Functional Human Brain Connectome in Deep Brain Stimulation (DBS) for Parkinson's Disease (PD). , 0, .		0
2704	Genetic architecture of the white matter connectome of the human brain. Science Advances, 2023, 9, .	4.7	13
2705	Recent advances in using diffusion tensor imaging to study white matter alterations in Parkinson's disease: A mini review. Frontiers in Aging Neuroscience, 0, 14, .	1.7	2
2706	Effect of sex on the APOE4-aging interaction in the white matter microstructure of cognitively normal older adults using diffusion-tensor MRI with orthogonal-tensor decomposition (DT-DOME). Frontiers in Neuroscience, 0, 17, .	1.4	1
2707	Tensor- and high-resolution fiber tractography for the delineation of the optic radiation and corticospinal tract in the proximity of intracerebral lesions: a reproducibility and repeatability study. Acta Neurochirurgica, 2023, 165, 1041-1051.	0.9	0
2708	BOLD fMRI and DTI fiber tracking for preoperative mapping of eloquent cerebral regions in brain tumor patients: impact on surgical approach and outcome. Neurological Sciences, 2023, 44, 2903-2914.	0.9	1
2709	A 32-Channel Sleeve Antenna Receiver Array for Human Head MRI Applications at 10.5 T. IEEE Transactions on Medical Imaging, 2023, 42, 2643-2652.	5.4	2
2710	Structural alterations of the salience network in patients with insular glioma. Brain and Behavior, 0, .	1.0	1
2711	Diffusion phase-imaging in anisotropic media using non-linear gradients for diffusion encoding. PLoS ONE, 2023, 18, e0281332.	1.1	0
2713	Automated three-dimensional major white matter bundle segmentation using diffusion magnetic resonance imaging. Anatomical Science International, 0, .	0.5	3
2714	Label-Free Chemically and Molecularly Selective Magnetic Resonance Imaging. , 2023, 1, 121-139.		3

#	ARTICLE	IF	CITATIONS
2715	Exploring clinical outcomes in patients with idiopathic/inherited isolated generalized dystonia and stimulation of the subthalamic region. <i>Arquivos De Neuro-Psiquiatria</i> , 2023, 81, 263-270.	0.3	1
2716	A new open, high-resolution, multishell, diffusion-weighted imaging dataset of the living squirrel monkey. <i>Scientific Data</i> , 2023, 10, .	2.4	1
2717	Accurate corresponding fiber tract segmentation via FiberGeoMap learner with application to autism. <i>Cerebral Cortex</i> , 2023, 33, 8405-8420.	1.6	1
2718	Issues in Translating Imaging Technology and Presurgical Diffusion Tensor Imaging. , 2023, , 969-1002.		0
2720	Better Generalization of White Matter Tract Segmentation to Arbitrary Datasets with Scaled Residual Bootstrap. <i>Lecture Notes in Computer Science</i> , 2023, , 629-640.	1.0	0
2721	Modeling the Shape of the Brain Connectome via Deep Neural Networks. <i>Lecture Notes in Computer Science</i> , 2023, , 291-302.	1.0	0
2724	Deep Learning Methods for Identification of White Matter Fiber Tracts: Review of State-of-the-Art and Future Prospective. <i>Neuroinformatics</i> , 0, , .	1.5	3
2727	A Deep Approach for Volumetric Tractography Segmentation. <i>Lecture Notes in Computer Science</i> , 2023, , 581-592.	1.0	0
2732	Technology Initiatives in the Human Locomotor System. , 2023, , 199-260.		0
2734	Structural network construction using diffusion MRI. , 2023, , 25-44.		0
2735	Networks with lesions. , 2023, , 391-408.		0
2738	On Modelling Electrical Conductivity of the Cerebral White Matter. <i>Advances in Experimental Medicine and Biology</i> , 2023, , 81-89.	0.8	0
2739	Effects of Neuron Axons Degeneration in 2D Networks of Neuronal Oscillators. , 2023, , 391-407.		0
2747	atTRACTive: Semi-automatic White Matter Tract Segmentation Using Active Learning. <i>Lecture Notes in Computer Science</i> , 2023, , 237-246.	1.0	2
2748	TractCloud: Registration-Free Tractography Parcellation with Novel Local-Global Streamline Point Cloud Representation. <i>Lecture Notes in Computer Science</i> , 2023, , 409-419.	1.0	0
2762	Tensor Field Visualization. , 2024, , 1829-1837.		0
2770	Diffusion Phantom Study of Fiber Crossings at Varied Angles Reconstructed with ODF-Fingerprinting. <i>Lecture Notes in Computer Science</i> , 2023, , 23-34.	1.0	0
2771	A Deep Network for Explainable Prediction of Non-imaging Phenotypes Using Anatomical Multi-view Data. <i>Lecture Notes in Computer Science</i> , 2023, , 165-176.	1.0	0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------