

Marco Reisert

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

4,709
citations

172207

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118652

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112
all docs

112
docs citations

112
times ranked

5775
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical Effects of Chronic Ankle Instability on the Talar Cartilage Matrix: The Value of T1 ρ Relaxation Mapping Without and With Mechanical Loading. Journal of Magnetic Resonance Imaging, 2023, 57, 611-619.	1.9	2
2	Diverging prefrontal cortex fiber connection routes to the subthalamic nucleus and the mesencephalic ventral tegmentum investigated with long range (normative) and short range (ex-vivo) Tj ETQq0 0 Omg BT /Overclock 10 TF		
3	â€œWithin a minuteâ€•detection of focal cortical dysplasia. Neuroradiology, 2022, 64, 715-726.	1.1	6
4	Support Vector Machine-based Spontaneous Intracranial Hypotension Detection on Brain MRI. Clinical Neuroradiology, 2022, 32, 225-230.	1.0	4
5	Fully automated detection of focal cortical dysplasia: Comparison of MPRAGE and MP2RAGE sequences. Epilepsia, 2022, 63, 75-85.	2.6	7
6	Widespread white matter oedema in subacute COVID-19 patients with neurological symptoms. Brain, 2022, 145, 3203-3213.	3.7	25
7	Diffusion microstructure imaging in progressive supranuclear palsy: reduced axonal volumes in the superior cerebellar peduncles, dentato-rubro-thalamic tracts, ventromedial thalami, and frontomesial white matter. Cerebral Cortex, 2022, 32, 5628-5636.	1.6	6
8	Novel anti-cytoplasmic antibodies in cerebrospinal fluid and serum of patients with chronic severe mental disorders. World Journal of Biological Psychiatry, 2022, 23, 794-801.	1.3	3
9	Diffusion Microstructure Imaging to Analyze Perilesional T2 Signal Changes in Brain Metastases and Glioblastomas. Cancers, 2022, 14, 1155.	1.7	7
10	Autoimmune Obsessive-Compulsive Disorder with Novel Anti-Basal Ganglia Antibodies. Psychotherapy and Psychosomatics, 2022, 91, 214-216.	4.0	10
11	Reduced structural connectivity in the corpus callosum in patients with anorexia nervosa. European Eating Disorders Review, 2022, , .	2.3	2
12	A Neuroanatomy of Positive Affect Display â€œ Subcortical Fiber Pathways Relevant for Initiation and Modulation of Smiling and Laughing. Frontiers in Behavioral Neuroscience, 2022, 16, 817554.	1.0	2
13	Altered transcallosal fiber count and volume in high-functioning adults with autism spectrum disorder. Psychiatry Research - Neuroimaging, 2022, 322, 111464.	0.9	2
14	Diffusion tensor imaging in unclear intramedullary tumor-suspected lesions allows separating tumors from inflammation. Spinal Cord, 2022, 60, 655-663.	0.9	4
15	Automated segmentation of head CT scans for computer-assisted craniomaxillofacial surgery applying a hierarchical patch-based stack of convolutional neural networks. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 2093-2101.	1.7	6
16	Robust intra-individual estimation of structural connectivity by Principal Component Analysis. Neurolmage, 2021, 226, 117483.	2.1	1
17	Approximation to painâ€•signaling network in humans by means of migraine. Human Brain Mapping, 2021, 42, 766-779.	1.9	5
18	SVM-Based Normal Pressure Hydrocephalus Detection. Clinical Neuroradiology, 2021, 31, 1029-1035.	1.0	14

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19	Focal cervical spinal stenosis causes mechanical strain on the entire cervical spinal cord tissue â€” A prospective controlled, matched-pair analysis based on phase-contrast MRI. <i>NeuroImage: Clinical</i> , 2021, 30, 102580.	1.4	8
20	Mapping the living mouse brain neural architecture: strain-specific patterns of brain structural and functional connectivity. <i>Brain Structure and Function</i> , 2021, 226, 647-669.	1.2	5
21	SPECTRE â€” A novel dMRI visualization technique for the display of cerebral connectivity. <i>Human Brain Mapping</i> , 2021, 42, 2309-2321.	1.9	3
22	3D X-ray based visualization of directional deep brain stimulation lead orientation. <i>Journal of Neuroradiology</i> , 2021, , .	0.6	5
23	The ventral pathway of the human brain: A continuous association tract system. <i>NeuroImage</i> , 2021, 234, 117977.	2.1	32
24	Spinal Cord Motion in Degenerative Cervical Myelopathy: The Level of the Stenotic Segment and Gender Cause Altered Pathodynamics. <i>Journal of Clinical Medicine</i> , 2021, 10, 3788.	1.0	12
25	Hippocampus-Avoidance Whole-Brain Radiation Therapy Is Efficient in the Long-Term Preservation of Hippocampal Volume. <i>Frontiers in Oncology</i> , 2021, 11, 714709.	1.3	11
26	Contrast Bolus Interference in a Multimodal CT Stroke Protocol. <i>American Journal of Neuroradiology</i> , 2021, 42, 1807-1814.	1.2	2
27	Increased interstitial fluid in periventricular and deep white matter hyperintensities in patients with suspected idiopathic normal pressure hydrocephalus. <i>Scientific Reports</i> , 2021, 11, 19552.	1.6	12
28	DTI for brain targeting: Diffusion weighted imaging fiber tractographyâ€”Assisted deep brain stimulation. <i>International Review of Neurobiology</i> , 2021, 159, 47-67.	0.9	6
29	Atri-U: assisted image analysis in routine cardiovascular magnetic resonance volumetry of the left atrium. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 133.	1.6	6
30	Joint Imaging Platform for Federated Clinical Data Analytics. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 1027-1038.	1.0	39
31	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
32	Brain network remodelling reflects tau-related pathology prior to memory deficits in Thy-Tau22 mice. <i>Brain</i> , 2020, 143, 3748-3762.	3.7	15
33	Tractographic description of major subcortical projection pathways passing the anterior limb of the internal capsule. Corticopetal organization of networks relevant for psychiatric disorders. <i>NeuroImage: Clinical</i> , 2020, 25, 102165.	1.4	52
34	Thereâ€™s more to the picture than meets the eye. <i>Acta Neurochirurgica</i> , 2020, 162, 1869-1870.	0.9	0
35	Diffusion Tensor Imaging Reveals Whole-Brain Microstructural Changes in the P301L Mouse Model of Tauopathy. <i>Neurodegenerative Diseases</i> , 2020, 20, 173-184.	0.8	14
36	The dentato-rubro-thalamic tract as the potential common deep brain stimulation target for tremor of various origin: an observational case series. <i>Acta Neurochirurgica</i> , 2020, 162, 1053-1066.	0.9	73

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37	PATâ€”Probabilistic Axon Tracking for Densely Labeled Neurons in Large 3-D Micrographs. IEEE Transactions on Medical Imaging, 2019, 38, 69-78.	5.4	16
38	Frontal white matter architecture predicts efficacy of deep brain stimulation in major depression. Translational Psychiatry, 2019, 9, 197.	2.4	32
39	Assessment of spinal cord motion as a new diagnostic MRI-parameter in cervical spinal canal stenosis: study protocol on a prospective longitudinal trial. Journal of Orthopaedic Surgery and Research, 2019, 14, 321.	0.9	12
40	Intra-axonal diffusivity in brain white matter. NeuroImage, 2019, 189, 543-550.	2.1	71
41	Machine learningâ€”aided personalized DTI tractographic planning for deep brain stimulation of the superolateral medial forebrain bundle using HAMLET. Acta Neurochirurgica, 2019, 161, 1559-1569.	0.9	24
42	A unique analytical solution of the white matter standard model using linear and planar encodings. Magnetic Resonance in Medicine, 2019, 81, 3819-3825.	1.9	35
43	Is microdiffusion imaging able to improve the detection of cervical myelopathy? Study protocol of a prospective observational trial (MIDICAM-Trial). BMJ Open, 2019, 9, e029153.	0.8	2
44	Lead-DBS v2: Towards a comprehensive pipeline for deep brain stimulation imaging. NeuroImage, 2019, 184, 293-316.	2.1	527
45	Discrimination of epileptogenic lesions and perilesional white matter using diffusion tensor magnetic resonance imaging. Neuroradiology Journal, 2019, 32, 10-16.	0.6	3
46	Probing the reproducibility of quantitative estimates of structural connectivity derived from global tractography. NeuroImage, 2018, 175, 215-229.	2.1	35
47	Arterial input function in a dedicated slice for cerebral perfusion measurements in humans. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 439-448.	1.1	4
48	Model-free global tractography. NeuroImage, 2018, 174, 576-586.	2.1	7
49	The anatomy of the human medial forebrain bundle: Ventral tegmental area connections to reward-associated subcortical and frontal lobe regions. NeuroImage: Clinical, 2018, 18, 770-783.	1.4	93
50	The absence of restricted water pool in brain white matter. NeuroImage, 2018, 182, 398-406.	2.1	59
51	Connectivity of the Superficial Muscles of the Human Perineum: A Diffusion Tensor Imaging-Based Global Tractography Study. Scientific Reports, 2018, 8, 17867.	1.6	16
52	Voxel-wise deviations from healthy aging for the detection of region-specific atrophy. NeuroImage: Clinical, 2018, 20, 851-860.	1.4	18
53	Direct estimation of ¹⁷ O MR images (DIESIS) for quantification of oxygen metabolism in the human brain with partial volume correction. Magnetic Resonance in Medicine, 2018, 80, 2717-2725.	1.9	7
54	Effects of mesoscopic susceptibility and transverse relaxation on diffusion NMR. Journal of Magnetic Resonance, 2018, 293, 134-144.	1.2	24

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55	Tractography-assisted deep brain stimulation of the superolateral branch of the medial forebrain bundle (slMFB DBS) in major depression. <i>NeuroImage: Clinical</i> , 2018, 20, 580-593.	1.4	69
56	Data on the test-retest reproducibility of streamline counts as a measure of structural connectivity. <i>Data in Brief</i> , 2018, 19, 1361-1381.	0.5	3
57	Spherical Tensor Algebra: A Toolkit for 3D Image Processing. <i>Journal of Mathematical Imaging and Vision</i> , 2017, 58, 349-381.	0.8	9
58	3D CMRO2 mapping in human brain with direct 17O MRI: Comparison of conventional and proton-constrained reconstructions. <i>NeuroImage</i> , 2017, 155, 612-624.	2.1	17
59	Distinct white matter alterations following severe stroke. <i>Neurology</i> , 2017, 88, 1546-1555.	1.5	40
60	Initial investigation of glucose metabolism in mouse brain using enriched ¹⁷ O-glucose and dynamic ¹⁷ O-MRS. <i>NMR in Biomedicine</i> , 2017, 30, e3724.	1.6	7
61	Automated Infarct Core Volumetry Within the Hypoperfused Tissue. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 515-520.	0.5	11
62	Disentangling micro from mesostructure by diffusion MRI: A Bayesian approach. <i>NeuroImage</i> , 2017, 147, 964-975.	2.1	138
63	The connectomics of brain demyelination: Functional and structural patterns in the cuprizone mouse model. <i>NeuroImage</i> , 2017, 146, 1-18.	2.1	83
64	Gibbsâ€œringing artifact removal based on local subvoxelâ€œshifts. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1574-1581.	1.9	918
65	Molecular Imaging of Activated Platelets Allows the Detection of Pulmonary Embolism with Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2016, 6, 25044.	1.6	18
66	Deletion of the mu opioid receptor gene in mice reshapes the rewardâ€œaversion connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11603-11608.	3.3	64
67	Revealing signal from noisy ¹⁹ F MR images by chemical shift artifact correction. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2225-2233.	1.9	11
68	Whole-Brain In-vivo Measurements of the Axonal G-Ratio in a Group of 37 Healthy Volunteers. <i>Frontiers in Neuroscience</i> , 2015, 9, 441.	1.4	97
69	Efficient Monte Carlo Image Analysis for the Location of Vascular Entity. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 628-643.	5.4	9
70	Predicting Planning Performance from Structural Connectivity Between Left and Right Mid-Dorsolateral Prefrontal Cortex: Moderating Effects of Age During Postadolescence and Midadulthood. <i>Cerebral Cortex</i> , 2015, 25, 869-883.	1.6	20
71	Global tractography of multi-shell diffusion-weighted imaging data using a multi-tissue model. <i>NeuroImage</i> , 2015, 123, 89-101.	2.1	128
72	Blood Tracer Kinetics in the Arterial Tree. <i>PLoS ONE</i> , 2014, 9, e109230.	1.1	7

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73	MR image reconstruction from generalized projections. Magnetic Resonance in Medicine, 2014, 72, 546-557.	1.9	14
74	Quantitative cerebral blood flow with bolus tracking perfusion MRI: Measurements in porcine model and comparison with PET. Magnetic Resonance in Medicine, 2014, 72, 1723-1734.	1.9	5
75	Attentionâ€network specific alterations of structural connectivity in the undamaged white matter in acute neglect. Human Brain Mapping, 2014, 35, 4678-4692.	1.9	40
76	Quantification and correction of respiration induced dynamic field map changes in fMRI using 3D single shot techniques. Magnetic Resonance in Medicine, 2014, 71, 1093-1102.	1.9	38
77	The structuralâ€functional connectome and the default mode network of the human brain. NeuroImage, 2014, 102, 142-151.	2.1	283
78	MesoFT: Unifying Diffusion Modelling and Fiber Tracking. Lecture Notes in Computer Science, 2014, 17, 201-208.	1.0	30
79	Atlas-Guided Global Tractography: Imposing a Prior on the Local Track Orientation. Mathematics and Visualization, 2014, , 115-123.	0.4	3
80	Efficient Metropolis-Hasting Image Analysis for the Location of Vascular Entity. Lecture Notes in Computer Science, 2014, , 421-431.	1.0	0
81	Arterial input function measurements for bolus tracking perfusion imaging in the brain. Magnetic Resonance in Medicine, 2013, 69, 771-780.	1.9	21
82	Single shot whole brain imaging using spherical stack of spirals trajectories. NeuroImage, 2013, 73, 59-70.	2.1	90
83	Fiber density estimation from single q-shell diffusion imaging by tensor divergence. NeuroImage, 2013, 77, 166-176.	2.1	15
84	Mapping remodeling of thalamocortical projections in the living <i>reeler</i> mouse brain by diffusion tractography. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1797-806.	3.3	51
85	Rotation Covariant Image Processing for Biomedical Applications. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-19.	0.7	1
86	Fiber Continuity Based Spherical Deconvolution in Spherical Harmonic Domain. Lecture Notes in Computer Science, 2013, 16, 493-500.	1.0	5
87	MITK global tractography. Proceedings of SPIE, 2012, , .	0.8	20
88	About the Geometry of Asymmetric Fiber Orientation Distributions. IEEE Transactions on Medical Imaging, 2012, 31, 1240-1249.	5.4	30
89	Fast Rotation Invariant 3D Feature Computation Utilizing Efficient Local Neighborhood Operators. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1563-1575.	9.7	32
90	Single shot concentric shells trajectories for ultra fast fMRI. Magnetic Resonance in Medicine, 2012, 68, 484-494.	1.9	81

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91	Fiber Density Estimation by Tensor Divergence. Lecture Notes in Computer Science, 2012, 15, 297-304.	1.0	0
92	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. NeuroImage, 2011, 56, 220-234.	2.1	376
93	Global fiber reconstruction becomes practical. NeuroImage, 2011, 54, 955-962.	2.1	277
94	Fiber Continuity: An Anisotropic Prior for ODF Estimation. IEEE Transactions on Medical Imaging, 2011, 30, 1274-1283.	5.4	50
95	Three-dimensional MR-encephalography: Fast volumetric brain imaging using rosette trajectories. Magnetic Resonance in Medicine, 2011, 65, 1260-1268.	1.9	59
96	Spherical Bessel Filter for 3D object detection. , 2011, , .		3
97	Alpha helix prediction based on Metropolis-Hastings sampling. , 2011, , .		0
98	SHOG - Spherical HOG Descriptors for Rotation Invariant 3D Object Detection. Lecture Notes in Computer Science, 2011, , 142-151.	1.0	12
99	Steerable Deconvolution Feature Detection as an Inverse Problem. Lecture Notes in Computer Science, 2011, , 326-335.	1.0	1
100	Harmonic Filters for 3D Multichannel Data: Rotation Invariant Detection of Mitoses in Colorectal Cancer. IEEE Transactions on Medical Imaging, 2010, 29, 1485-1495.	5.4	15
101	Spherical Tensor Calculus for Local Adaptive Filtering. Advances in Pattern Recognition, 2009, , 153-178.	0.8	9
102	Harmonic Filters for Generic Feature Detection in 3D. Lecture Notes in Computer Science, 2009, , 131-140.	1.0	11
103	Cross-Correlation and Rotation Estimation of Local 3D Vector Field Patches. Lecture Notes in Computer Science, 2009, , 287-296.	1.0	1
104	Equivariant Holomorphic Filters for Contour Denoising and Rapid Object Detection. IEEE Transactions on Image Processing, 2008, 17, 190-203.	6.0	17
105	Complex Derivative Filters. IEEE Transactions on Image Processing, 2008, 17, 2265-2274.	6.0	18
106	Invariant features for searching in protein fold databases. International Journal of Computer Mathematics, 2007, 84, 635-651.	1.0	8
107	Second order 3D shape features: An exhaustive study. Computers and Graphics, 2006, 30, 197-206.	1.4	21