# Bennett Allan Landman

List of Publications by Year
in descending order



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|---|---|---|---|
| 419 papers | 12,182 citations | 50276 46 h-index | 42399 92 g-index |
| 451 all docs | 451 docs citations | 451 times ranked | 14417 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The future of digital health with federated learning. Npj Digital Medicine, 2020, 3, 119. | 10.9 | 887 |
| 2 | The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior, 2014, 8, 153-182. | 2.1 | 696 |
| 3 | Water saturation shift referencing (WASSR) for chemical exchange saturation transfer (CEST) experiments. Magnetic Resonance in Medicine, 2009, 61, 1441-1450. | 3.0 | 555 |
| 4 | Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: A pilot project of the ENIGMAâ€“DTI working group. NeuroImage, 2013, 81, 455-469. | 4.2 | 354 |
| 5 | Effects of signalâ€toâ€noise ratio on the accuracy and reproducibility of diffusion tensor imagingâ€“derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. Journal of Magnetic Resonance Imaging, 2007, 26, 756-767. | 3.4 | 336 |
| 6 | Multi-parametric neuroimaging reproducibility: A 3-T resource study. NeuroImage, 2011, 54, 2854-2866. | 4.2 | 318 |
| 7 | Effects of diffusion weighting schemes on the reproducibility of DTI-derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. NeuroImage, 2007, 36, 1123-1138. | 4.2 | 266 |
| 8 | The Medical Segmentation Decathlon. Nature Communications, 2022, 13, . | 12.8 | 252 |
| 9 | Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. NeuroImage, 2015, 111, 300-311. | 4.2 | 227 |
| 10 | Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11. | 4.2 | 200 |
| 11 | Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217. | 12.8 | 198 |
| 12 | Non-local statistical label fusion for multi-atlas segmentation. Medical Image Analysis, 2013, 17, 194-208. | 11.6 | 191 |
| 13 | 3D whole brain segmentation using spatially localized atlas network tiles. NeuroImage, 2019, 194, 105-119. | 4.2 | 183 |
| 14 | SynSeg-Net: Synthetic Segmentation Without Target Modality Ground Truth. IEEE Transactions on Medical Imaging, 2019, 38, 1016-1025. | 8.9 | 163 |
| 15 | Histological validation of diffusion MRI fiber orientation distributions and dispersion. NeuroImage, 2018, 165, 200-221. | 4.2 | 156 |
| 16 | Faster Mean-shift: GPU-accelerated clustering for cosine embedding-based cell segmentation and tracking. Medical Image Analysis, 2021, 71, 102048. | 11.6 | 150 |
| 17 | Prefrontal-Thalamic Anatomical Connectivity and Executive Cognitive Function in Schizophrenia. Biological Psychiatry, 2018, 83, 509-517. | 1.3 | 145 |
| 18 | Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and megaanalytical approaches for data pooling. NeuroImage, 2014, 95, 136-150. | 4.2 | 127 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Java Image Science Toolkit (JIST) for Rapid Prototyping and Publishing of Neuroimaging Software. Neuroinformatics, 2010, 8, 5-17. | 2.8 | 121 |
| 20 | Resolution of crossing fibers with constrained compressed sensing using diffusion tensor MRI. NeuroImage, 2012, 59, 2175-2186. | 4.2 | 115 |
| 21 | Evaluation of Six Registration Methods for the Human Abdomen on Clinically Acquired CT. IEEE Transactions on Biomedical Engineering, 2016, 63, 1563-1572. | 4.2 | 111 |
| 22 | Assessing the Accuracy of a Deep Learning Method to Risk Stratify Indeterminate Pulmonary Nodules. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 241-249. | 5.6 | 109 |
| 23 | Confirmation of a gyral bias in diffusion <scp>MRI</scp> fiber tractography. Human Brain Mapping, 2018, 39, 1449-1466. | 3.6 | 105 |
| 24 | Challenges in diffusion MRI tractography â€“ Lessons learned from international benchmark competitions. Magnetic Resonance Imaging, 2019, 57, 194-209. | 1.8 | 99 |
| 25 | Spinal cord grey matter segmentation challenge. NeuroImage, 2017, 152, 312-329. | 4.2 | 97 |
| 26 | Formulating Spatially Varying Performance in the Statistical Fusion Framework. IEEE Transactions on Medical Imaging, 2012, 31, 1326-1336. | 8.9 | 95 |
| 27 | Deep learning for brain tumor classification. Proceedings of SPIE, 2017, , . | 0.8 | 95 |
| 28 | Consistent cortical reconstruction and multi-atlas brain segmentation. NeuroImage, 2016, 138, 197-210. | 4.2 | 94 |
| 29 | Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502. | 4.2 | 94 |
| 30 | Brain atrophy in long-term abstinent alcoholics who demonstrate impairment on a simulated gambling task. NeuroImage, 2006, 32, 1465-1471. | 4.2 | 92 |
| 31 | Development of chemical exchange saturation transfer at 7T. Magnetic Resonance in Medicine, 2011, 66, 831-838. | 3.0 | 88 |
| 32 | Synthesized b0 for diffusion distortion correction (Synb0-DisCo). Magnetic Resonance Imaging, 2019, 64, 62-70. | 1.8 | 87 |
| 33 | Comparison of 3D orientation distribution functions measured with confocal microscopy and diffusion MRI. NeuroImage, 2016, 129, 185-197. | 4.2 | 85 |
| 34 | Efficient multi-atlas abdominal segmentation on clinically acquired CT with SIMPLE context learning. Medical Image Analysis, 2015, 24, 18-27. | 11.6 | 84 |
| 35 | Comparing fully automated state-of-the-art cerebellum parcellation from magnetic resonance images. NeuroImage, 2018, 183, 150-172. | 4.2 | 80 |
| 36 | Cortical asymmetry in Parkinson's disease: early susceptibility of the left hemisphere. Brain and Behavior, 2016, 6, e00573. | 2.2 | 79 |

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| 37 | Adversarial synthesis learning enables segmentation without target modality ground truth. , 2018, , . | | 78 |
| 38 | Robust Statistical Label Fusion Through Consensus Level, Labeler Accuracy, and Truth Estimation (COLLATE). IEEE Transactions on Medical Imaging, 2011, 30, 1779-1794. | 8.9 | 73 |
| 39 | Treated and treatment-naive alcoholics come from different populations. Alcohol, 2005, 35, 19-26. | 1.7 | 64 |
| 40 | Magnetic resonance imaging connectivity for the prediction of seizure outcome in temporal lobe epilepsy. Epilepsia, 2017, 58, 1251-1260. | 5.1 | 62 |
| 41 | Can increased spatial resolution solve the crossing fiber problem for diffusion MRI?. NMR in Biomedicine, 2017, 30, e3787. | 2.8 | 61 |
| 42 | Simultaneous Analysis and Quality Assurance for Diffusion Tensor Imaging. PLoS ONE, 2013, 8, e61737. | 2.5 | 60 |
| 43 | Distortion correction of diffusion weighted MRIÂwithout reverse phase-encoding scans or field-maps. PLoS ONE, 2020, 15, e0236418. | 2.5 | 60 |
| 44 | Reproducibility of tractâ€specific magnetization transfer and diffusion tensor imaging in the cervical spinal cord at 3 tesla. NMR in Biomedicine, 2010, 23, 207-217. | 2.8 | 59 |
| 45 | BIAS: Transparent reporting of biomedical image analysis challenges. Medical Image Analysis, 2020, 66, 101796. | 11.6 | 59 |
| 46 | A fiber coherence index for quality control of B-table orientation in diffusion MRI scans. Magnetic Resonance Imaging, 2019, 58, 82-89. | 1.8 | 58 |
| 47 | Brain connections derived from diffusion MRI tractography can be highly anatomically accurateâ€”if we know where white matter pathways start, where they end, and where they do not go. Brain Structure and Function, 2020, 225, 2387-2402. | 2.3 | 58 |
| 48 | Statistical parametric mapping of brain morphology: Sensitivity is dramatically increased by using brain-extracted images as inputs. NeuroImage, 2006, 30, 1187-1195. | 4.2 | 56 |
| 49 | Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. NeuroImage, 2020, 221, 117128. | 4.2 | 54 |
| 50 | Network localization of clinical, cognitive, and neuropsychiatric symptoms in Alzheimerâ€™s disease. Brain, 2020, 143, 1249-1260. | 7.6 | 53 |
| 51 | Multi-Site Infant Brain Segmentation Algorithms: The iSeg-2019 Challenge. IEEE Transactions on Medical Imaging, 2021, 40, 1363-1376. | 8.9 | 53 |
| 52 | Learning implicit brain MRI manifolds with deep learning. , 2018, 10574, . | | 51 |
| 53 | MRI Shows a Region-Specific Pattern of Atrophy in Spinocerebellar Ataxia Type 2. Cerebellum, 2012, 11, 272-279. | 2.5 | 49 |
| 54 | Groupwise multi-atlas segmentation of the spinal cordâ€™s internal structure. Medical Image Analysis, 2014, 18, 460-471. | 11.6 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Region of interest correction factors improve reliability of diffusion imaging measures within and across scanners and field strengths. NeuroImage, 2015, 119, 406-416. | 4.2 | 48 |
| 56 | Relating structural and functional brainstem connectivity to disease measures in epilepsy. Neurology, 2018, 91, e67-e77. | 1.1 | 48 |
| 57 | Vascular burden and APOE Îµ4 are associated with white matter microstructural decline in cognitively normal older adults. NeuroImage, 2019, 188, 572-583. | 4.2 | 48 |
| 58 | Deterministic inverse design of Tamm plasmon thermal emitters with multi-resonant control. Nature Materials, 2021, 20, 1663-1669. | 27.5 | 46 |
| 59 | qâ€space and conventional diffusion imaging of axon and myelin damage in the rat spinal cord after axotomy. Magnetic Resonance in Medicine, 2010, 63, 1323-1335. | 3.0 | 43 |
| 60 | PreQual: An automated pipeline for integrated preprocessing and quality assurance of diffusion weighted MRI images. Magnetic Resonance in Medicine, 2021, 86, 456-470. | 3.0 | 43 |
| 61 | Diffusion tensor imaging at low SNR: nonmonotonic behaviors of tensor contrasts. Magnetic Resonance Imaging, 2008, 26, 790-800. | 1.8 | 40 |
| 62 | Biological parametric mapping with robust and non-parametric statistics. NeuroImage, 2011, 57, 423-430. | 4.2 | 40 |
| 63 | Regional Differences in Diffusion Tensor Imaging Measurements: Assessment of Intrarater and Interrater Variability. American Journal of Neuroradiology, 2008, 29, 1124-1127. | 2.4 | 39 |
| 64 | Baseline Cardiovascular Risk Predicts Subsequent Changes in Resting Brain Function. Stroke, 2012, 43, 1542-1547. | 2.0 | 39 |
| 65 | Robust Statistical Fusion of Image Labels. IEEE Transactions on Medical Imaging, 2012, 31, 512-522. | 8.9 | 38 |
| 66 | Vanderbilt University Institute of Imaging Science Center for Computational Imaging XNAT: A multimodal data archive and processing environment. NeuroImage, 2016, 124, 1097-1101. | 4.2 | 38 |
| 67 | Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. Journal of Magnetic Resonance Imaging, 2020, 51, 234-249. | 3.4 | 38 |
| 68 | Accelerated brain aging predicts impaired cognitive performance and greater disability in geriatric but not midlife adult depression. Translational Psychiatry, 2020, 10, 317. | 4.8 | 37 |
| 69 | Hierarchical performance estimation in the statistical label fusion framework. Medical Image Analysis, 2014, 18, 1070-1081. | 11.6 | 36 |
| 70 | Anatomical accuracy of standard-practice tractography algorithms in the motor system - A histological validation in the squirrel monkey brain. Magnetic Resonance Imaging, 2019, 55, 7-25. | 1.8 | 36 |
| 71 | Integrated Biomarkers for the Management of Indeterminate Pulmonary Nodules. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1306-1316. | 5.6 | 36 |
| 72 | Splenomegaly Segmentation on Multi-Modal MRI Using Deep Convolutional Networks. IEEE Transactions on Medical Imaging, 2019, 38, 1185-1196. | 8.9 | 35 |

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| 73 | Fiber tractography bundle segmentation depends on scanner effects, vendor effects, acquisition resolution, diffusion sampling scheme, diffusion sensitization, and bundle segmentation workflow. NeuroImage, 2021, 242, 118451. | 4.2 | 35 |
| 74 | Fully convolutional neural networks improve abdominal organ segmentation. , 2018, 10574, . | | 34 |
| 75 | Thalamocortical Anatomical Connectivity in Schizophrenia and Psychotic Bipolar Disorder. Schizophrenia Bulletin, 2020, 46, 1062-1071. | 4.3 | 34 |
| 76 | Characterizing Spatially Varying Performance to Improve Multi-atlas Multi-label Segmentation. Lecture Notes in Computer Science, 2011, 22, 85-96. | 1.3 | 34 |
| 77 | Prevalence of white matter pathways coming into a single white matter voxel orientation: The bottleneck issue in tractography. Human Brain Mapping, 2022, 43, 1196-1213. | 3.6 | 34 |
| 78 | Prenatal and postnatal maternal anxiety and amygdala structure and function in young children. Scientific Reports, 2021, 11, 4019. | 3.3 | 33 |
| 79 | Estimation and application of spatially variable noise fields in diffusion tensor imaging. Magnetic Resonance Imaging, 2009, 27, 741-751. | 1.8 | 32 |
| 80 | Functional Networks in Temporal-Lobe Epilepsy: A Voxel-Wise Study of Resting-State Functional Connectivity and Gray-Matter Concentration. Brain Connectivity, 2013, 3, 22-30. | 1.7 | 32 |
| 81 | Approaching expert results using a hierarchical cerebellum parcellation protocol for multiple inexpert human raters. NeuroImage, 2013, 64, 616-629. | 4.2 | 32 |
| 82 | Multi-atlas learner fusion: An efficient segmentation approach for large-scale data. Medical Image Analysis, 2015, 26, 82-91. | 11.6 | 32 |
| 83 | Simultaneous total intracranial volume and posterior fossa volume estimation using multiâ€atlas label fusion. Human Brain Mapping, 2017, 38, 599-616. | 3.6 | 32 |
| 84 | Anatomical context improves deep learning on the brain age estimation task. Magnetic Resonance Imaging, 2019, 62, 70-77. | 1.8 | 32 |
| 85 | White matter differences between essential tremor and Parkinson disease. Neurology, 2019, 92, e30-e39. | 1.1 | 32 |
| 86 | Robust estimation of spatially variable noise fields. Magnetic Resonance in Medicine, 2009, 62, 500-509. | 3.0 | 30 |
| 87 | Robust optic nerve segmentation on clinically acquired computed tomography. Journal of Medical Imaging, 2014, 1, 034006. | 1.5 | 30 |
| 88 | Intrinsic Functional Network Connectivity Is Associated With Clinical Symptoms and Cognition in Late-Life Depression. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 160-170. | 1.5 | 30 |
| 89 | Non-local STAPLE: An Intensity-Driven Multi-atlas Rater Model. Lecture Notes in Computer Science, 2012, 15, 426-434. | 1.3 | 30 |
| 90 | Complex geometric models of diffusion and relaxation in healthy and damaged white matter. NMR in Biomedicine, 2010, 23, 152-162. | 2.8 | 29 |

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| 91 | Splenomegaly segmentation using global convolutional kernels and conditional generative adversarial networks. , 2018, 10574, . | | 29 |
| 92 | Anatomical context protects deep learning from adversarial perturbations in medical imaging. Neurocomputing, 2020, 379, 370-378. | 5.9 | 29 |
| 93 | Fully automatic liver attenuation estimation combing CNN segmentation and morphological operations. Medical Physics, 2019, 46, 3508-3519. | 3.0 | 28 |
| 94 | Distributed deep learning across multisite datasets for generalized CT hemorrhage segmentation. Medical Physics, 2020, 47, 89-98. | 3.0 | 28 |
| 95 | Diminishing Uncertainty Within the Training Pool: Active Learning for Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 2534-2547. | 8.9 | 28 |
| 96 | Distanced LSTM: Time-Distanced Gates in Long Short-Term Memory Models for Lung Cancer Detection. Lecture Notes in Computer Science, 2019, , 310-318. | 1.3 | 28 |
| 97 | Diffusion Tensor Estimation by Maximizing Rician Likelihood. , 2007, , 1-8. | | 27 |
| 98 | Disruption of Neural Homeostasis as a Model of Relapse and Recurrence in Late-Life Depression. American Journal of Geriatric Psychiatry, 2019, 27, 1316-1330. | 1.2 | 27 |
| 99 | Deep learning reveals untapped information for local white-matter fiber reconstruction in diffusion-weighted MRI. Magnetic Resonance Imaging, 2019, 62, 220-227. | 1.8 | 27 |
| 100 | Hierarchical spherical deformation for cortical surface registration. Medical Image Analysis, 2019, 57, 72-88. | 11.6 | 27 |
| 101 | High-resolution 3D abdominal segmentation with random patch network fusion. Medical Image Analysis, 2021, 69, 101894. | 11.6 | 26 |
| 102 | Multisurgeon, Multisite Validation of a Trajectory Planning Algorithm for Deep Brain Stimulation Procedures. IEEE Transactions on Biomedical Engineering, 2014, 61, 2479-2487. | 4.2 | 25 |
| 103 | Toward content-based image retrieval with deep convolutional neural networks. Proceedings of SPIE, 2015, 9417, . | 0.8 | 25 |
| 104 | Methods and open-source toolkit for analyzing and visualizing challenge results. Scientific Reports, 2021, 11, 2369. | 3.3 | 25 |
| 105 | Aging and white matter microstructure and macrostructure: a longitudinal multi-site diffusion MRI study of 1218 participants. Brain Structure and Function, 2022, 227, 2111-2125. | 2.3 | 25 |
| 106 | Magnetic Resonance Connectome Automated Pipeline: An Overview. IEEE Pulse, 2012, 3, 42-48. | 0.3 | 24 |
| 107 | Less is More: Simultaneous View Classification and Landmark Detection for Abdominal Ultrasound Images. Lecture Notes in Computer Science, 2018, , 711-719. | 1.3 | 24 |
| 108 | Structural covariance across the lifespan: Brain development and aging through the lens of interâ€network relationships. Human Brain Mapping, 2019, 40, 125-136. | 3.6 | 24 |

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| 109 | The VALiDATe29 MRI Based Multi-Channel Atlas of the Squirrel Monkey Brain. Neuroinformatics, 2017, 15, 321-331. | 2.8 | 23 |
| 110 | Towards Portable Large-Scale Image Processing with High-Performance Computing. Journal of Digital Imaging, 2018, 31, 304-314. | 2.9 | 23 |
| 111 | CircleNet: Anchor-Free Glomerulus Detection with Circle Representation. Lecture Notes in Computer Science, 2020, 2020, 35-44. | 1.3 | 23 |
| 112 | Free-water metrics in medial temporal lobe white matter tract projections relate to longitudinal cognitive decline. Neurobiology of Aging, 2020, 94, 15-23. | 3.1 | 23 |
| 113 | An atlas of white matter anatomy, its variability, and reproducibility based on constrained spherical deconvolution of diffusion MRI. NeuroImage, 2022, 254, 119029. | 4.2 | 23 |
| 114 | Controlling for premorbid brain size in imaging studies: T1-derived cranium scaling factor vs. T2-derived intracranial vault volume. Psychiatry Research - Neuroimaging, 2004, 131, 169-176. | 1.8 | 22 |
| 115 | Reproducibility and variation of diffusion measures in the squirrel monkey brain, in vivo and ex vivo. Magnetic Resonance Imaging, 2017, 35, 29-38. | 1.8 | 22 |
| 116 | Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. IEEE Transactions on Biomedical Engineering, 2018, 65, 336-343. | 4.2 | 22 |
| 117 | Glutamate-sensitive imaging and evaluation of cognitive impairment in multiple sclerosis. Multiple Sclerosis Journal, 2019, 25, 1580-1592. | 3.0 | 22 |
| 118 | The effect of age and microstructural white matter integrity on lap time variation and fast-paced walking speed. Brain Imaging and Behavior, 2016, 10, 697-706. | 2.1 | 21 |
| 119 | Functional tractography of white matter by high angular resolution functionalâ€correlation imaging (HARFI). Magnetic Resonance in Medicine, 2019, 81, 2011-2024. | 3.0 | 21 |
| 120 | Time-distanced gates in long short-term memory networks. Medical Image Analysis, 2020, 65, 101785. | 11.6 | 21 |
| 121 | Resolution of crossing fibers with constrained compressed sensing using traditional diffusion tensor MRI. , 2010, 7623, 76231H. | | 20 |
| 122 | System for Integrated Neuroimaging Analysis and Processing of Structure. Neuroinformatics, 2013, 11, 91-103. | 2.8 | 20 |
| 123 | TRACE: A Topological Graph Representation for Automatic Sulcal Curve Extraction. IEEE Transactions on Medical Imaging, 2018, 37, 1653-1663. | 8.9 | 20 |
| 124 | Quantitative Spatial Analysis of Metabolic Heterogeneity Across in vivo and in vitro Tumor Models. Frontiers in Oncology, 2019, 9, 1144. | 2.8 | 20 |
| 125 | Treated and treatment-naive alcoholics come from different populations. Alcohol, 2005, 36, 19-26. | 1.7 | 20 |
| 126 | Circle Representation for Medical Object Detection. IEEE Transactions on Medical Imaging, 2022, 41, 746-754. | 8.9 | 20 |

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| 127 | Immersive virtual reality for visualization of abdominal CT. Proceedings of SPIE, 2013, 8673, . | 0.8 | 19 |
| 128 | Labeling lateral prefrontal sulci using spherical data augmentation and context-aware training. NeuroImage, 2021, 229, 117758. | 4.2 | 19 |
| 129 | Tongue muscle fiber tracking during rest and tongue protrusion with oral appliances: A preliminary study with diffusion tensor imaging. Acoustical Science and Technology, 2008, 29, 291-294. | 0.5 | 18 |
| 130 | Statistical label fusion with hierarchical performance models. , 2014, 9034, 90341E. | | 18 |
| 131 | Cortical Implications of Advancing Age and Disease Duration in Parkinsonâ€™s Disease Patients with Postural Instability and Gait Dysfunction. Journal of Parkinson's Disease, 2016, 6, 441-451. | 2.8 | 18 |
| 132 | Combining multi-atlas segmentation with brain surface estimation. Proceedings of SPIE, 2016, 9784, . | 0.8 | 18 |
| 133 | Structural Correlates of the Sensorimotor Cerebellum in Parkinson's Disease and Essential Tremor. Movement Disorders, 2020, 35, 1181-1188. | 3.9 | 18 |
| 134 | Diffusion MRI microstructural models in the cervical spinal cord â€“ Application, normative values, and correlations with histological analysis. NeuroImage, 2019, 201, 116026. | 4.2 | 17 |
| 135 | Divergent network properties that predict early surgical failure versus late recurrence in temporal lobe epilepsy. Journal of Neurosurgery, 2020, 132, 1324-1333. | 1.6 | 17 |
| 136 | Cortical Surface Parcellation Using Spherical Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, 11766, 501-509. | 1.3 | 17 |
| 137 | Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. NeuroImage, 2022, 257, 119327. | 4.2 | 17 |
| 138 | Orthogonal diffusion-weighted MRI measures distinguish region-specific degeneration in cerebellar ataxia subtypes. Journal of Neurology, 2009, 256, 1939-1942. | 3.6 | 16 |
| 139 | Peripheral sphingolipids are associated with variation in white matter microstructure in older adults. Neurobiology of Aging, 2016, 43, 156-163. | 3.1 | 16 |
| 140 | Effects of b-value and number of gradient directions on diffusion MRI measures obtained with Q-ball imaging. Proceedings of SPIE, 2017, 10133, . | 0.8 | 16 |
| 141 | Empirical reproducibility, sensitivity, and optimization of acquisition protocol, for Neurite Orientation Dispersion and Density Imaging using AMICO. Magnetic Resonance Imaging, 2018, 50, 96-109. | 1.8 | 16 |
| 142 | Histologically derived fiber response functions for diffusion MRI vary across white matter fibersâ€”An ex vivo validation study in the squirrel monkey brain. NMR in Biomedicine, 2019, 32, e4090. | 2.8 | 16 |
| 143 | MASiVar: Multisite, multiscanner, and multisubject acquisitions for studying variability in diffusion weighted MRI. Magnetic Resonance in Medicine, 2021, 86, 3304-3320. | 3.0 | 16 |
| 144 | Spatially Localized Atlas Network Tiles Enables 3D Whole Brain Segmentation from Limited Data. Lecture Notes in Computer Science, 2018, , 698-705. | 1.3 | 16 |

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| 145 | Lung cancer detection using co-learning from chest CT images and clinical demographics. , 2019, 10949, . | | 16 |
| 146 | Accelerated decline in white matter microstructure in subsequently impaired older adults and its relationship with cognitive decline. Brain Communications, 2022, 4, fcac051. | 3.3 | 16 |
| 147 | The Pathophysiology of ???Brain Shrinkage??? in Alcoholics ??? Structural and Molecular Changes and Clinical Implications. Alcoholism: Clinical and Experimental Research, 2005, 29, 1106-1115. | 2.4 | 15 |
| 148 | Assessment of bias in experimentally measured diffusion tensor imaging parameters using SIMEX. Magnetic Resonance in Medicine, 2013, 69, 891-902. | 3.0 | 15 |
| 149 | Integration of XNAT/PACS, DICOM, and research software for automated multi-modal image analysis. , 2013, 8674, . | | 15 |
| 150 | Brain structure segmentation in the presence of multiple sclerosis lesions. NeuroImage: Clinical, 2019, 22, 101709. | 2.7 | 15 |
| 151 | Electronic Medical Record Context Signatures Improve Diagnostic Classification Using Medical Image Computing. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2052-2062. | 6.3 | 15 |
| 152 | Pandora: 4-D White Matter Bundle Population-Based Atlases Derived from Diffusion MRI Fiber Tractography. Neuroinformatics, 2021, 19, 447-460. | 2.8 | 15 |
| 153 | Hippocampal activation and connectivity in the aging brain. Brain Imaging and Behavior, 2021, 15, 711-726. | 2.1 | 15 |
| 154 | Effect of oral appliances on genioglossus muscle tonicity seen with diffusion tensor imaging: A pilot study. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2009, 107, e57-e63. | 1.4 | 14 |
| 155 | Evaluation of multiatlas label fusion forin vivomagnetic resonance imaging orbital segmentation. Journal of Medical Imaging, 2014, 1, 024002. | 1.5 | 14 |
| 156 | Acceleration of spleen segmentation with end-to-end deep learning method and automated pipeline. Computers in Biology and Medicine, 2019, 107, 109-117. | 7.0 | 14 |
| 157 | Medial temporal lobe volumes in late-life depression: effects of age and vascular risk factors. Brain Imaging and Behavior, 2020, 14, 19-29. | 2.1 | 14 |
| 158 | Microstructural Neuroimaging of Frailty in Cognitively Normal Older Adults. Frontiers in Medicine, 2020, 7, 546344. | 2.6 | 14 |
| 159 | Inter-Scanner Harmonization of High Angular Resolution DW-MRI Using Null Space Deep Learning. Mathematics and Visualization, 2019, , 193-201. | 0.6 | 14 |
| 160 | Mapping Lifetime Brain Volumetry with Covariate-Adjusted Restricted Cubic Spline Regression from Cross-Sectional Multi-site MRI. Lecture Notes in Computer Science, 2016, 9900, 81-88. | 1.3 | 14 |
| 161 | Improving splenomegaly segmentation by learning from heterogeneous multi-source labels. , 2019, 10949, . | | 14 |
| 162 | Quantitative CT Imaging of Ventral Hernias: Preliminary Validation of an Anatomical Labeling Protocol. PLoS ONE, 2015, 10, e0141671. | 2.5 | 13 |

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| 163 | Tests of cortical parcellation based on white matter connectivity using diffusion tensor imaging. NeuroImage, 2018, 170, 321-331. | 4.2 | 13 |
| 164 | White matter microstructure correlates of general and specific second-order factors of psychopathology. NeuroImage: Clinical, 2019, 22, 101705. | 2.7 | 13 |
| 165 | Gray Matter Surface Based Spatial Statistics (GS-BSS) in Diffusion Microstructure. Lecture Notes in Computer Science, 2017, 10433, 638-646. | 1.3 | 13 |
| 166 | Outâ€ofâ€atlas likelihood estimation using multiâ€atlas segmentation. Medical Physics, 2013, 40, 043702. | 3.0 | 12 |
| 167 | A brain MRI atlas of the common squirrel monkey,Saimiri sciureus. , 2014, 9038, 90380C. | | 12 |
| 168 | Impact of family structure and common environment on heritability estimation for neuroimaging genetics studies using Sequential Oligogenic Linkage Analysis Routines. Journal of Medical Imaging, 2014, 1, 014005. | 1.5 | 12 |
| 169 | Shape-constrained multi-atlas segmentation of spleen in CT. Proceedings of SPIE, 2014, 9034, 903446. | 0.8 | 12 |
| 170 | Registration-based image enhancement improves multi-atlas segmentation of the thalamic nuclei and hippocampal subfields. Magnetic Resonance Imaging, 2019, 59, 143-152. | 1.8 | 12 |
| 171 | Brainstem Functional Connectivity Disturbances in Epilepsy may Recover After Successful Surgery. Neurosurgery, 2020, 86, 417-428. | 1.1 | 12 |
| 172 | Using phecode analysis to characterize co-occurring medical conditions in autism spectrum disorder. Autism, 2021, 25, 800-811. | 4.1 | 12 |
| 173 | Default mode network connectivity and cognition in the aging brain: the effects of age, sex, and APOE genotype.. Neurobiology of Aging, 2021, 104, 10-23. | 3.1 | 12 |
| 174 | Automated Characterization of Body Composition and Frailty with Clinically Acquired CT. Lecture Notes in Computer Science, 2018, 10734, 25-35. | 1.3 | 12 |
| 175 | Sulcal depth-based cortical shape analysis in normal healthy control and schizophrenia groups. , 2018, 10574, . | | 12 |
| 176 | Distributed deep learning for robust multi-site segmentation of CT imaging after traumatic brain injury. , 2019, 10949, . | | 12 |
| 177 | Linear and Curvilinear Trajectories of Cortical Loss with Advancing Age and Disease Duration in Parkinsonâ€™s Disease. , 2016, 7, 220. | | 12 |
| 178 | Foibles, follies, and fusion: Web-based collaboration for medical image labeling. NeuroImage, 2012, 59, 530-539. | 4.2 | 11 |
| 179 | A surgeon specific automatic path planning algorithm for deep brain stimulation. , 2012, , . | | 11 |
| 180 | Voxelwise Relationships Between Distribution Volume Ratio and Cerebral Blood Flow: Implications for Analysis of Î²-Amyloid Images. Journal of Nuclear Medicine, 2015, 56, 1042-1047. | 5.0 | 11 |

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| 181 | Quantifying the impact of underlying measurement error on cervical spinal cord diffusion tensor imaging at 3T. Journal of Magnetic Resonance Imaging, 2016, 44, 1608-1618. | 3.4 | 11 |
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