

# Donald Louis Collins

## List of Publications by Year in descending order

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497  
papers

51,300  
citations

2963

93  
h-index

1928

207  
g-index

576  
all docs

576  
docs citations

576  
times ranked

39846  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	5.4	3,589
2	Automatic 3D Intersubject Registration of MR Volumetric Data in Standardized Talairach Space. Journal of Computer Assisted Tomography, 1994, 18, 192-205.	0.5	3,049
3	Evaluation of 14 nonlinear deformation algorithms applied to human brain MRI registration. NeuroImage, 2009, 46, 786-802.	2.1	1,988
4	A probabilistic atlas and reference system for the human brain: International Consortium for Brain Mapping (ICBM). Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1293-1322.	1.8	1,959
5	Unbiased average age-appropriate atlases for pediatric studies. NeuroImage, 2011, 54, 313-327.	2.1	1,825
6	Design and construction of a realistic digital brain phantom. IEEE Transactions on Medical Imaging, 1998, 17, 463-468.	5.4	1,506
7	Enhancement of MR Images Using Registration for Signal Averaging. Journal of Computer Assisted Tomography, 1998, 22, 324-333.	0.5	1,248
8	Structural Maturation of Neural Pathways in Children and Adolescents: In Vivo Study. Science, 1999, 283, 1908-1911.	6.0	1,196
9	Automatic 3-D model-based neuroanatomical segmentation. Human Brain Mapping, 1995, 3, 190-208.	1.9	844
10	Adaptive non-local means denoising of MR images with spatially varying noise levels. Journal of Magnetic Resonance Imaging, 2010, 31, 192-203.	1.9	823
11	Early brain development in infants at high risk for autism spectrum disorder. Nature, 2017, 542, 348-351.	13.7	808
12	Maturation of white matter in the human brain: a review of magnetic resonance studies. Brain Research Bulletin, 2001, 54, 255-266.	1.4	788
13	Patch-based segmentation using expert priors: Application to hippocampus and ventricle segmentation. NeuroImage, 2011, 54, 940-954.	2.1	692
14	Volumetry of Hippocampus and Amygdala with High-resolution MRI and Three-dimensional Analysis Software: Minimizing the Discrepancies between Laboratories. Cerebral Cortex, 2000, 10, 433-442.	1.6	633
15	Accurate, noninvasive diagnosis of human brain tumors by using proton magnetic resonance spectroscopy. Nature Medicine, 1996, 2, 323-325.	15.2	522
16	BEaST: Brain extraction based on nonlocal segmentation technique. NeuroImage, 2012, 59, 2362-2373.	2.1	507
17	Brain templates and atlases. NeuroImage, 2012, 62, 911-922.	2.1	461
18	Incorporating Prior Knowledge into Image Registration. NeuroImage, 1997, 6, 344-352.	2.1	427

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19	Toward defining deep brain stimulation targets in MNI space: A subcortical atlas based on multimodal MRI, histology and structural connectivity. <i>NeuroImage</i> , 2018, 170, 271-282.	2.1	422
20	Anatomical mapping of functional activation in stereotactic coordinate space. <i>NeuroImage</i> , 1992, 1, 43-53.	2.1	402
21	SCT: Spinal Cord Toolbox, an open-source software for processing spinal cord MRI data. <i>NeuroImage</i> , 2017, 145, 24-43.	2.1	390
22	A Unified Statistical Approach to Deformation-Based Morphometry. <i>NeuroImage</i> , 2001, 14, 595-606.	2.1	372
23	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1901-1920.	5.4	363
24	Symmetric Atlasing and Model Based Segmentation: An Application to the Hippocampus in Older Adults. <i>Lecture Notes in Computer Science</i> , 2006, 9, 58-66.	1.0	350
25	Changes in Cortical Thickness During the Course of Illness in Schizophrenia. <i>Archives of General Psychiatry</i> , 2011, 68, 871.	13.8	329
26	Total and Regional Brain Volumes in a Population-Based Normative Sample from 4 to 18 Years: The NIH MRI Study of Normal Brain Development. <i>Cerebral Cortex</i> , 2012, 22, 1-12.	1.6	322
27	Animal: Validation and Applications of Nonlinear Registration-Based Segmentation. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1997, 11, 1271-1294.	0.7	317
28	A Four-Dimensional Probabilistic Atlas of the Human Brain. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2001, 8, 401-430.	2.2	313
29	Performing label-fusion-based segmentation using multiple automatically generated templates. <i>Human Brain Mapping</i> , 2013, 34, 2635-2654.	1.9	311
30	Diffusion Weighted Image Denoising Using Overcomplete Local PCA. <i>PLoS ONE</i> , 2013, 8, e73021.	1.1	299
31	Volumetry of Temporopolar, Perirhinal, Entorhinal and Parahippocampal Cortex from High-resolution MR Images: Considering the Variability of the Collateral Sulcus. <i>Cerebral Cortex</i> , 2002, 12, 1342-1353.	1.6	282
32	Review of automatic segmentation methods of multiple sclerosis white matter lesions on conventional magnetic resonance imaging. <i>Medical Image Analysis</i> , 2013, 17, 1-18.	7.0	280
33	Whole-brain voxel-based statistical analysis of gray matter and white matter in temporal lobe epilepsy. <i>NeuroImage</i> , 2004, 23, 717-723.	2.1	276
34	Age and Gender Predict Volume Decline in the Anterior and Posterior Hippocampus in Early Adulthood. <i>Journal of Neuroscience</i> , 2001, 21, 194-200.	1.7	273
35	The creation of a brain atlas for image guided neurosurgery using serial histological data. <i>NeuroImage</i> , 2006, 30, 359-376.	2.1	271
36	Genetic Contributions to Human Brain Morphology and Intelligence. <i>Journal of Neuroscience</i> , 2006, 26, 10235-10242.	1.7	271

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37	Focal Gray Matter Changes in Schizophrenia across the Course of the Illness: A 5-Year Follow-Up Study. <i>Neuropsychopharmacology</i> , 2007, 32, 2057-2066.	2.8	267
38	Stress regulation in the central nervous system: evidence from structural and functional neuroimaging studies in human populations - 2008 Curt Richter Award Winner. <i>Psychoneuroendocrinology</i> , 2010, 35, 179-191.	1.3	267
39	Functional neuroimaging of high-risk 6-month-old infants predicts a diagnosis of autism at 24 months of age. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	264
40	Focal Gray Matter Density Changes in Schizophrenia. <i>Archives of General Psychiatry</i> , 2001, 58, 1118.	13.8	255
41	MRI-PET Correlation in Three Dimensions Using a Volume-of-Interest (VOI) Atlas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991, 11, A69-A78.	2.4	253
42	Imaging of axonal damage in multiple sclerosis: Spatial distribution of magnetic resonance imaging lesions. <i>Annals of Neurology</i> , 1997, 41, 385-391.	2.8	253
43	Trajectories of cortical thickness maturation in normal brain development " The importance of quality control procedures. <i>NeuroImage</i> , 2016, 125, 267-279.	2.1	251
44	Automated cortical thickness measurements from MRI can accurately separate Alzheimer's patients from normal elderly controls. <i>Neurobiology of Aging</i> , 2008, 29, 23-30.	1.5	242
45	A new improved version of the realistic digital brain phantom. <i>NeuroImage</i> , 2006, 32, 138-145.	2.1	236
46	A review of calibration techniques for freehand 3-D ultrasound systems. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 449-471.	0.7	229
47	New methods for MRI denoising based on sparseness and self-similarity. <i>Medical Image Analysis</i> , 2012, 16, 18-27.	7.0	224
48	Prediction of Alzheimer's disease in subjects with mild cognitive impairment from the ADNI cohort using patterns of cortical thinning. <i>NeuroImage</i> , 2013, 65, 511-521.	2.1	224
49	Non-local MRI upsampling. <i>Medical Image Analysis</i> , 2010, 14, 784-792.	7.0	218
50	Towards accurate, automatic segmentation of the hippocampus and amygdala from MRI by augmenting ANIMAL with a template library and label fusion. <i>NeuroImage</i> , 2010, 52, 1355-1366.	2.1	215
51	Brain shift in neuronavigation of brain tumors: A review. <i>Medical Image Analysis</i> , 2017, 35, 403-420.	7.0	214
52	Tuning and comparing spatial normalization methods. <i>Medical Image Analysis</i> , 2004, 8, 311-323.	7.0	210
53	Developmental Changes in Organization of Structural Brain Networks. <i>Cerebral Cortex</i> , 2013, 23, 2072-2085.	1.6	203
54	Robust Rician noise estimation for MR images. <i>Medical Image Analysis</i> , 2010, 14, 483-493.	7.0	200

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55	Twenty New Digital Brain Phantoms for Creation of Validation Image Data Bases. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 1410-1416.	5.4	198
56	Network connectivity determines cortical thinning in early Parkinson's disease progression. <i>Nature Communications</i> , 2018, 9, 12.	5.8	198
57	A review of calibration techniques for freehand 3-D ultrasound systems. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 143-165.	0.7	196
58	Use of proton magnetic resonance spectroscopy for monitoring disease progression in multiple sclerosis. <i>Annals of Neurology</i> , 1994, 36, 76-82.	2.8	192
59	Network structure of brain atrophy in de novo Parkinson's disease. <i>ELife</i> , 2015, 4, .	2.8	187
60	Structural plasticity of the social brain: Differential change after socio-affective and cognitive mental training. <i>Science Advances</i> , 2017, 3, e1700489.	4.7	184
61	Retrospective evaluation of intersubject brain registration. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 1120-1130.	5.4	179
62	Model-based 3-D segmentation of multiple sclerosis lesions in magnetic resonance brain images. <i>IEEE Transactions on Medical Imaging</i> , 1995, 14, 442-453.	5.4	174
63	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. <i>Biological Psychiatry</i> , 2017, 82, 186-193.	0.7	173
64	Axonal metabolic recovery in multiple sclerosis patients treated with interferon $\beta$ -1b. <i>Journal of Neurology</i> , 2001, 248, 979-986.	1.8	171
65	Magnetization transfer ratio evolution with demyelination and remyelination in multiple sclerosis lesions. <i>Annals of Neurology</i> , 2008, 63, 254-262.	2.8	169
66	High-frequency oscillations, extent of surgical resection, and surgical outcome in drug-resistant focal epilepsy. <i>Epilepsia</i> , 2013, 54, 848-857.	2.6	166
67	White-matter diffusion abnormalities in temporal-lobe epilepsy with and without mesial temporal sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2009, 80, 312-319.	0.9	165
68	Standardized Assessment of Automatic Segmentation of White Matter Hyperintensities and Results of the WMH Segmentation Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2556-2568.	5.4	165
69	Focal white matter density changes in schizophrenia: reduced inter-hemispheric connectivity. <i>NeuroImage</i> , 2004, 21, 27-35.	2.1	163
70	The EADC-ADNI Harmonized Protocol for manual hippocampal segmentation on magnetic resonance: Evidence of validity. <i>Alzheimer's and Dementia</i> , 2015, 11, 111-125.	0.4	162
71	Heritability of regional and global brain structure at the onset of puberty: A magnetic resonance imaging study in 9-year-old twin pairs. <i>Human Brain Mapping</i> , 2009, 30, 2184-2196.	1.9	155
72	An MRI based average macaque monkey stereotaxic atlas and space (MNI monkey space). <i>NeuroImage</i> , 2011, 55, 1435-1442.	2.1	154

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73	Anxious/Depressed Symptoms are Linked to Right Ventromedial Prefrontal Cortical Thickness Maturation in Healthy Children and Young Adults. <i>Cerebral Cortex</i> , 2014, 24, 2941-2950.	1.6	149
74	Relating neocortical pathology to disability progression in multiple sclerosis using MRI. <i>NeuroImage</i> , 2004, 23, 1168-1175.	2.1	147
75	A new method for structural volume analysis of longitudinal brain MRI data and its application in studying the growth trajectories of anatomical brain structures in childhood. <i>NeuroImage</i> , 2013, 82, 393-402.	2.1	145
76	Automated extraction and variability analysis of sulcal neuroanatomy. <i>IEEE Transactions on Medical Imaging</i> , 1999, 18, 206-217.	5.4	143
77	PAM50: Unbiased multimodal template of the brainstem and spinal cord aligned with the ICBM152 space. <i>NeuroImage</i> , 2018, 165, 170-179.	2.1	143
78	ANIMAL+INSECT: Improved Cortical Structure Segmentation. <i>Lecture Notes in Computer Science</i> , 1999, , 210-223.	1.0	139
79	Object-Based Morphometry of the Cerebral Cortex. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 968-982.	5.4	136
80	Decreased cerebral cortical serotonin transporter binding in ecstasy users: a positron emission tomography/[11C]DASB and structural brain imaging study. <i>Brain</i> , 2010, 133, 1779-1797.	3.7	134
81	MRI-Based Automated Computer Classification of Probable AD Versus Normal Controls. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 509-520.	5.4	133
82	MRI correlates of cognitive impairment in childhood-onset multiple sclerosis.. <i>Neuropsychology</i> , 2011, 25, 319-332.	1.0	132
83	Simultaneous segmentation and grading of anatomical structures for patient's classification: Application to Alzheimer's disease. <i>NeuroImage</i> , 2012, 59, 3736-3747.	2.1	129
84	Multivariate analysis of MRI data for Alzheimer's disease, mild cognitive impairment and healthy controls. <i>NeuroImage</i> , 2011, 54, 1178-1187.	2.1	128
85	Evaluating intensity normalization on MRIs of human brain with multiple sclerosis. <i>Medical Image Analysis</i> , 2011, 15, 267-282.	7.0	126
86	Automated detection of focal cortical dysplasia lesions using computational models of their MRI characteristics and texture analysis. <i>NeuroImage</i> , 2003, 19, 1748-1759.	2.1	125
87	The state of the art of visualization in mixed reality image guided surgery. <i>Computerized Medical Imaging and Graphics</i> , 2013, 37, 98-112.	3.5	122
88	A comparison of publicly available linear MRI stereotaxic registration techniques. <i>NeuroImage</i> , 2018, 174, 191-200.	2.1	120
89	Neuroanatomical differences in obesity: meta-analytic findings and their validation in an independent dataset. <i>International Journal of Obesity</i> , 2019, 43, 943-951.	1.6	116
90	<title>Warping of a computerized 3-D atlas to match brain image volumes for quantitative neuroanatomical and functional analysis</title>., 1991, 1445, 236.		111

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91	Neural circuitry at age 6 months associated with later repetitive behavior and sensory responsiveness in autism. <i>Molecular Autism</i> , 2017, 8, 8.	2.6	111
92	Overlapping and Segregating Structural Brain Abnormalities in Twins With Schizophrenia or Bipolar Disorder. <i>Archives of General Psychiatry</i> , 2012, 69, 349.	13.8	107
93	Onset of multiple sclerosis before adulthood leads to failure of age-expected brain growth. <i>Neurology</i> , 2014, 83, 2140-2146.	1.5	107
94	Training labels for hippocampal segmentation based on the EADCâ€ADNI harmonized hippocampal protocol. <i>Alzheimer's and Dementia</i> , 2015, 11, 175-183.	0.4	105
95	Neurobehavioral correlates of obesity are largely heritable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9312-9317.	3.3	105
96	Scoring by nonlocal image patch estimator for early detection of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2012, 1, 141-152.	1.4	104
97	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. <i>Molecular Psychiatry</i> , 2014, 19, 555-559.	4.1	104
98	Assessing the risk of central post-stroke pain of thalamic origin by lesion mapping. <i>Brain</i> , 2012, 135, 2536-2545.	3.7	101
99	Structural imaging biomarkers of Alzheimer's disease: predicting disease progression. <i>Neurobiology of Aging</i> , 2015, 36, S23-S31.	1.5	101
100	Structural Brain Alterations Associated with Rapid Eye Movement Sleep Behavior Disorder in Parkinson's Disease. <i>Scientific Reports</i> , 2016, 6, 26782.	1.6	101
101	The Canadian Dementia Imaging Protocol: Harmonizing National Cohorts. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 456-465.	1.9	101
102	Gray and white matter density changes in monozygotic and same-sex dizygotic twins discordant for schizophrenia using voxel-based morphometry. <i>NeuroImage</i> , 2006, 31, 482-488.	2.1	100
103	Design and Implementation of an Automated Partial Volume Correction in PET: Application to Dopamine Receptor Quantification in the Normal Human Striatum. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1097-1106.	2.8	96
104	Diurnal fluctuations in brain volume: Statistical analyses of MRI from large populations. <i>NeuroImage</i> , 2015, 118, 126-132.	2.1	96
105	Brain atrophy after immunoablation and stem cell transplantation in multiple sclerosis. <i>Neurology</i> , 2006, 66, 1935-1937.	1.5	94
106	Cerebral white matter in early puberty is associated with luteinizing hormone concentrations. <i>Psychoneuroendocrinology</i> , 2008, 33, 909-915.	1.3	94
107	Association of Brain Structure Changes and Cognitive Function With Combination Antiretroviral Therapy in HIV-Positive Individuals. <i>JAMA Neurology</i> , 2018, 75, 72.	4.5	94
108	A dataset of multi-contrast population-averaged brain MRI atlases of a Parkinson's disease cohort. <i>Data in Brief</i> , 2017, 12, 370-379.	0.5	94

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109	Hippocampal shape analysis using medial surfaces. <i>NeuroImage</i> , 2005, 25, 1077-1089.	2.1	93
110	Voxel-based analysis of the evolution of magnetization transfer ratio to quantify remyelination and demyelination with histopathological validation in a multiple sclerosis lesion. <i>NeuroImage</i> , 2007, 36, 1152-1158.	2.1	93
111	Online database of clinical MR and ultrasound images of brain tumors. <i>Medical Physics</i> , 2012, 39, 3253-3261.	1.6	93
112	The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 82, 176-185.	0.7	93
113	Framework for integrated MRI average of the spinal cord white and gray matter: The MNI "Poly" AMU template. <i>NeuroImage</i> , 2014, 102, 817-827.	2.1	92
114	Volumetric analysis of medial temporal lobe structures in brain development from childhood to adolescence. <i>NeuroImage</i> , 2013, 74, 276-287.	2.1	91
115	Towards a validation of atlas warping techniques. <i>Medical Image Analysis</i> , 2008, 12, 713-726.	7.0	90
116	Relating one-year cognitive change in mild cognitive impairment to baseline MRI features. <i>NeuroImage</i> , 2009, 47, 1363-1370.	2.1	90
117	Brain Plasticity and Intellectual Ability Are Influenced by Shared Genes. <i>Journal of Neuroscience</i> , 2010, 30, 5519-5524.	1.7	90
118	Prediction of brain maturity based on cortical thickness at different spatial resolutions. <i>NeuroImage</i> , 2015, 111, 350-359.	2.1	90
119	Feature-based morphometry: Discovering group-related anatomical patterns. <i>NeuroImage</i> , 2010, 49, 2318-2327.	2.1	88
120	Validation of vessel-based registration for correction of brain shift. <i>Medical Image Analysis</i> , 2007, 11, 374-388.	7.0	86
121	A deformable phantom for 4D radiotherapy verification: Design and image registration evaluation. <i>Medical Physics</i> , 2008, 35, 1094-1102.	1.6	86
122	Right Anterior Cingulate Cortical Thickness and Bilateral Striatal Volume Correlate with Child Behavior Checklist Aggressive Behavior Scores in Healthy Children. <i>Biological Psychiatry</i> , 2011, 70, 283-290.	0.7	86
123	Self-similarity weighted mutual information: A new nonrigid image registration metric. <i>Medical Image Analysis</i> , 2014, 18, 343-358.	7.0	86
124	Network inefficiencies in autism spectrum disorder at 24 months. <i>Translational Psychiatry</i> , 2014, 4, e388-e388.	2.4	85
125	Validation of a Regression Technique for Segmentation of White Matter Hyperintensities in Alzheimer's Disease. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1758-1768.	5.4	85
126	Adaptive multiresolution non-local means filter for three-dimensional magnetic resonance image denoising. <i>IET Image Processing</i> , 2012, 6, 558.	1.4	84



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127	Automated atlas integration and interactive three-dimensional visualization tools for planning and guidance in functional neurosurgery. <i>IEEE Transactions on Medical Imaging</i> , 1998, 17, 672-680.	5.4	83
128	Genetic influences on thinning of the cerebral cortex during development. <i>NeuroImage</i> , 2012, 59, 3871-3880.	2.1	83
129	Augmented reality in neurovascular surgery: feasibility and first uses in the operating room. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1823-1836.	1.7	83
130	Evaluation of automated techniques for the quantification of grey matter atrophy in patients with multiple sclerosis. <i>NeuroImage</i> , 2010, 52, 1261-1267.	2.1	82
131	Detecting Early Preclinical Alzheimer's Disease via Cognition, Neuropsychiatry, and Neuroimaging: Qualitative Review and Recommendations for Testing. <i>Journal of Alzheimer's Disease</i> , 2014, 42, S375-S382.	1.2	81
132	Reduced head and brain size for age and disproportionately smaller thalami in child-onset MS. <i>Neurology</i> , 2012, 78, 194-201.	1.5	80
133	Comparing fully automated state-of-the-art cerebellum parcellation from magnetic resonance images. <i>NeuroImage</i> , 2018, 183, 150-172.	2.1	80
134	MRI Superresolution Using Self-Similarity and Image Priors. <i>International Journal of Biomedical Imaging</i> , 2010, 2010, 1-11.	3.0	79
135	Performance comparison of 10 different classification techniques in segmenting white matter hyperintensities in aging. <i>NeuroImage</i> , 2017, 157, 233-249.	2.1	79
136	Mapping reliability in multicenter MRI: Voxel-based morphometry and cortical thickness. <i>Human Brain Mapping</i> , 2010, 31, 1967-1982.	1.9	77
137	Frontolimbic neural circuitry at 6 months predicts individual differences in joint attention at 9 months. <i>Developmental Science</i> , 2013, 16, 186-197.	1.3	77
138	Brain morphometry using 3D moment invariants. <i>Medical Image Analysis</i> , 2004, 8, 187-196.	7.0	75
139	Regionally Specific Brain Volumetric and Cortical Thickness Changes in HIV-Infected Patients in the HAART Era. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2017, 74, 563-570.	0.9	75
140	PET-SORTEO: validation and development of database of Simulated PET volumes. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 1321-1328.	1.2	74
141	Cannabis use and progressive cortical thickness loss in areas rich in CB1 receptors during the first five years of schizophrenia. <i>European Neuropsychopharmacology</i> , 2010, 20, 855-865.	0.3	74
142	IBIS: an OR ready open-source platform for image-guided neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 363-378.	1.7	74
143	Motion correction of multi-frame PET data in neuroreceptor mapping: Simulation based validation. <i>NeuroImage</i> , 2009, 47, 1496-1505.	2.1	73
144	Jacobian integration method increases the statistical power to measure gray matter atrophy in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2014, 4, 10-17.	1.4	73

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145	Quantifying attention shifts in augmented reality image-guided neurosurgery. <i>Healthcare Technology Letters</i> , 2017, 4, 188-192.	1.9	72
146	Abnormal effector and regulatory T cell subsets in paediatric-onset multiple sclerosis. <i>Brain</i> , 2019, 142, 617-632.	3.7	72
147	Regional brain atrophy in children with multiple sclerosis. <i>NeuroImage</i> , 2011, 58, 409-415.	2.1	71
148	A multi-modal approach to computer-assisted deep brain stimulation trajectory planning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 687-704.	1.7	71
149	Subcortical Brain and Behavior Phenotypes Differentiate Infants With Autism Versus Language Delay. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 664-672.	1.1	71
150	Cortical Thickness, Cortico-Amygdalar Networks, and Externalizing Behaviors in Healthy Children. <i>Biological Psychiatry</i> , 2014, 75, 65-72.	0.7	70
151	Automatic Deformable MR-Ultrasound Registration for Image-Guided Neurosurgery. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 366-380.	5.4	70
152	Clinical validation of vessel-based registration for correction of brain-shift. <i>Medical Image Analysis</i> , 2007, 11, 673-684.	7.0	69
153	Gradient distortions in MRI: Characterizing and correcting for their effects on SIENA-generated measures of brain volume change. <i>NeuroImage</i> , 2010, 49, 1601-1611.	2.1	68
154	Multi-contrast unbiased MRI atlas of a Parkinson's disease population. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 329-341.	1.7	68
155	An Optimized PatchMatch for multi-scale and multi-feature label fusion. <i>NeuroImage</i> , 2016, 124, 770-782.	2.1	68
156	Computational Models of MRI Characteristics of Focal Cortical Dysplasia Improve Lesion Detection. <i>NeuroImage</i> , 2002, 17, 1755-1760.	2.1	67
157	DVV: A Taxonomy for Mixed Reality Visualization in Image Guided Surgery. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 332-352.	2.9	67
158	Longitudinal Trajectories of Brain Volume and Cortical Thickness in Treated and Untreated Primary Human Immunodeficiency Virus Infection. <i>Clinical Infectious Diseases</i> , 2018, 67, 1697-1704.	2.9	67
159	Comparison of piecewise linear, linear, and nonlinear atlas-to-patient warping techniques: Analysis of the labeling of subcortical nuclei for functional neurosurgical applications. <i>Human Brain Mapping</i> , 2009, 30, 3574-3595.	1.9	66
160	Sensitivity of voxel-based morphometry analysis to choice of imaging protocol at 3T. <i>NeuroImage</i> , 2009, 44, 827-838.	2.1	66
161	A clinical-anatomical signature of Parkinson's disease identified with partial least squares and magnetic resonance imaging. <i>NeuroImage</i> , 2019, 190, 69-78.	2.1	66
162	New prototype neuronavigation system based on preoperative imaging and intraoperative freehand ultrasound: system description and validation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2011, 6, 507-522.	1.7	65

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163	Striatal shape abnormalities as novel neurodevelopmental endophenotypes in schizophrenia: A longitudinal study. <i>Human Brain Mapping</i> , 2015, 36, 1458-1469.	1.9	65
164	MINC 2.0: A Flexible Format for Multi-Modal Images. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 35.	1.3	65
165	Validation of <sc>T</sc>-based segmentations of white matter hyperintensity volumes in large-scale datasets of aging. <i>Human Brain Mapping</i> , 2018, 39, 1093-1107.	1.9	65
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