

Sebastien Ourselin

List of Publications by Year in descending order

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Version: 2024-02-01

659
papers

37,255
citations

3721

89
h-index

5806

161
g-index

735
all docs

735
docs citations

735
times ranked

42411
citing authors

#	ARTICLE	IF	CITATIONS
1	Attributes and predictors of long COVID. <i>Nature Medicine</i> , 2021, 27, 626-631.	15.2	1,613
2	Risk of COVID-19 among front-line health-care workers and the general community: a prospective cohort study. <i>Lancet Public Health</i> , The, 2020, 5, e475-e483.	4.7	1,595
3	Real-time tracking of self-reported symptoms to predict potential COVID-19. <i>Nature Medicine</i> , 2020, 26, 1037-1040.	15.2	1,173
4	Fast free-form deformation using graphics processing units. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 98, 278-284.	2.6	841
5	Vaccine side-effects and SARS-CoV-2 infection after vaccination in users of the COVID Symptom Study app in the UK: a prospective observational study. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 939-949.	4.6	744
6	Risk factors and disease profile of post-vaccination SARS-CoV-2 infection in UK users of the COVID Symptom Study app: a prospective, community-based, nested, case-control study. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 43-55.	4.6	573
7	Symptom prevalence, duration, and risk of hospital admission in individuals infected with SARS-CoV-2 during periods of omicron and delta variant dominance: a prospective observational study from the ZOE COVID Study. <i>Lancet</i> , The, 2022, 399, 1618-1624.	6.3	547
8	Interactive Medical Image Segmentation Using Deep Learning With Image-Specific Fine Tuning. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1562-1573.	5.4	541
9	Reconstructing a 3D structure from serial histological sections. <i>Image and Vision Computing</i> , 2001, 19, 25-31.	2.7	482
10	Presymptomatic cognitive and neuroanatomical changes in genetic frontotemporal dementia in the Genetic Frontotemporal dementia Initiative (GENFI) study: a cross-sectional analysis. <i>Lancet Neurology</i> , The, 2015, 14, 253-262.	4.9	482
11	Head size, age and gender adjustment in MRI studies: a necessary nuisance?. <i>NeuroImage</i> , 2010, 53, 1244-1255.	2.1	421
12	NiftyNet: a deep-learning platform for medical imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 158, 113-122.	2.6	407
13	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1901-1920.	5.4	363
14	Serum neurofilament light chain protein is a measure of disease intensity in frontotemporal dementia. <i>Neurology</i> , 2016, 87, 1329-1336.	1.5	354
15	Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. <i>Brain</i> , 2018, 141, 391-408.	3.7	352
16	Risk of long COVID associated with delta versus omicron variants of SARS-CoV-2. <i>Lancet</i> , The, 2022, 399, 2263-2264.	6.3	327
17	Aleatoric uncertainty estimation with test-time augmentation for medical image segmentation with convolutional neural networks. <i>Neurocomputing</i> , 2019, 338, 34-45.	3.5	322
18	Rapid implementation of mobile technology for real-time epidemiology of COVID-19. <i>Science</i> , 2020, 368, 1362-1367.	6.0	313

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19	Attenuation Correction Synthesis for Hybrid PET-MR Scanners: Application to Brain Studies. IEEE Transactions on Medical Imaging, 2014, 33, 2332-2341.	5.4	311
20	Regional variability of imaging biomarkers in autosomal dominant Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4502-9.	3.3	309
21	Clinical and neuroanatomical signatures of tissue pathology in frontotemporal lobar degeneration. Brain, 2011, 134, 2565-2581.	3.7	306
22	Illness duration and symptom profile in symptomatic UK school-aged children tested for SARS-CoV-2. The Lancet Child and Adolescent Health, 2021, 5, 708-718.	2.7	304
23	Deep gray matter volume loss drives disability worsening in multiple sclerosis. Annals of Neurology, 2018, 83, 210-222.	2.8	295
24	A three-dimensional, histological and deformable atlas of the human basal ganglia. I. Atlas construction based on immunohistochemical and MRI data. NeuroImage, 2007, 34, 618-638.	2.1	288
25	Weakly-supervised convolutional neural networks for multimodal image registration. Medical Image Analysis, 2018, 49, 1-13.	7.0	280
26	Issues with threshold masking in voxel-based morphometry of atrophied brains. NeuroImage, 2009, 44, 99-111.	2.1	275
27	Progression of regional grey matter atrophy in multiple sclerosis. Brain, 2018, 141, 1665-1677.	3.7	269
28	Changes in symptomatology, reinfection, and transmissibility associated with the SARS-CoV-2 variant B.1.1.7: an ecological study. Lancet Public Health, The, 2021, 6, e335-e345.	4.7	269
29	Geodesic Information Flows: Spatially-Variant Graphs and Their Application to Segmentation and Fusion. IEEE Transactions on Medical Imaging, 2015, 34, 1976-1988.	5.4	265
30	Uncovering the heterogeneity and temporal complexity of neurodegenerative diseases with Subtype and Stage Inference. Nature Communications, 2018, 9, 4273.	5.8	263
31	TorchIO: A Python library for efficient loading, preprocessing, augmentation and patch-based sampling of medical images in deep learning. Computer Methods and Programs in Biomedicine, 2021, 208, 106236.	2.6	257
32	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	5.8	252
33	Global image registration using a symmetric block-matching approach. Journal of Medical Imaging, 2014, 1, 024003.	0.8	245
34	A data-driven model of biomarker changes in sporadic Alzheimer's disease. Brain, 2014, 137, 2564-2577.	3.7	243
35	Automatic Brain Tumor Segmentation Using Cascaded Anisotropic Convolutional Neural Networks. Lecture Notes in Computer Science, 2018, , 178-190.	1.0	243
36	Brain imaging in the assessment for epilepsy surgery. Lancet Neurology, The, 2016, 15, 420-433.	4.9	239

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37	Automated cross-sectional and longitudinal hippocampal volume measurement in mild cognitive impairment and Alzheimer's disease. <i>NeuroImage</i> , 2010, 51, 1345-1359.	2.1	224
38	Progressive logopenic/phonological aphasia: Erosion of the language network. <i>NeuroImage</i> , 2010, 49, 984-993.	2.1	223
39	STEPS: Similarity and Truth Estimation for Propagated Segmentations and its application to hippocampal segmentation and brain parcellation. <i>Medical Image Analysis</i> , 2013, 17, 671-684.	7.0	215
40	Longitudinal multiple sclerosis lesion segmentation: Resource and challenge. <i>NeuroImage</i> , 2017, 148, 77-102.	2.1	215
41	Model-Based Learning for Accelerated, Limited-View 3-D Photoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1382-1393.	5.4	212
42	Distinct profiles of brain atrophy in frontotemporal lobar degeneration caused by progranulin and tau mutations. <i>NeuroImage</i> , 2010, 53, 1070-1076.	2.1	209
43	Accurate multimodal probabilistic prediction of conversion to Alzheimer's disease in patients with mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2013, 2, 735-745.	1.4	209
44	Neurofilament light chain: a biomarker for genetic frontotemporal dementia. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 623-636.	1.7	207
45	On the Compactness, Efficiency, and Representation of 3D Convolutional Networks: Brain Parcellation as a Pretext Task. <i>Lecture Notes in Computer Science</i> , 2017, , 348-360.	1.0	202
46	A multi-centre evaluation of eleven clinically feasible brain PET/MRI attenuation correction techniques using a large cohort of patients. <i>NeuroImage</i> , 2017, 147, 346-359.	2.1	200
47	An event-based model for disease progression and its application in familial Alzheimer's disease and Huntington's disease. <i>NeuroImage</i> , 2012, 60, 1880-1889.	2.1	192
48	COVID-19 vaccine waning and effectiveness and side-effects of boosters: a prospective community study from the ZOE COVID Study. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 1002-1010.	4.6	192
49	Right ventricle segmentation from cardiac MRI: A collation study. <i>Medical Image Analysis</i> , 2015, 19, 187-202.	7.0	189
50	A Registration-Based Propagation Framework for Automatic Whole Heart Segmentation of Cardiac MRI. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1612-1625.	5.4	186
51	Toward adaptive radiotherapy for head and neck patients: Feasibility study on using CT-to-CBCT deformable registration for dose-of-the-day calculations. <i>Medical Physics</i> , 2014, 41, 031703.	1.6	183
52	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. <i>Medical Image Analysis</i> , 2019, 58, 101537.	7.0	180
53	Magnetic resonance imaging evidence for presymptomatic change in thalamus and caudate in familial Alzheimer's disease. <i>Brain</i> , 2013, 136, 1399-1414.	3.7	174
54	The importance of correcting for signal drift in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 285-299.	1.9	174

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55	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
56	A comparison of voxel and surface based cortical thickness estimation methods. <i>NeuroImage</i> , 2011, 57, 856-865.	2.1	163
57	An automated framework for localization, segmentation and super-resolution reconstruction of fetal brain MRI. <i>NeuroImage</i> , 2020, 206, 116324.	2.1	160
58	Brain MAPS: An automated, accurate and robust brain extraction technique using a template library. <i>NeuroImage</i> , 2011, 55, 1091-1108.	2.1	152
59	Patterns of gray matter atrophy in genetic frontotemporal dementia: results from the GENFI study. <i>Neurobiology of Aging</i> , 2018, 62, 191-196.	1.5	151
60	A Survey of Methods for 3D Histology Reconstruction. <i>Medical Image Analysis</i> , 2018, 46, 73-105.	7.0	146
61	Magnetic resonance imaging in Alzheimer's Disease Neuroimaging Initiative 2. <i>Alzheimer's and Dementia</i> , 2015, 11, 740-756.	0.4	142
62	Automatic Brain Tumor Segmentation Based on Cascaded Convolutional Neural Networks With Uncertainty Estimation. <i>Frontiers in Computational Neuroscience</i> , 2019, 13, 56.	1.2	142
63	Benchmarking framework for myocardial tracking and deformation algorithms: An open access database. <i>Medical Image Analysis</i> , 2013, 17, 632-648.	7.0	140
64	Benchmark for Algorithms Segmenting the Left Atrium From 3D CT and MRI Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1460-1473.	5.4	140
65	Predicting Outcomes in Idiopathic Pulmonary Fibrosis Using Automated Computed Tomographic Analysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 767-776.	2.5	140
66	Cerebral atrophy in mild cognitive impairment and Alzheimer disease. <i>Neurology</i> , 2013, 80, 648-654.	1.5	133
67	Diffusion imaging changes in grey matter in Alzheimer's disease: a potential marker of early neurodegeneration. <i>Alzheimer's Research and Therapy</i> , 2015, 7, 47.	3.0	132
68	High-Speed Nonlinear Finite Element Analysis for Surgical Simulation Using Graphics Processing Units. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 650-663.	5.4	131
69	Diet quality and risk and severity of COVID-19: a prospective cohort study. <i>Gut</i> , 2021, 70, 2096-2104.	6.1	130
70	Computation of the mid-sagittal plane in 3-D brain images. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 122-138.	5.4	126
71	Robust atrophy rate measurement in Alzheimer's disease using multi-site serial MRI: Tissue-specific intensity normalization and parameter selection. <i>NeuroImage</i> , 2010, 50, 516-523.	2.1	125
72	Accuracy of intracranial electrode placement for stereoelectroencephalography: A systematic review and meta-analysis. <i>Epilepsia</i> , 2017, 58, 921-932.	2.6	124

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73	Bayesian Model Selection for Pathological Neuroimaging Data Applied to White Matter Lesion Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2079-2102.	5.4	123
74	Carbonâ€Nanotubeâ€PDMS Composite Coatings on Optical Fibers for Allâ€Optical Ultrasound Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 8390-8396.	7.8	120
75	Self-reported COVID-19 vaccine hesitancy and uptake among participants from different racial and ethnic groups in the United States and United Kingdom. <i>Nature Communications</i> , 2022, 13, 636.	5.8	118
76	Symptom clusters in COVID-19: A potential clinical prediction tool from the COVID Symptom Study app. <i>Science Advances</i> , 2021, 7, .	4.7	115
77	Functional Connectivity in Autosomal Dominant and Late-Onset Alzheimer Disease. <i>JAMA Neurology</i> , 2014, 71, 1111.	4.5	112
78	An unbiased longitudinal analysis framework for tracking white matter changes using diffusion tensor imaging with application to Alzheimer's disease. <i>NeuroImage</i> , 2013, 72, 153-163.	2.1	111
79	MIRIADâ€Public release of a multiple time point Alzheimer's MR imaging dataset. <i>NeuroImage</i> , 2013, 70, 33-36.	2.1	111
80	Evaluation of Six Registration Methods for the Human Abdomen on Clinically Acquired CT. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1563-1572.	2.5	111
81	Spinal cord involvement in multiple sclerosis and neuromyelitis optica spectrum disorders. <i>Lancet Neurology</i> , The, 2019, 18, 185-197.	4.9	110
82	On modelling of anisotropic viscoelasticity for soft tissue simulation: Numerical solution and GPU execution. <i>Medical Image Analysis</i> , 2009, 13, 234-244.	7.0	109
83	Association of social distancing and face mask use with risk of COVID-19. <i>Nature Communications</i> , 2021, 12, 3737.	5.8	109
84	Current smoking and COVID-19 risk: results from a population symptom app in over 2.4 million people. <i>Thorax</i> , 2021, 76, 714-722.	2.7	105
85	Profiles of white matter tract pathology in frontotemporal dementia. <i>Human Brain Mapping</i> , 2014, 35, 4163-4179.	1.9	102
86	Volume changes in Alzheimerâ€™s disease and mild cognitive impairment: cognitive associations. <i>European Radiology</i> , 2010, 20, 674-682.	2.3	100
87	Real-time imaging of single neuronal cell apoptosis in patients with glaucoma. <i>Brain</i> , 2017, 140, 1757-1767.	3.7	100
88	Atrophy patterns in Alzheimer's disease and semantic dementia: A comparison of FreeSurfer and manual volumetric measurements. <i>NeuroImage</i> , 2010, 49, 2264-2274.	2.1	97
89	White matter tract signatures of the progressive aphasias. <i>Neurobiology of Aging</i> , 2013, 34, 1687-1699.	1.5	97
90	Spinal cord grey matter segmentation challenge. <i>NeuroImage</i> , 2017, 152, 312-329.	2.1	97

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91	Effect of high-dose simvastatin on cognitive, neuropsychiatric, and health-related quality-of-life measures in secondary progressive multiple sclerosis: secondary analyses from the MS-STAT randomised, placebo-controlled trial. <i>Lancet Neurology</i> , The, 2017, 16, 591-600.	4.9	95
92	Articulated Multi-Instrument 2-D Pose Estimation Using Fully Convolutional Networks. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1276-1287.	5.4	92
93	The estimation of patient-specific cardiac diastolic functions from clinical measurements. <i>Medical Image Analysis</i> , 2013, 17, 133-146.	7.0	91
94	Modest effects of dietary supplements during the COVID-19 pandemic: insights from 445 850 users of the COVID-19 Symptom Study app. <i>BMJ Nutrition, Prevention and Health</i> , 2021, 4, 149-157.	1.9	91
95	A Nonrigid Registration Framework Using Spatially Encoded Mutual Information and Free-Form Deformations. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1819-1828.	5.4	90
96	Through-needle all-optical ultrasound imaging in vivo: a preclinical swine study. <i>Light: Science and Applications</i> , 2017, 6, e17103-e17103.	7.7	90
97	Minimally invasive photoacoustic imaging: Current status and future perspectives. <i>Photoacoustics</i> , 2019, 16, 100146.	4.4	89
98	Automated voxel-based 3D cortical thickness measurement in a combined Lagrangian-Eulerian PDE approach using partial volume maps. <i>Medical Image Analysis</i> , 2009, 13, 730-743.	7.0	88
99	Reduced Cortical Thickness in the Posterior Cingulate Gyrus is Characteristic of Both Typical and Atypical Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 587-598.	1.2	87
100	Cortical microstructure in young onset Alzheimer's disease using neurite orientation dispersion and density imaging. <i>Human Brain Mapping</i> , 2018, 39, 3005-3017.	1.9	87
101	Quantifying additional COVID-19 symptoms will save lives. <i>Lancet</i> , The, 2020, 395, e107-e108.	6.3	87
102	Optic radiation tractography and vision in anterior temporal lobe resection. <i>Annals of Neurology</i> , 2012, 71, 334-341.	2.8	85
103	aMAP is a validated pipeline for registration and segmentation of high-resolution mouse brain data. <i>Nature Communications</i> , 2016, 7, 11879.	5.8	85
104	ToolNet: Holistically-nested real-time segmentation of robotic surgical tools. , 2017, , .		84
105	Somatosensory function and pain in extremely preterm young adults from the UK EPICure cohort: sex-dependent differences and impact of neonatal surgery. <i>British Journal of Anaesthesia</i> , 2018, 121, 623-635.	1.5	84
106	Development of patient-specific biomechanical models for predicting large breast deformation. <i>Physics in Medicine and Biology</i> , 2012, 57, 455-472.	1.6	82
107	PET Reconstruction With an Anatomical MRI Prior Using Parallel Level Sets. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2189-2199.	5.4	82
108	ApoE influences regional white-matter axonal density loss in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2017, 57, 8-17.	1.5	82

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109	Probable delirium is a presenting symptom of COVID-19 in frail, older adults: a cohort study of 322 hospitalised and 535 community-based older adults. <i>Age and Ageing</i> , 2021, 50, 40-48.	0.7	82
110	Appearance modeling of 11C PiB PET images: Characterizing amyloid deposition in Alzheimer's disease, mild cognitive impairment and healthy aging. <i>NeuroImage</i> , 2008, 43, 430-439.	2.1	81
111	LoAd: A locally adaptive cortical segmentation algorithm. <i>NeuroImage</i> , 2011, 56, 1386-1397.	2.1	81
112	The Importance of Group-Wise Registration in Tract Based Spatial Statistics Study of Neurodegeneration: A Simulation Study in Alzheimer's Disease. <i>PLoS ONE</i> , 2012, 7, e45996.	1.1	81
113	Polydimethylsiloxane Composites for Optical Ultrasound Generation and Multimodality Imaging. <i>Advanced Functional Materials</i> , 2018, 28, 1704919.	7.8	81
114	Efficacy of three neuroprotective drugs in secondary progressive multiple sclerosis (MS-SMART): a phase 2b, multiarm, double-blind, randomised placebo-controlled trial. <i>Lancet Neurology</i> , The, 2020, 19, 214-225.	4.9	81
115	Probabilistic disease progression modeling to characterize diagnostic uncertainty: Application to staging and prediction in Alzheimer's disease. <i>NeuroImage</i> , 2019, 190, 56-68.	2.1	80
116	Training recurrent neural networks robust to incomplete data: Application to Alzheimer's disease progression modeling. <i>Medical Image Analysis</i> , 2019, 53, 39-46.	7.0	79
117	In vivo imaging of tau pathology using multi-parametric quantitative MRI. <i>NeuroImage</i> , 2015, 111, 369-378.	2.1	77
118	Practical PET Respiratory Motion Correction in Clinical PET/MR. <i>Journal of Nuclear Medicine</i> , 2015, 56, 890-896.	2.8	76
119	A Comprehensive Cardiac Motion Estimation Framework Using Both Untagged and 3-D Tagged MR Images Based on Nonrigid Registration. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1263-1275.	5.4	74
120	A multi-time-point modality-agnostic patch-based method for lesion filling in multiple sclerosis. <i>NeuroImage</i> , 2016, 139, 376-384.	2.1	74
121	Toward adaptive radiotherapy for head and neck patients: Uncertainties in dose warping due to the choice of deformable registration algorithm. <i>Medical Physics</i> , 2015, 42, 760-769.	1.6	72
122	Detecting COVID-19 infection hotspots in England using large-scale self-reported data from a mobile application: a prospective, observational study. <i>Lancet Public Health</i> , The, 2021, 6, e21-e29.	4.7	72
123	Value of the central vein sign at 3T to differentiate MS from seropositive NMOSD. <i>Neurology</i> , 2018, 90, e1183-e1190.	1.5	71
124	Reduced sample sizes for atrophy outcomes in Alzheimer's disease trials: baseline adjustment. <i>Neurobiology of Aging</i> , 2010, 31, 1452-1462.e2.	1.5	70
125	Association of Piriform Cortex Resection With Surgical Outcomes in Patients With Temporal Lobe Epilepsy. <i>JAMA Neurology</i> , 2019, 76, 690.	4.5	69
126	AdaPT: An adaptive preterm segmentation algorithm for neonatal brain MRI. <i>NeuroImage</i> , 2013, 65, 97-108.	2.1	68

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127	Longitudinal measurement of the developing grey matter in preterm subjects using multi-modal MRI. <i>NeuroImage</i> , 2015, 111, 580-589.	2.1	68
128	Estrogen and COVID-19 symptoms: Associations in women from the COVID Symptom Study. <i>PLoS ONE</i> , 2021, 16, e0257051.	1.1	68
129	Preventing visual field deficits from neurosurgery. <i>Neurology</i> , 2014, 83, 604-611.	1.5	67
130	Artificial intelligence for the real-time classification of intrapapillary capillary loop patterns in the endoscopic diagnosis of early oesophageal squamous cell carcinoma: A proof-of-concept study. <i>United European Gastroenterology Journal</i> , 2019, 7, 297-306.	1.6	67
131	A 30-Year Clinical and Magnetic Resonance Imaging Observational Study of Multiple Sclerosis and Clinically Isolated Syndromes. <i>Annals of Neurology</i> , 2020, 87, 63-74.	2.8	67
132	White matter tract signatures of impaired social cognition in frontotemporal lobar degeneration. <i>NeuroImage: Clinical</i> , 2015, 8, 640-651.	1.4	65
133	Study protocol: Insight 46 – a neuroscience sub-study of the MRC National Survey of Health and Development. <i>BMC Neurology</i> , 2017, 17, 75.	0.8	64
134	Longitudinal neuroanatomical and cognitive progression of posterior cortical atrophy. <i>Brain</i> , 2019, 142, 2082-2095.	3.7	64
135	Assessing atrophy measurement techniques in dementia: Results from the MIRIAD atrophy challenge. <i>NeuroImage</i> , 2015, 123, 149-164.	2.1	63
136	White matter hyperintensities are seen only in GRN mutation carriers in the GENFI cohort. <i>NeuroImage: Clinical</i> , 2017, 15, 171-180.	1.4	63
137	An abnormal periventricular magnetization transfer ratio gradient occurs early in multiple sclerosis. <i>Brain</i> , 2017, 140, 387-398.	3.7	62
138	White matter hyperintensities are associated with disproportionate progressive hippocampal atrophy. <i>Hippocampus</i> , 2017, 27, 249-262.	0.9	62
139	Whole-body MRI quantitative biomarkers are associated significantly with treatment response in patients with newly diagnosed symptomatic multiple myeloma following bortezomib induction. <i>European Radiology</i> , 2017, 27, 5325-5336.	2.3	62
140	Consistent multi-time-point brain atrophy estimation from the boundary shift integral. <i>NeuroImage</i> , 2012, 59, 3995-4005.	2.1	61
141	3-D Pose Estimation of Articulated Instruments in Robotic Minimally Invasive Surgery. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1204-1213.	5.4	61
142	Intraoperative multispectral and hyperspectral label-free imaging: A systematic review of in vivo clinical studies. <i>Journal of Biophotonics</i> , 2019, 12, e201800455.	1.1	61
143	Cancer and Risk of COVID-19 Through a General Community Survey. <i>Oncologist</i> , 2021, 26, e182-e185.	1.9	61
144	Automatic Structural Parcellation of Mouse Brain MRI Using Multi-Atlas Label Fusion. <i>PLoS ONE</i> , 2014, 9, e86576.	1.1	60

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145	Detailed volumetric analysis of the hypothalamus in behavioral variant frontotemporal dementia. <i>Journal of Neurology</i> , 2015, 262, 2635-2642.	1.8	60
146	An artificial intelligence framework for automatic segmentation and volumetry of vestibular schwannomas from contrast-enhanced T1-weighted and high-resolution T2-weighted MRI. <i>Journal of Neurosurgery</i> , 2021, 134, 171-179.	0.9	60
147	Early detection of COVID-19 in the UK using self-reported symptoms: a large-scale, prospective, epidemiological surveillance study. <i>The Lancet Digital Health</i> , 2021, 3, e587-e598.	5.9	60
148	Automated hippocampal segmentation in patients with epilepsy: Available free online. <i>Epilepsia</i> , 2013, 54, 2166-2173.	2.6	59
149	Separating fetal and maternal placenta circulations using multiparametric MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 350-361.	1.9	59
150	Estimates of the rate of infection and asymptomatic COVID-19 disease in a population sample from SE England. <i>Journal of Infection</i> , 2020, 81, 931-936.	1.7	59
151	NiftySim: A GPU-based nonlinear finite element package for simulation of soft tissue biomechanics. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1077-1095.	1.7	58
152	Presymptomatic cortical thinning in familial Alzheimer disease. <i>Neurology</i> , 2016, 87, 2050-2057.	1.5	58
153	Magnetic resonance virtual histology for embryos: 3D atlases for automated high-throughput phenotyping. <i>NeuroImage</i> , 2011, 54, 769-778.	2.1	57
154	GIFT-Cloud: A data sharing and collaboration platform for medical imaging research. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 139, 181-190.	2.6	57
155	Slic-Seg: A minimally interactive segmentation of the placenta from sparse and motion-corrupted fetal MRI in multiple views. <i>Medical Image Analysis</i> , 2016, 34, 137-147.	7.0	56
156	Robot-assisted stereotactic brain biopsy: systematic review and bibliometric analysis. <i>Child's Nervous System</i> , 2018, 34, 1299-1309.	0.6	56
157	Genetic study of multimodal imaging Alzheimer's disease progression score implicates novel loci. <i>Brain</i> , 2018, 141, 2167-2180.	3.7	56
158	Machine learning classifiers can predict Gleason pattern 4 prostate cancer with greater accuracy than experienced radiologists. <i>European Radiology</i> , 2019, 29, 4754-4764.	2.3	55
159	Comparison of phantom and registration scaling corrections using the ADNI cohort. <i>NeuroImage</i> , 2009, 47, 1506-1513.	2.1	54
160	Multi-atlas Propagation Whole Heart Segmentation from MRI and CTA Using a Local Normalised Correlation Coefficient Criterion. <i>Lecture Notes in Computer Science</i> , 2013, , 174-181.	1.0	54
161	Patterns of regional cerebellar atrophy in genetic frontotemporal dementia. <i>NeuroImage: Clinical</i> , 2016, 11, 287-290.	1.4	54
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