

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	CARRNN: A Continuous Autoregressive Recurrent Neural Network for Deep Representation Learning From Sporadic Temporal Data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 792-802.	7.2	2
2	Neuroprotection is improved by watertightness of fetal spina bifida repair in the sheep model. <i>Ultrasound in Obstetrics and Gynecology</i> , 2023, 61, 81-92.	0.9	8
3	Deep learning to automate the labelling of head MRI datasets for computer vision applications. <i>European Radiology</i> , 2022, 32, 725-736.	2.3	22
4	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
5	Individual Factors Including Age, BMI, and Heritable Factors Underlie Temperature Variation in Sickness and in Health: An Observational, Multi-cohort Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1890-1897.	1.7	2
6	A data-driven disease progression model of fluid biomarkers in genetic frontotemporal dementia. <i>Brain</i> , 2022, 145, 1805-1817.	3.7	27
7	Stratifying the Presymptomatic Phase of Genetic Frontotemporal Dementia by Serum τ and pNfH: A Longitudinal Multicentre Study. <i>Annals of Neurology</i> , 2022, 91, 33-47.	2.8	21
8	Deep learning approach for hyperspectral image demosaicking, spectral correction and high-resolution RGB reconstruction. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2022, 10, 409-417.	1.3	9
9	Video-rate dual-modal photoacoustic and fluorescence imaging through a multimode fibre towards forward-viewing endomicroscopy. <i>Photoacoustics</i> , 2022, 25, 100323.	4.4	10
10	Cognitive composites for genetic frontotemporal dementia: GENFI-Cog. <i>Alzheimer's Research and Therapy</i> , 2022, 14, 10.	3.0	4
11	Imaging Biomarkers of Glioblastoma Treatment Response: A Systematic Review and Meta-Analysis of Recent Machine Learning Studies. <i>Frontiers in Oncology</i> , 2022, 12, 799662.	1.3	14
12	Optical properties of human brain and tumour tissue: An ex vivo study spanning the visible range to beyond the second near-infrared window. <i>Journal of Biophotonics</i> , 2022, 15, .	1.1	14
13	Predicting Visual Fields From Optical Coherence Tomography via an Ensemble of Deep Representation Learners. <i>American Journal of Ophthalmology</i> , 2022, 238, 52-65.	1.7	12
14	Knowledge barriers in a national symptomatic-COVID-19 testing programme. <i>PLOS Global Public Health</i> , 2022, 2, e0000028.	0.5	11
15	Fetoscopic insufflation of heated-humidified carbon dioxide during simulated spina bifida repair is safe under controlled anesthesia in the fetal lamb. <i>Prenatal Diagnosis</i> , 2022, 42, 180-191.	1.1	2
16	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
17	Deep Learning for Instrumented Ultrasonic Tracking: From Synthetic Training Data to <i>In Vivo</i> Application. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 543-552.	1.7	7
18	Ultrasonic Needle Tracking with Dynamic Electronic Focusing. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 520-529.	0.7	7

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19	Accurate brain age models for routine clinical MRI examinations. <i>NeuroImage</i> , 2022, 249, 118871.	2.1	37
20	Intraoperative overlay of optic radiation tractography during anteromesial temporal resection: a prospective validation study. <i>Journal of Neurosurgery</i> , 2022, 136, 543-552.	0.9	4
21	Examining empathy deficits across familial forms of frontotemporal dementia within the GENFI cohort. <i>Cortex</i> , 2022, 150, 12-28.	1.1	2
22	Deep learning models for triaging hospital head MRI examinations. <i>Medical Image Analysis</i> , 2022, 78, 102391.	7.0	10
23	Conceptual framework for the definition of preclinical and prodromal frontotemporal dementia. <i>Alzheimer's and Dementia</i> , 2022, 18, 1408-1423.	0.4	24
24	OxVent: Design and evaluation of a rapidly-manufactured Covid-19 ventilator. <i>EBioMedicine</i> , 2022, 76, 103868.	2.7	3
25	Structural brain splitting is a hallmark of Granulin-related frontotemporal dementia. <i>Neurobiology of Aging</i> , 2022, , .	1.5	1
26	Advanced quantitative evaluation of PET systems using the ACR phantom and NiftyPET software. <i>Medical Physics</i> , 2022, , .	1.6	2
27	The <sc>CBI</sc> detects early behavioural impairment in genetic frontotemporal dementia. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 644-658.	1.7	1
28	Automated Koos Classification of Vestibular Schwannoma. <i>Frontiers in Radiology</i> , 2022, 2, .	1.2	4
29	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
30	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
31	Surgical biomicroscopy-guided intra-operative optical coherence tomography (iOCT) image super-resolution. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022, 17, 877-883.	1.7	3
32	App-based COVID-19 syndromic surveillance and prediction of hospital admissions in COVID Symptom Study Sweden. <i>Nature Communications</i> , 2022, 13, 2110.	5.8	17
33	From Accuracy to Reliability and Robustness in Cardiac Magnetic Resonance Image Segmentation: A Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3936.	1.3	11
34	Motion correction and volumetric reconstruction for fetal functional magnetic resonance imaging data. <i>NeuroImage</i> , 2022, 255, 119213.	2.1	7
35	Distinct clinical symptom patterns in patients hospitalised with COVID-19 in an analysis of 59,011 patients in the ISARIC-4C study. <i>Scientific Reports</i> , 2022, 12, 6843.	1.6	12
36	Illness Characteristics of COVID-19 in Children Infected with the SARS-CoV-2 Delta Variant. <i>Children</i> , 2022, 9, 652.	0.6	28

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37	Probabilistic landscape of seizure semiology localizing values. Brain Communications, 2022, 4, .	1.5	7
38	012â€¦ Structural connectivity informed stereoelectroencephalography (SEEG) electrode targeting in suspected pseudotemporal and temporal plus epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, A104.3-A104.	0.9	0
39	Risk of long COVID associated with delta versus omicron variants of SARS-CoV-2. Lancet, The, 2022, 399, 2263-2264.	6.3	327
40	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	5.8	252
41	Magnetic resonance imaging measurement of placental perfusion and oxygen saturation in earlyâ€œonset fetal growth restriction. BJOG: an International Journal of Obstetrics and Gynaecology, 2021, 128, 337-345.	1.1	26
42	Clinical evaluation of automated quantitative MRI reports for assessment of hippocampal sclerosis. European Radiology, 2021, 31, 34-44.	2.3	11
43	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. Age and Ageing, 2021, 50, 40-48.	0.7	82
44	Cancer and Risk of COVID-19 Through a General Community Survey. Oncologist, 2021, 26, e182-e185.	1.9	61
45	Robust parametric modeling of Alzheimerâ€™s disease progression. NeuroImage, 2021, 225, 117460.	2.1	11
46	OCT Signal Enhancement with Deep Learning. Ophthalmology Glaucoma, 2021, 4, 295-304.	0.9	11
47	Improving statistical power of glaucoma clinical trials using an ensemble of cyclical generative adversarial networks. Medical Image Analysis, 2021, 68, 101906.	7.0	11
48	Dimensionless squared jerk: An objective differential to assess experienced and novice probe movement in obstetric ultrasound. Prenatal Diagnosis, 2021, 41, 271-277.	1.1	10
49	A generative model of hyperelastic strain energy density functions for multiple tissue brain deformation. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 141-150.	1.7	2
50	Learning joint segmentation of tissues and brain lesions from task-specific hetero-modal domain-shifted datasets. Medical Image Analysis, 2021, 67, 101862.	7.0	16
51	Cranial findings detected by secondâ€œtrimester ultrasound in fetuses with myelomeningocele: a systematic review. BJOG: an International Journal of Obstetrics and Gynaecology, 2021, 128, 366-374.	1.1	15
52	An artificial intelligence framework for automatic segmentation and volumetry of vestibular schwannomas from contrast-enhanced T1-weighted and high-resolution T2-weighted MRI. Journal of Neurosurgery, 2021, 134, 171-179.	0.9	60
53	Impairment of episodic memory in genetic frontotemporal dementia: A GENFI study. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12185.	1.2	11
54	Current smoking and COVID-19 risk: results from a population symptom app in over 2.4 million people. Thorax, 2021, 76, 714-722.	2.7	105

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55	Automated quantitative MRI volumetry reports support diagnostic interpretation in dementia: a multi-rater, clinical accuracy study. <i>European Radiology</i> , 2021, 31, 5312-5323.	2.3	19
56	Progression of Behavioral Disturbances and Neuropsychiatric Symptoms in Patients With Genetic Frontotemporal Dementia. <i>JAMA Network Open</i> , 2021, 4, e2030194.	2.8	42
57	Transfer Learning of Deep Spatiotemporal Networks to Model Arbitrarily Long Videos of Seizures. <i>Lecture Notes in Computer Science</i> , 2021, , 334-344.	1.0	6
58	Myelination of Preterm Brain Networks at Adolescence. <i>Lecture Notes in Computer Science</i> , 2021, , 179-188.	1.0	0
59	A Position Statement on the Utility of Interval Imaging in Standard of Care Brain Tumour Management: Defining the Evidence Gap and Opportunities for Future Research. <i>Frontiers in Oncology</i> , 2021, 11, 620070.	1.3	13
60	A Multi-Channel Uncertainty-Aware Multi-Resolution Network for MR to CT Synthesis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1667.	1.3	7
61	Machine Learning for Localizing Epileptogenic-Zone in the Temporal Lobe: Quantifying the Value of Multimodal Clinical-Semiology and Imaging Concordance. <i>Frontiers in Digital Health</i> , 2021, 3, 559103.	1.5	9
62	Optimal symptom combinations to aid COVID-19 case identification: Analysis from a community-based, prospective, observational cohort. <i>Journal of Infection</i> , 2021, 82, 384-390.	1.7	21
63	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
64	Middle Frontal Gyrus and Area 55b: Perioperative Mapping and Language Outcomes. <i>Frontiers in Neurology</i> , 2021, 12, 646075.	1.1	24
65	High-speed photoacoustic-guided wavefront shaping for focusing light in scattering media. <i>Optics Letters</i> , 2021, 46, 1165.	1.7	16
66	A population-based study of head injury, cognitive function and pathological markers. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 842-856.	1.7	5
67	Patient-specific prediction of SEEG electrode bending for stereotactic neurosurgical planning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 789-798.	1.7	4
68	Surgeon Knowledge of the Pulmonary Arterial System and Surgical Plan Confidence Is Improved by Interactive Virtual 3D-CT Models of Lung Cancer Patient Anatomies. <i>Frontiers in Surgery</i> , 2021, 8, 652428.	0.6	5
69	Diagnostic value of cutaneous manifestation of SARS-CoV-2 infection*. <i>British Journal of Dermatology</i> , 2021, 184, 880-887.	1.4	45
70	144 Probable Delirium is A Presenting Symptom of COVID-19 in Frail, Older Adults: A Study of Hospitalised and Community-Based Cohorts. <i>Age and Ageing</i> , 2021, 50, i12-i42.	0.7	0
71	Symptoms and syndromes associated with SARS-CoV-2 infection and severity in pregnant women from two community cohorts. <i>Scientific Reports</i> , 2021, 11, 6928.	1.6	22
72	Attributes and predictors of long COVID. <i>Nature Medicine</i> , 2021, 27, 626-631.	15.2	1,613

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73	Focusing light through multimode fibres using a digital micromirror device: a comparison study of non-holographic approaches. <i>Optics Express</i> , 2021, 29, 14269.	1.7	11
74	Incidence and patterns of abnormal corpus callosum in fetuses with isolated spina bifida aperta. <i>Prenatal Diagnosis</i> , 2021, 41, 957-964.	1.1	12
75	Anomaly detection for the individual analysis of brain PET images. <i>Journal of Medical Imaging</i> , 2021, 8, 024003.	0.8	6
76	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
77	Uncertainty analysis of MR-PET image registration for precision neuro-PET imaging. <i>NeuroImage</i> , 2021, 232, 117821.	2.1	8
78	Intraoperative hyperspectral label-free imaging: from system design to first-in-patient translation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 294003.	1.3	15
79	Hemodynamic matrix factorization for functional magnetic resonance imaging. <i>NeuroImage</i> , 2021, 231, 117814.	2.1	4
80	Integrated multi-modality image-guided navigation for neurosurgery: open-source software platform using state-of-the-art clinical hardware. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1347-1356.	1.7	4
81	Image Compositing for Segmentation of Surgical Tools Without Manual Annotations. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1450-1460.	5.4	20
82	Structure-function relationships in the fetoplacental circulation from in silico interpretation of micro-CT vascular structures. <i>Journal of Theoretical Biology</i> , 2021, 517, 110630.	0.8	14
83	Cortical spectral matching and shape and volume analysis of the fetal brain pre- and post-fetal surgery for spina bifida: a retrospective study. <i>Neuroradiology</i> , 2021, 63, 1721-1734.	1.1	12
84	Neuropsychiatric disease classification using functional connectomics - results of the connectomics in neuroimaging transfer learning challenge. <i>Medical Image Analysis</i> , 2021, 70, 101972.	7.0	17
85	Artificial Intelligence Opportunities for Vestibular Schwannoma Management Using Image Segmentation and Clinical Decision Tools. <i>World Neurosurgery</i> , 2021, 149, 269-270.	0.7	9
86	Changes in symptomatology, reinfection, and transmissibility associated with the SARS-CoV-2 variant B.1.1.7: an ecological study. <i>Lancet Public Health</i> , The, 2021, 6, e335-e345.	4.7	269
87	Association of social distancing and face mask use with risk of COVID-19. <i>Nature Communications</i> , 2021, 12, 3737.	5.8	109
88	A self-supervised learning strategy for postoperative brain cavity segmentation simulating resections. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1653-1661.	1.7	5
89	Occipitocervical instrumented fixation utilising patient-specific C2 3D-printed spinal screw trajectory guides in complex paediatric skeletal dysplasia. <i>Child's Nervous System</i> , 2021, 37, 2643-2650.	0.6	2
90	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

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91	The Revised Self-Monitoring Scale detects early impairment of social cognition in genetic frontotemporal dementia within the GENFI cohort. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 127.	3.0	12
92	Artificial Intelligence Compared to Radiologists for the Initial Diagnosis of Prostate Cancer on Magnetic Resonance Imaging: A Systematic Review and Recommendations for Future Studies. <i>Cancers</i> , 2021, 13, 3318.	1.7	32
93	Imitation learning for improved 3D PET/MR attenuation correction. <i>Medical Image Analysis</i> , 2021, 71, 102079.	7.0	9
94	Comparison of robotic and manual implantation of intracerebral electrodes: a single-centre, single-blinded, randomised controlled trial. <i>Scientific Reports</i> , 2021, 11, 17127.	1.6	19
95	Enhancing the estimation of fiber orientation distributions using convolutional neural networks. <i>Computers in Biology and Medicine</i> , 2021, 135, 104643.	3.9	10
96	A clinically interpretable convolutional neural network for the real-time prediction of early squamous cell cancer of the esophagus: comparing diagnostic performance with a panel of expert European and Asian endoscopists. <i>Gastrointestinal Endoscopy</i> , 2021, 94, 273-281.	0.5	11
97	Resection of the piriform cortex for temporal lobe epilepsy: a Novel approach on imaging segmentation and surgical application. <i>British Journal of Neurosurgery</i> , 2021, , 1-6.	0.4	6
98	White matter analysis of the extremely preterm born adult brain. <i>NeuroImage</i> , 2021, 237, 118112.	2.1	9
99	MIDeepSeg: Minimally interactive segmentation of unseen objects from medical images using deep learning. <i>Medical Image Analysis</i> , 2021, 72, 102102.	7.0	48
100	Race, ethnicity, community-level socioeconomic factors, and risk of COVID-19 in the United States and the United Kingdom. <i>EClinicalMedicine</i> , 2021, 38, 101029.	3.2	48
101	Anxiety and depression symptoms after COVID-19 infection: results from the COVID Symptom Study app. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 1254-1258.	0.9	44
102	TorchIO: A Python library for efficient loading, preprocessing, augmentation and patch-based sampling of medical images in deep learning. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106236.	2.6	257
103	Diet quality and risk and severity of COVID-19: a prospective cohort study. <i>Gut</i> , 2021, 70, 2096-2104.	6.1	130
104	Estrogen and COVID-19 symptoms: Associations in women from the COVID Symptom Study. <i>PLoS ONE</i> , 2021, 16, e0257051.	1.1	68
105	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
106	Anosmia, ageusia, and other COVID-19-like symptoms in association with a positive SARS-CoV-2 test, across six national digital surveillance platforms: an observational study. <i>The Lancet Digital Health</i> , 2021, 3, e577-e586.	5.9	51
107	Computer-aided diagnosis of prostate cancer using multiparametric MRI and clinical features: A patient-level classification framework. <i>Medical Image Analysis</i> , 2021, 73, 102153.	7.0	19
108	Illness duration and symptom profile in symptomatic UK school-aged children tested for SARS-CoV-2. <i>The Lancet Child and Adolescent Health</i> , 2021, 5, 708-718.	2.7	304

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109	Differential early subcortical involvement in genetic FTD within the GENFI cohort. <i>NeuroImage: Clinical</i> , 2021, 30, 102646.	1.4	28
110	Preclinical stem cell therapy in fetuses with myelomeningocele: A systematic review and meta-analysis. <i>Prenatal Diagnosis</i> , 2021, 41, 283-300.	1.1	10
111	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
112	Geo-social gradients in predicted COVID-19 prevalence in Great Britain: results from 1 960 242 users of the COVID-19 Symptoms Study app. <i>Thorax</i> , 2021, 76, 723-725.	2.7	12
113	Super-resolution Reconstruction MRI Application in Fetal Neck Masses and Congenital High Airway Obstruction Syndrome. <i>OTO Open</i> , 2021, 5, 2473974X211055372.	0.6	7
114	Reclassifying stroke lesion anatomy. <i>Cortex</i> , 2021, 145, 1-12.	1.1	16
115	Segmentation of vestibular schwannoma from MRI, an open annotated dataset and baseline algorithm. <i>Scientific Data</i> , 2021, 8, 286.	2.4	35
116	The impact of unscheduled gaps and iso-centre sequencing on the biologically effective dose in Gamma Knife radiosurgery. <i>Journal of Radiosurgery and SBRT</i> , 2021, 7, 213-221.	0.2	2
117	Towards ultrathin fiber-optic probe for simultaneous photoacoustic and fluorescence endoscopy. , 2021, , .		0
118	Volumetric MRI is a promising outcome measure of muscle reinnervation. <i>Scientific Reports</i> , 2021, 11, 22433.	1.6	3
119	A panel of CSF proteins separates genetic frontotemporal dementia from presymptomatic mutation carriers: a GENFI study. <i>Molecular Neurodegeneration</i> , 2021, 16, 79.	4.4	9
120	Accessible data curation and analytics for international-scale citizen science datasets. <i>Scientific Data</i> , 2021, 8, 297.	2.4	18
121	Correction to: Transfer Learning of Deep Spatiotemporal Networks to Model Arbitrarily Long Videos of Seizures. <i>Lecture Notes in Computer Science</i> , 2021, , C1-C1.	1.0	1
122	Homography-based Visual Servoing with Remote Center of Motion for Semi-autonomous Robotic Endoscope Manipulation. , 2021, , .		4
123	AutoProstate: Towards Automated Reporting of Prostate MRI for Prostate Cancer Assessment Using Deep Learning. <i>Cancers</i> , 2021, 13, 6138.	1.7	10
124	Diet and lifestyle behaviour disruption related to the pandemic was varied and bidirectional among US and UK adults participating in the ZOE COVID Study. <i>Nature Food</i> , 2021, 2, 957-969.	6.2	18
125	Disentangling post-vaccination symptoms from early COVID-19. <i>EClinicalMedicine</i> , 2021, 42, 101212.	3.2	8
126	Clinical relevance of cortical network dynamics in early primary progressive MS. <i>Multiple Sclerosis Journal</i> , 2020, 26, 442-456.	1.4	14

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127	A multi-shell multi-tissue diffusion study of brain connectivity in early multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 774-785.	1.4	13
128	Periventricular magnetisation transfer ratio abnormalities in multiple sclerosis improve after alemtuzumab. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1093-1101.	1.4	6
129	Single-subject structural cortical networks in clinically isolated syndrome. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1392-1401.	1.4	10
130	Automated postoperative muscle assessment of hip arthroplasty patients using multimodal imaging joint segmentation. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 183, 105062.	2.6	4
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	An automated framework for localization, segmentation and super-resolution reconstruction of fetal brain MRI. <i>NeuroImage</i> , 2020, 206, 116324.	2.1	160
133	Photoacoustic imaging of the human placental vasculature. <i>Journal of Biophotonics</i> , 2020, 13, e201900167.	1.1	36
134	Generalised boundary shift integral for longitudinal assessment of spinal cord atrophy. <i>NeuroImage</i> , 2020, 209, 116489.	2.1	15
135	Refractive Two-View Reconstruction for Underwater 3D Vision. <i>International Journal of Computer Vision</i> , 2020, 128, 1101-1117.	10.9	36
136	Neurosense: deep sensing of full or near-full coverage head/brain scans in human magnetic resonance imaging. <i>Neuroinformatics</i> , 2020, 18, 333-336.	1.5	0
137	Improved fetal blood oxygenation and placental estimated measurements of diffusion-weighted MRI using data-driven Bayesian modeling. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2160-2172.	1.9	15
138	PET/MRI attenuation estimation in the lung: A review of past, present, and potential techniques. <i>Medical Physics</i> , 2020, 47, 790-811.	1.6	19
139	Hippocampal profiling: Localized magnetic resonance imaging volumetry and T2 relaxometry for hippocampal sclerosis. <i>Epilepsia</i> , 2020, 61, 297-309.	2.6	26
140	Longitudinal (¹⁸ F)AV-1451 PET imaging in a patient with frontotemporal dementia due to a Q351R MAPT mutation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 106-108.	0.9	8
141	Putaminal diffusion tensor imaging measures predict disease severity across human prion diseases. <i>Brain Communications</i> , 2020, 2, fcaa032.	1.5	1
142	Sodium in the Relapsing-Remitting Multiple Sclerosis Spinal Cord: Increased Concentrations and Associations With Microstructural Tissue Anisotropy. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1429-1438.	1.9	8
143	Widespread smell testing for COVID-19 has limited application – Authors' reply. <i>Lancet, The</i> , 2020, 396, 1630-1631.	6.3	4
144	Manual segmentation versus semi-automated segmentation for quantifying vestibular schwannoma volume on MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1445-1455.	1.7	25

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145	Refining Planning for Stereoelectroencephalography: A Prospective Validation of Spatial Priors for Computer-Assisted Planning With Application of Dynamic Learning. <i>Frontiers in Neurology</i> , 2020, 11, 706.	1.1	4
146	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
147	Measuring cortical mean diffusivity to assess early microstructural cortical change in presymptomatic familial Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 112.	3.0	18
148	Pathologic correlates of the magnetization transfer ratio in multiple sclerosis. <i>Neurology</i> , 2020, 95, e2965-e2976.	1.5	28
149	Deep learning-based fetoscopic mosaicking for field-of-view expansion. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1807-1816.	1.7	20
150	Comparison of manual and semi-automatic registration in augmented reality image-guided liver surgery: a clinical feasibility study. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2020, 34, 4702-4711.	1.3	29
151	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
152	Substantially thinner internal granular layer and reduced molecular layer surface in the cerebellar cortex of the Tc1 mouse model of down syndrome – a comprehensive morphometric analysis with active staining contrast-enhanced MRI. <i>NeuroImage</i> , 2020, 223, 117271.	2.1	7
153	Disease progression modeling-based prediction of cognitive decline. <i>Alzheimer's and Dementia</i> , 2020, 16, e043850.	0.4	0
154	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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650	A three-dimensional, histological and deformable atlas of the human basal ganglia. I. Atlas construction based on immunohistochemical and MRI data. <i>NeuroImage</i> , 2007, 34, 618-638.	2.1	288
651	Segmentation of the Bones in MRIs of the Knee Using Phase, Magnitude, and Shape Information. <i>Academic Radiology</i> , 2007, 14, 1201-1208.	1.3	17
652	MR image segmentation of the knee bone using phase information. <i>Medical Image Analysis</i> , 2007, 11, 325-335.	7.0	38
653	Real-Time Nonlinear Finite Element Analysis for Surgical Simulation Using Graphics Processing Units. , 2007, 10, 701-708.		23
654	Multiple contact approach to collision modelling in surgical simulation. <i>Studies in Health Technology and Informatics</i> , 2005, 111, 237-42.	0.2	0
655	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
656	Reconstructing a 3D structure from serial histological sections. <i>Image and Vision Computing</i> , 2001, 19, 25-31.	2.7	482
657	Clinical experience of using virtual 3D modelling for pre and intraoperative guidance during robotic-assisted partial nephrectomy. <i>Journal of Clinical Urology</i> , 0, , 205141582110002.	0.1	0
658	Real-time tracking of self-reported symptoms to predict potential COVID-19. , 0, .		1
659	Deep homography estimation in dynamic surgical scenes for laparoscopic camera motion extraction. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 0, , 1-9.	1.3	4