Richard Beare

List of Publications by Year
in descending order

144 papers	4,430 citations	117571 34 h-index	133188 59 g-index
152 all docs	152 docs citations	152 times ranked	6992 citing authors

#	Article	IF	Citations
1	Brain Atrophy in Type 2 Diabetes. Diabetes Care, 2013, 36, 4036-4042.	4.3	415
2	SimpleITK Image-Analysis Notebooks: a Collaborative Environment for Education and Reproducible Research. Journal of Digital Imaging, 2018, 31, 290-303.	1.6	263
3	Type 2 diabetes mellitus and biomarkers of neurodegeneration. Neurology, 2015, 85, 1123-1130.	1.5	222
4	Cerebral White Matter Lesions, Gait, and the Risk of Incident Falls. Stroke, 2009, 40, 175-180.	1.0	201
5	Brain Structural Change and Gait Decline: A Longitudinal Populationâ€Based Study. Journal of the American Geriatrics Society, 2013, 61, 1074-1079.	1.3	134
6	Image Segmentation, Registration and Characterization in R with SimpleITK. Journal of Statistical Software, 2018, 86, .	1.8	123
7	Type 2 diabetes mellitus, brain atrophy, and cognitive decline. Neurology, 2019, 92, e823-e830.	1.5	112
8	Neurite density index is sensitive to age related differences in the developing brain. NeuroImage, 2017, 148, 373-380.	2.1	101
9	Type 2 diabetes mellitus, brain atrophy and cognitive decline in older people: a longitudinal study. Diabetologia, 2019, 62, 448-458.	2.9	94
10	Susceptibility weighted imaging and its relationship to outcome after pediatric traumatic brain injury. Cortex, 2013, 49, 591-598.	1.1	89
11	Segmentation of the mouse hippocampal formation in magnetic resonance images. NeuroImage, 2011, 58, 732-740.	2.1	88
12	The location of white matter lesions and gaitâ€"A voxelâ€based study. Annals of Neurology, 2010, 67, 265-269.	2.8	87
13	The Relationship between Age, Injury Severity, and MRI Findings after Traumatic Brain Injury. Journal of Neurotrauma, 2009, 26, 2157-2167.	1.7	81
14	Methylglyoxal, Cognitive Function and Cerebral Atrophy in Older People. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 68-73.	1.7	78
15	A new neonatal cortical and subcortical brain atlas: the Melbourne Children's Regional Infant Brain (M-CRIB) atlas. NeuroImage, 2017, 147, 841-851.	2.1	74
16	Silent Infarcts and Cerebral Microbleeds Modify the Associations of White Matter Lesions With Gait and Postural Stability. Stroke, 2012, 43, 1505-1510.	1.0	71
17	Type 2 Diabetes, Skin Autofluorescence, and Brain Atrophy. Diabetes, 2015, 64, 279-283.	0.3	71
18	Brain Volumes at Term-Equivalent Age Are Associated with 2-Year Neurodevelopment in Moderate and Late Preterm Children. Journal of Pediatrics, 2016, 174, 91-97.e1.	0.9	70

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19	Altered structural connectivity in ADHD: a network based analysis. Brain Imaging and Behavior, 2017, 11, 846-858.	1.1	70
20	Elevated Blood Pressure with Reduced Left Ventricular and Aortic Dimensions in Adolescents Born Extremely Preterm. Journal of Pediatrics, 2016, 172, 75-80.e2.	0.9	66
21	Measuring the distance of vegetation from powerlines using stereo vision. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 60, 269-283.	4.9	58
22	Structural connectivity relates to perinatal factors and functional impairment at 7 years in children born very preterm. NeuroImage, 2016, 134, 328-337.	2.1	58
23	Early life predictors of brain development at term-equivalent age in infants born across the gestational age spectrum. NeuroImage, 2019, 185, 813-824.	2.1	58
24	A locally constrained watershed transform. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1063-1074.	9.7	56
25	Global and Regional Associations of Smaller Cerebral Gray and White Matter Volumes with Gait in Older People. PLoS ONE, 2014, 9, e84909.	1.1	51
26	The emergence of ageâ€dependent social cognitive deficits after generalized insult to the developing brain: A longitudinal prospective analysis using susceptibilityâ€weighted imaging. Human Brain Mapping, 2015, 36, 1677-1691.	1.9	49
27	Changes in neonatal regional brain volume associated with preterm birth and perinatal factors. NeuroImage, 2019, 185, 654-663.	2.1	45
28	Progression of White Matter Hyperintensities of Presumed Vascular Origin Increases the Risk of Falls in Older People. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 360-366.	1.7	44
29	Mosaicing of microscope images with global geometric and radiometric corrections. Journal of Microscopy, 2006, 224, 158-165.	0.8	41
30	Development and validation of morphological segmentation of age-related cerebral white matter hyperintensities. NeuroImage, 2009, 47, 199-203.	2.1	41
31	Cortical morphometry in attention deficit/hyperactivity disorder: Contribution of thickness and surface area to volume. Cortex, 2016, 82, 1-10.	1.1	41
32	Neuroimaging and its Relevance to Understanding Pathways Linking Diabetes and Cognitive Dysfunction. Journal of Alzheimer's Disease, 2017, 59, 405-419.	1.2	41
33	Googling Service Boundaries for Endovascular Clot Retrieval Hub Hospitals in a Metropolitan Setting. Stroke, 2017, 48, 1353-1361.	1.0	40
34	Relationships between acute imaging biomarkers and theory of mind impairment in post-acute pediatric traumatic brain injury: A prospective analysis using susceptibility weighted imaging (SWI). Neuropsychologia, 2015, 66, 32-38.	0.7	39
35	Frailty and Cerebral Small Vessel Disease: A Cross-Sectional Analysis of the Tasmanian Study of Cognition and Gait (TASCOG). Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 255-260.	1.7	37
36	Brain extraction using the watershed transform from markers. Frontiers in Neuroinformatics, 2013, 7, 32.	1.3	36

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37	Marker-based watershed transform method for fully automatic mandibular segmentation from CBCT images. Dentomaxillofacial Radiology, 2019, 48, 20180261.	1.3	36
38	Characterisation of brain volume and microstructure at term-equivalent age in infants born across the gestational age spectrum. NeuroImage: Clinical, 2019, 21, 101630.	1.4	35
39	Uncovering the neuroanatomical correlates of cognitive, affective and conative theory of mind in paediatric traumatic brain injury: a neural systems perspective. Social Cognitive and Affective Neuroscience, 2017, 12, 1414-1427.	1.5	34
40	Theory of mind mediates the prospective relationship between abnormal social brain network morphology and chronic behavior problems after pediatric traumatic brain injury. Social Cognitive and Affective Neuroscience, 2016, 11, 683-692.	1.5	33
41	A network analysis approach to ADHD symptoms: More than the sum of its parts. PLoS ONE, 2019, 14, e0211053.	1.1	32
42	Predictors of longitudinal outcome and recovery of pragmatic language and its relation to externalizing behaviour after pediatric traumatic brain injury. Brain and Language, 2015, 142, 86-95.	0.8	31
43	Brain Activation during Memory Encoding in Type 2 Diabetes Mellitus: A Discordant Twin Pair Study. Journal of Diabetes Research, 2016, 2016, 1-10.	1.0	31
44	Parcellation of the neonatal cortex using Surface-based Melbourne Childrenâ€™s Regional Infant Brain atlases (M-CRIB-S). Scientific Reports, 2020, 10, 4359.	1.6	31
45	Individual variation underlying brain age estimates in typical development. NeuroImage, 2021, 235, 118036.	2.1	30
46	White Matter Lesion Progression. Stroke, 2015, 46, 3048-3057.	1.0	27
47	Charting shared developmental trajectories of cortical thickness and structural connectivity in childhood and adolescence. Human Brain Mapping, 2019, 40, 4630-4644.	1.9	27
48	Experimental and numerical study on the hemodynamics of stenosed carotid bifurcation. Australasian Physical and Engineering Sciences in Medicine, 2010, 33, 319-328.	1.4	26
49	Software Pipeline for Midsagittal Corpus Callosum Thickness Profile Processing. Neuroinformatics, 2014, 12, 595-614.	1.5	25
50	Desikan-Killiany-Tourville Atlas Compatible Version of M-CRIB Neonatal Parcellated Whole Brain Atlas: The M-CRIB 2.0. Frontiers in Neuroscience, 2019, 13, 34.	1.4	25
51	Long-term development of white matter fibre density and morphology up to 13 years after preterm birth: A fixel-based analysis. NeuroImage, 2020, 220, 117068.	2.1	25
52	Abdominal Obesity and Brain Atrophy in Type 2 Diabetes Mellitus. PLoS ONE, 2015, 10, e0142589.	1.1	25
53	Modelling neuroanatomical variation during childhood and adolescence with neighbourhood-preserving embedding. Scientific Reports, 2017, 7, 17796.	1.6	24
54	Aortic reservoir characteristics and brain structure in people with type 2 diabetes mellitus; a cross sectional study. Cardiovascular Diabetology, 2014, 13, 143.	2.7	23

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55	A systematic evaluation of intraoperative white matter tract shift in pediatric epilepsy surgery using high-field MRI and probabilistic high angular resolution diffusion imaging tractography. Journal of Neurosurgery: Pediatrics, 2017, 19, 592-605.	0.8	22
56	The relationship between mood disorders and MRI findings following traumatic brain injury. Brain Injury, 2011, 25, 543-550.	0.6	21
57	An acoustic study of nasal consonants in three Central Australian languages. Journal of the Acoustical Society of America, 2016, 139, 890-903.	0.5	21
58	Interactions Between Age, Sex, Menopause, and Brain Structure at Midlife: A UK Biobank Study. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 410-420.	1.8	21
59	White Matter Hyperintensities and the Progression of Frailtyâ€"The Tasmanian Study of Cognition and Gait. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1545-1550.	1.7	19
60	An ultrasound study of coronal places of articulation in Central Arrernte: Apicals, laminals and rhotics. Journal of Phonetics, 2018, 66, 63-81.	0.6	18
61	Associations Between the Dietary Inflammatory Index, Brain Volume, Small Vessel Disease, and Global Cognitive Function. Journal of the Academy of Nutrition and Dietetics, 2021, 121, 915-924.e3.	0.4	17
62	Sub-Cortical Infarcts and the Risk of Falls in Older People: Combined Results of TASCOG and Sydney MAS Studies. International Journal of Stroke, 2014, 9, 55-60.	2.9	16
63	Uncovering cortico-striatal correlates of cognitive fatigue in pediatric acquired brain disorder: Evidence from traumatic brain injury. Cortex, 2016, 83, 222-230.	1.1	16
64	Brain lesion correlates of fatigue in individuals with traumatic brain injury. Neuropsychological Rehabilitation, 2017, 27, 1056-1070.	1.0	16
65	Cavum septum pellucidum in pediatric traumatic brain injury. Psychiatry Research - Neuroimaging, 2013, 213, 186-192.	0.9	15
66	Increased aortic wave reflection contributes to higher systolic blood pressure in adolescents born preterm. Journal of Hypertension, 2018, 36, 1514-1523.	0.3	15
67	Automated quantitative 3D analysis of faceting of particles in tomographic datasets. Ultramicroscopy, 2012, 122, 65-75.	0.8	14
68	An acoustic study of multiple lateral consonants in three Central Australian languages. Journal of the Acoustical Society of America, 2016, 139, 361-372.	0.5	14
69	Robust and practical non-invasive estimation of local arterial wave speed and mean blood velocity waveforms. Physiological Measurement, 2017, 38, 2081-2099.	1.2	14
70	Assessment of the Alveolar Capillary Network in the Postnatal Mouse Lung in 3D Using Serial Block-Face Scanning Electron Microscopy. Frontiers in Physiology, 2019, 10, 1357.	1.3	14
71	Leaving No Large Vessel Occlusion Stroke Behind. Stroke, 2020, 51, 1951-1960.	1.0	14
72	Dimensions of Subcortical Infarcts Associated with First- to Third-Order Branches of the Basal Ganglia Arteries. Cerebrovascular Diseases, 2013, 35, 262-267.	0.8	13

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73	Computer Modeling of Anterior Circulation Stroke: Proof of Concept in Cerebrovascular Occlusion. Frontiers in Neurology, 2014, 5, 176.	1.1	13
74	Analysis of Patient-Specific Carotid Bifurcation Models Using Computational Fluid Dynamics. Journal of Medical Imaging and Health Informatics, 2011, 1, 116-125.	0.2	13
75	Regional Associations of Cortical Thickness With Gait Variabilityâ€"The Tasmanian Study of Cognition and Gait. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1537-1544.	1.7	12
76	Network component analysis reveals developmental trajectories of structural connectivity and specific alterations in autism spectrum disorder. Human Brain Mapping, 2017, 38, 4169-4184.	1.9	11
77	Observational Study of Brain Atrophy and Cognitive Decline Comparing a Sample of Community-Dwelling People Taking Angiotensin Converting Enzyme Inhibitors and Angiotensin Receptor Blockers Over Time. Journal of Alzheimer's Disease, 2019, 68, 1479-1488.	1.2	11
78	Lesion Induced Error on Automated Measures of Brain Volume: Data From a Pediatric Traumatic Brain Injury Cohort. Frontiers in Neuroscience, 2020, 14, 491478.	1.4	11
79	Googling Location for Operating Base of Mobile Stroke Unit in Metropolitan Sydney. Frontiers in Neurology, 2019, 10, 810.	1.1	10
80	Googling Stroke ASPECTS to Determine Disability: Exploratory Analysis from VISTA-Acute Collaboration. PLoS ONE, 2015, 10, e0125687.	1.1	10
81	Stress Effects on Stop Bursts in Five Languages. Laboratory Phonology, 2016, 7, .	0.3	10
82	Classification of Different Degrees of Disability Following Intracerebral Hemorrhage: A Decision Tree Analysis from VISTA-ICH Collaboration. Frontiers in Neurology, 2017, 8, 64.	1.1	9
83	Arytenoid cartilage movements are hypokinetic in Parkinsonâ€™s disease: A quantitative dynamic computerised tomographic study. PLoS ONE, 2017, 12, e0186611.	1.1	9
84	Dietary Patterns Are Not Associated with Brain Atrophy or Cerebral Small Vessel Disease in Older Adults with and without Type 2 Diabetes. Journal of Nutrition, 2019, 149, 1805-1811.	1.3	9
85	A formant study of the alveolar versus retroflex contrast in three Central Australian languages: Stop, nasal, and lateral manners of articulation. Journal of the Acoustical Society of America, 2020, 147, 2745-2765.	0.5	9
86	Accuracy of automated amygdala MRI segmentation approaches in Huntington's disease in the IMAGEâ€HD cohort. Human Brain Mapping, 2020, 41, 1875-1888.	1.9	9
87	Brain connectivity networks and longitudinal trajectories of depression symptoms in adolescence. Psychiatry Research - Neuroimaging, 2017, 260, 62-69.	0.9	8
88	An Introduction to Software Tools, Data, and Services for Geospatial Analysis of Stroke Services. Frontiers in Neurology, 2019, 10, 743.	1.1	8
89	Structural covariance networks in children and their associations with maternal behaviors. NeuroImage, 2019, 202, 115965.	2.1	8
90	Googling Boundaries for Operating Mobile Stroke Unit for Stroke Codes. Frontiers in Neurology, 2019, 10, 331.	1.1	8

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91	Pulmonary Deposition of Radionucleotide-Labeled Palivizumab: Proof-of-Concept Study. Frontiers in Pharmacology, 2020, 11, 1291.	1.6	8
92	Developmental divergence of structural brain networks as an indicator of future cognitive impairments in childhood brain injury: Executive functions. Developmental Cognitive Neuroscience, 2020, 42, 100762.	1.9	8
93	Anterior Cerebral Artery Stroke: Role of Collateral Systems on Infarct Topography. Stroke, 2021, 52, 2930-2938.	1.0	8
94	Predicting travel time within catchment area using Time Travel Voronoi Diagram (TTVD) and crowdsource map features. Information Processing and Management, 2022, 59, 102922.	5.4	8
95	Manner and place differences in Kannada coronal consonants: Articulatory and acoustic results. Journal of the Acoustical Society of America, 2018, 144, 3221-3235.	0.5	7
96	The Association Between Physical Activity Intensity, Cognition, and Brain Structure in People With Type 2 Diabetes. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 2047-2053.	1.7	7
97	The Structural Connectome and Internalizing and Externalizing Symptoms at 7 and 13 Years in Individuals Born Very Preterm and Full Term. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2022, 7, 424-434.	1.1	7
98	Application of Strategic Transport Model and Google Maps to Develop Better Clot Retrieval Stroke Service. Frontiers in Neurology, 2019, 10, 692.	1.1	6
99	Computer Modeling of Clot Retrievalâ€"Circle of Willis. Frontiers in Neurology, 2020, 11, 773.	1.1	6
100	Adherence to the Australian Dietary Guidelines Is Not Associated with Brain Structure or Cognitive Function in Older Adults. Journal of Nutrition, 2020, 150, 1529-1534.	1.3	6
101	The Associations Between Grey Matter Volume Covariance Patterns and Gait Variabilityâ€"The Tasmanian Study of Cognition and Gait. Brain Topography, 2021, 34, 478-488.	0.8	6
102	Impact of corticofugal fibre involvement in subcortical stroke. BMJ Open, 2013, 3, e003318.	0.8	5
103	Blood Pressure, Aortic Stiffness, Hemodynamics, and Cognition in Twin Pairs Discordant for Type 2 Diabetes. Journal of Alzheimer's Disease, 2019, 71, 763-773.	1.2	5
104	Ex Vivo MRI Analytical Methods and Brain Pathology in Preterm Lambs Treated with Postnatal Dexamethasone â€. Brain Sciences, 2020, 10, 211.	1.1	5
105	Towards understanding neurocognitive mechanisms of parenting: Maternal behaviors and structural brain network organization in late childhood. Human Brain Mapping, 2021, 42, 1845-1862.	1.9	5
106	Quantifying the economic benefit of the personal alarm and emergency response system in Australia: a cost analysis of the reduction in ambulance attendances. Australian Health Review, 2021, 45, 51.	0.5	5
107	Brain tissue microstructural and free-water composition 13 years after very preterm birth. NeuroImage, 2022, 254, 119168.	2.1	5
108	New Horizonsâ€"Cognitive Dysfunction Associated With Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 929-942.	1.8	5

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109	Parallel Algorithms via Scaled Paraboloid Structuring Functions for Spatially-Variant and Label-Set Dilations and Erosions. , 2011, , .		4
110	Application of principal component analysis to study topography of hypoxicâ€“ischemic brain injury. NeuroImage, 2012, 62, 300-306.	2.1	4
111	Automated alignment of perioperative MRI scans: A technical note and application in pediatric epilepsy surgery. Human Brain Mapping, 2016, 37, 3530-3543.	1.9	4
112	Googling Service Boundaries for Endovascular Clot Retrieval (ECR) Hub Hospitals in Metropolitan Sydney. Frontiers in Neurology, 2019, 10, 708.	1.1	4
113	Exploring patterns of personal alarm system use and impacts on outcomes. Australasian Journal on Ageing, 2021, 40, 252-260.	0.4	4
114	Facet Analyser: ParaView plugin for automated facet detection and measurement of interplanar angles of tomographic objects. , 2015, , .		4
115	How arterial pressures affect the consideration of internal carotid artery angle as a risk factor for carotid artherosclerotic disease. Progress in Computational Fluid Dynamics, 2015, 15, 87.	0.1	3
116	Staff Recall Travel Time for ST Elevation Myocardial Infarction Impacted by Traffic Congestion and Distance: A Digitally Integrated Map Software Study. Frontiers in Cardiovascular Medicine, 2018, 4, 89.	1.1	3
117	An articulatory study of the alveolar versus retroflex contrast in pre- and post-stress position in Arrernte. Journal of Phonetics, 2020, 78, 100952.	0.6	3
118	Googling the Lifetime Risk of Stroke Around the World. Frontiers in Neurology, 2020, 11, 729.	1.1	3
119	The association between simple reaction time variability and gait variability: The Tasmanian Study of Cognition and Gait. Gait and Posture, 2021, 89, 206-210.	0.6	3
120	Voicing in Qaqet: Prenasalization and language contact. Journal of Phonetics, 2022, 91, 101138.	0.6	3
121	Neuroimaging and cognitive correlates of retinal Optical Coherence Tomography (OCT) measures at late middle age in a twin sample. Scientific Reports, 2022, 12, .	1.6	3
122	Arterial branching and basal ganglia lacunes: A study in pure small vessel disease. European Stroke Journal, 2017, 2, 264-271.	2.7	2
123	Callosal thickness profiles for prognosticating conversion from mild cognitive impairment to Alzheimerâ€™s disease: A classification approach. Brain and Behavior, 2018, 8, e01142.	1.0	2
124	Exploratory Use of Decision Tree Analysis in Classification of Outcome in Hypoxicâ€“Ischemic Brain Injury. Frontiers in Neurology, 2018, 9, 126.	1.1	2
125	Efficiency of structural connectivity networks relates to intrinsic motivation in children born extremely preterm. Brain Imaging and Behavior, 2019, 13, 995-1008.	1.1	2
126	Investigating the brain structural connectome following working memory training in children born extremely preterm or extremely low birth weight. Journal of Neuroscience Research, 2021, 99, 2340-2350.	1.3	2

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127	Can Helicopters Solve the Transport Dilemma for Patients With Symptoms of Large-Vessel Occlusion Stroke in Intermediate Density Areas? A Simulation Model Based on Real Life Data. Frontiers in Neurology, 2022, 13, 861259.	1.1	2
128	Segmentation of Carotid Arteries in CTA Images. , 2010, , .		1
129	Where do low risk women live relative to maternity services across Victoria? Expanding access to public homebirth models across Victoria. Women and Birth, 2021, 35, e91-e91.	0.9	1
130	Sentiments expressed in <scp>YouTube</scp> public awareness campaigns: stroke. Internal Medicine Journal, 2021, 51, 971-974.	0.5	1
131	An Ultrasound Study of Alveolar and Retroflex Consonants in Arrernte: Stressed and Unstressed Syllables. , 0, , .		1
132	Formant Measures of Vowels Adjacent to Alveolar and Retroflex Consonants in Arrernte: Stressed and Unstressed Position. , 0, , .		1
133	An ultrasound and formant study of manner contrasts at four coronal places of articulation. Journal of the Acoustical Society of America, 2020, 148, 3195-3217.	0.5	1
134	Participant followup rate can bias structural imaging measures in longitudinal studies. NeuroImage Reports, 2021, 1, 100066.	0.5	1
135	Stereoscopic flatbed scanner. Journal of Electronic Imaging, 2009, 18, 013002.	0.5	0
136	On Computing Greyscale Morphology with Large Exact Spheres in Arbitrary Dimensions via 1-D Distance Transforms. , 2012, , .		0
137	Brain Imaging in Type 2 Diabetes. , 2018, , 49-66.		0
138	Editorial: Geospatial and Transport Modeling in Stroke Service Planning. Frontiers in Neurology, 2019, 10, 1057.	1.1	0
139	Trans-vocalic coronal consonant coarticulation in Central Arrernte: An electro-palatographic study. Journal of the International Phonetic Association, 0, , 1-32.	0.6	0
140	Topographic Evolution of Anterior Cerebral Artery Infarction and Its Impact on Motor Impairment. Cerebrovascular Diseases, 2022, 51, 248-258.	0.8	0
141	Mild brain lesions do not affect brain volumes in moderate-late preterm infants. European Journal of Paediatric Neurology, 2021, 34, 91-98.	0.7	0
142	A Preliminary Ultrasound Study of Nasal and Lateral Coronals in Arrernte. , 0, , .		0
143	Parallel algorithms for erosion and dilation of label images.. The Insight Journal, 2013, , .	0.2	0
144	Modelling STEMI service delivery: a proof of concept study. Emergency Medicine Journal, 2022, 39, 701-707.	0.4	0