

# Maria C ValdÃ©s HernÃ¡ndez

## List of Publications by Year in descending order

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Version: 2024-02-01

135  
papers

6,900  
citations

94433

37  
h-index

74163

75  
g-index

160  
all docs

160  
docs citations

160  
times ranked

10395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene-mapping study of extremes of cerebral small vessel disease reveals TRIM47 as a strong candidate. <i>Brain</i> , 2022, 145, 1992-2007.	7.6	6
2	Circulating Metabolome and White Matter Hyperintensities in Women and Men. <i>Circulation</i> , 2022, 145, 1040-1052.	1.6	17
3	Impact of Small Vessel Disease Progression on Long-term Cognitive and Functional Changes After Stroke. <i>Neurology</i> , 2022, 98, .	1.1	9
4	An epigenetic predictor of death captures multi-modal measures of brain health. <i>Molecular Psychiatry</i> , 2021, 26, 3806-3816.	7.9	77
5	Rationale and design of a longitudinal study of cerebral small vessel diseases, clinical and imaging outcomes in patients presenting with mild ischaemic stroke: Mild Stroke Study 3. <i>European Stroke Journal</i> , 2021, 6, 81-88.	5.5	17
6	Brain network reorganisation and spatial lesion distribution in systemic lupus erythematosus. <i>Lupus</i> , 2021, 30, 285-298.	1.6	6
7	Selective Motion Artefact Reduction via Radiomics and k-space Reconstruction for Improving Perivascular Space Quantification in Brain Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2021, , 151-164.	1.3	1
8	Probabilistic Deep Learning with Adversarial Training and Volume Interval Estimation - Better Ways to Perform and Evaluate Predictive Models for White Matter Hyperintensities Evolution. <i>Lecture Notes in Computer Science</i> , 2021, , 168-180.	1.3	1
9	Lacunar Stroke Lesion Extent and Location and White Matter Hyperintensities Evolution 1 Year Post-lacunar Stroke. <i>Frontiers in Neurology</i> , 2021, 12, 640498.	2.4	6
10	Post-stroke Cognition at 1 and 3 Years Is Influenced by the Location of White Matter Hyperintensities in Patients With Lacunar Stroke. <i>Frontiers in Neurology</i> , 2021, 12, 634460.	2.4	7
11	Automatic segmentation of white matter hyperintensities from brain magnetic resonance images in the era of deep learning and big data – A systematic review. <i>Computerized Medical Imaging and Graphics</i> , 2021, 88, 101867.	5.8	29
12	A four-dimensional computational model of dynamic contrast-enhanced magnetic resonance imaging measurement of subtle blood-brain barrier leakage. <i>NeuroImage</i> , 2021, 230, 117786.	4.2	15
13	Comparison of structural MRI brain measures between 1.5 and 3T: Data from the Lothian Birth Cohort 1936. <i>Human Brain Mapping</i> , 2021, 42, 3905-3921.	3.6	11
14	Structural, Functional, and Metabolic Brain Differences as a Function of Gender Identity or Sexual Orientation: A Systematic Review of the Human Neuroimaging Literature. <i>Archives of Sexual Behavior</i> , 2021, 50, 3329-3352.	1.9	16
15	Fixel-Based Analysis Effectively Identifies White Matter Tract Degeneration in Huntington's Disease. <i>Frontiers in Neuroscience</i> , 2021, 15, 711651.	2.8	5
16	Relationship between inferior frontal sulcal hyperintensities on brain MRI, ageing and cerebral small vessel disease. <i>Neurobiology of Aging</i> , 2021, 106, 130-138.	3.1	5
17	Birth weight is associated with brain tissue volumes seven decades later but not with MRI markers of brain ageing. <i>NeuroImage: Clinical</i> , 2021, 31, 102776.	2.7	14
18	DNA Methylation and Protein Markers of Chronic Inflammation and Their Associations With Brain and Cognitive Aging. <i>Neurology</i> , 2021, 97, e2340-e2352.	1.1	44

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19	Tracer kinetic assessment of blood-brain barrier leakage and blood volume in cerebral small vessel disease: Associations with disease burden and vascular risk factors. <i>NeuroImage: Clinical</i> , 2021, 32, 102883.	2.7	7
20	Perivascular spaces in the centrum semiovale at the beginning of the 8th decade of life: effect on cognition and associations with mineral deposition. <i>Brain Imaging and Behavior</i> , 2020, 14, 1865-1875.	2.1	19
21	Analysis of dynamic texture and spatial spectral descriptors of dynamic contrast-enhanced brain magnetic resonance images for studying small vessel disease. <i>Magnetic Resonance Imaging</i> , 2020, 66, 240-247.	1.8	6
22	Sleep and brain morphological changes in the eighth decade of life. <i>Sleep Medicine</i> , 2020, 65, 152-158.	1.6	27
23	Predictors of Lesion Cavitation After Recent Small Subcortical Stroke. <i>Translational Stroke Research</i> , 2020, 11, 402-411.	4.2	12
24	The striatum, the hippocampus, and short-term memory binding: Volumetric analysis of the subcortical grey matter's role in mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2020, 25, 102158.	2.7	29
25	Fluctuating asymmetry in brain structure and general intelligence in 73-year-olds. <i>Intelligence</i> , 2020, 78, 101407.	3.0	9
26	Computational quantification of brain perivascular space morphologies: Associations with vascular risk factors and white matter hyperintensities. A study in the Lothian Birth Cohort 1936. <i>NeuroImage: Clinical</i> , 2020, 25, 102120.	2.7	51
27	Limited One-time Sampling Irregularity Map (LOTS-IM) for Automatic Unsupervised Assessment of White Matter Hyperintensities and Multiple Sclerosis Lesions in Structural Brain Magnetic Resonance Images. <i>Computerized Medical Imaging and Graphics</i> , 2020, 79, 101685.	5.8	12
28	Dietary patterns, cognitive function, and structural neuroimaging measures of brain aging. <i>Experimental Gerontology</i> , 2020, 142, 111117.	2.8	23
29	Cerebral small vessel disease genomics and its implications across the lifespan. <i>Nature Communications</i> , 2020, 11, 6285.	12.8	89
30	Quantitative measurements of enlarged perivascular spaces in the brain are associated with retinal microvascular parameters in older community-dwelling subjects. <i>Cerebral Circulation - Cognition and Behavior</i> , 2020, 1, 100002.	0.9	6
31	Examining the Relationship between Semiquantitative Methods Analysing Concentration-Time and Enhancement-Time Curves from Dynamic-Contrast Enhanced Magnetic Resonance Imaging and Cerebrovascular Dysfunction in Small Vessel Disease. <i>Journal of Imaging</i> , 2020, 6, 43.	3.0	1
32	Polygenic Architecture of Human Neuroanatomical Diversity. <i>Cerebral Cortex</i> , 2020, 30, 2307-2320.	2.9	16
33	Automatic spatial estimation of white matter hyperintensities evolution in brain MRI using disease evolution predictor deep neural networks. <i>Medical Image Analysis</i> , 2020, 63, 101712.	11.6	16
34	A Framework for Jointly Assessing and Reducing Imaging Artefacts Automatically Using Texture Analysis and Total Variation Optimisation for Improving Perivascular Spaces Quantification in Brain Magnetic Resonance Imaging. <i>Communications in Computer and Information Science</i> , 2020, , 171-183.	0.5	4
35	Neurology-related protein biomarkers are associated with cognitive ability and brain volume in older age. <i>Nature Communications</i> , 2020, 11, 800.	12.8	42
36	Retinal Biomarkers Discovery for Cerebral Small Vessel Disease in an Older Population. <i>Communications in Computer and Information Science</i> , 2020, , 400-409.	0.5	2

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37	Analysis of Spatial Spectral Features of Dynamic Contrast-Enhanced Brain Magnetic Resonance Images for Studying Small Vessel Disease. <i>Communications in Computer and Information Science</i> , 2020, , 282-293.	0.5	1
38	Brain Peak Width of Skeletonized Mean Diffusivity (PSMD) and Cognitive Function in Later Life. <i>Frontiers in Psychiatry</i> , 2019, 10, 524.	2.6	33
39	Structural neuroimaging differentiates vulnerability from disease manifestation in colombian families with Huntington's disease. <i>Brain and Behavior</i> , 2019, 9, e01343.	2.2	9
40	Dilated Saliency U-Net for White Matter Hyperintensities Segmentation Using Irregularity Age Map. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 150.	3.4	11
41	Association between Striatal Brain Iron Deposition, Microbleeds and Cognition 1 Year After a Minor Ischaemic Stroke. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1293.	4.1	12
42	Identification of the presence of ischaemic stroke lesions by means of texture analysis on brain magnetic resonance images. <i>Computerized Medical Imaging and Graphics</i> , 2019, 74, 12-24.	5.8	42
43	Longitudinal multi-centre brain imaging studies: guidelines and practical tips for accurate and reproducible imaging endpoints and data sharing. <i>Trials</i> , 2019, 20, 21.	1.6	9
44	MRI Relaxometry for Quantitative Analysis of USPIO Uptake in Cerebral Small Vessel Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 776.	4.1	10
45	Hierarchical complexity of the adult human structural connectome. <i>NeuroImage</i> , 2019, 191, 205-215.	4.2	16
46	Predicting the Evolution of White Matter Hyperintensities in Brain MRI Using Generative Adversarial Networks and Irregularity Map. <i>Lecture Notes in Computer Science</i> , 2019, , 146-154.	1.3	7
47	Reaction time variability and brain white matter integrity.. <i>Neuropsychology</i> , 2019, 33, 642-657.	1.3	6
48	Segmentation of white matter hyperintensities using convolutional neural networks with global spatial information in routine clinical brain MRI with none or mild vascular pathology. <i>Computerized Medical Imaging and Graphics</i> , 2018, 66, 28-43.	5.8	68
49	Coupled changes in hippocampal structure and cognitive ability in later life. <i>Brain and Behavior</i> , 2018, 8, e00838.	2.2	21
50	The brain health index: Towards a combined measure of neurovascular and neurodegenerative structural brain injury. <i>International Journal of Stroke</i> , 2018, 13, 849-856.	5.9	18
51	Perivascular Spaces Segmentation in Brain MRI Using Optimal 3D Filtering. <i>Scientific Reports</i> , 2018, 8, 2132.	3.3	98
52	A large margin algorithm for automated segmentation of white matter hyperintensity. <i>Pattern Recognition</i> , 2018, 77, 150-159.	8.1	19
53	Considerations on accuracy, pattern and possible underlying factors of brain microbleed progression in older adults with absence or mild presence of vascular pathology. <i>Journal of International Medical Research</i> , 2018, 46, 3518-3538.	1.0	4
54	A critical analysis of neuroanatomical software protocols reveals clinically relevant differences in parcellation schemes. <i>NeuroImage</i> , 2018, 170, 348-364.	4.2	22

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55	Brain cortical characteristics of lifetime cognitive ageing. <i>Brain Structure and Function</i> , 2018, 223, 509-518.	2.3	44
56	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. <i>Human Brain Mapping</i> , 2018, 39, 622-632.	3.6	41
57	Brain structural differences between 73- and 92-year olds matched for childhood intelligence, social background, and intracranial volume. <i>Neurobiology of Aging</i> , 2018, 62, 146-158.	3.1	11
58	Do 2-3 year changes in superior frontal gyrus and global brain atrophy affect cognition?. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 706-716.	2.4	7
59	Transfer Learning for Task Adaptation of Brain Lesion Assessment and Prediction of Brain Abnormalities Progression/Regression Using Irregularity Age Map in Brain MRI. <i>Lecture Notes in Computer Science</i> , 2018, , 85-93.	1.3	2
60	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. <i>Nature Communications</i> , 2018, 9, 3945.	12.8	31
61	Exome Chip Analysis Identifies Low-Frequency and Rare Variants in <i>MRPL38</i> for White Matter Hyperintensities on Brain Magnetic Resonance Imaging. <i>Stroke</i> , 2018, 49, 1812-1819.	2.0	17
62	Machine learning of neuroimaging for assisted diagnosis of cognitive impairment and dementia: A systematic review. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 519-535.	2.4	162
63	Longitudinal serum S100 $\beta$ and brain aging in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2018, 69, 274-282.	3.1	13
64	Automatic Irregular Texture Detection in Brain MRI Without Human Supervision. <i>Lecture Notes in Computer Science</i> , 2018, , 506-513.	1.3	6
65	Integrity of normal-appearing white matter: Influence of age, visible lesion burden and hypertension in patients with small-vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 644-656.	4.3	147
66	Interhemispheric characterization of small vessel disease imaging markers after subcortical infarct. <i>Brain and Behavior</i> , 2017, 7, e00595.	2.2	8
67	Reliability of an automatic classifier for brain enlarged perivascular spaces burden and comparison with human performance. <i>Clinical Science</i> , 2017, 131, 1465-1481.	4.3	28
68	Risk and protective factors for structural brain ageing in the eighth decade of life. <i>Brain Structure and Function</i> , 2017, 222, 3477-3490.	2.3	40
69	Brain grey and white matter predictors of verbal ability traits in older age: The Lothian Birth Cohort 1936. <i>NeuroImage</i> , 2017, 156, 394-402.	4.2	21
70	Interaction of APOE e4 and poor glycemic control predicts white matter hyperintensity growth from 73 to 76. <i>Neurobiology of Aging</i> , 2017, 54, 54-58.	3.1	20
71	Mediterranean-type diet and brain structural change from 73 to 76 years in a Scottish cohort. <i>Neurology</i> , 2017, 88, 449-455.	1.1	109
72	Metric to quantify white matter damage on brain magnetic resonance images. <i>Neuroradiology</i> , 2017, 59, 951-962.	2.2	19

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73	Brain lesion segmentation through image synthesis and outlier detection. <i>NeuroImage: Clinical</i> , 2017, 16, 643-658.	2.7	38
74	Dietary iodine exposure and brain structures and cognition in older people. Exploratory analysis in the Lothian Birth Cohort 1936. <i>Journal of Nutrition, Health and Aging</i> , 2017, 21, 971-979.	3.3	11
75	Workshop on reconstruction schemes for magnetic resonance data: summary of findings and recommendations. <i>Royal Society Open Science</i> , 2017, 4, 160731.	2.4	2
76	Blood-brain barrier failure as a core mechanism in cerebral small vessel disease and dementia: evidence from a cohort study. <i>Alzheimer's and Dementia</i> , 2017, 13, 634-643.	0.8	190
77	Deep Learning vs. Conventional Machine Learning: Pilot Study of WMH Segmentation in Brain MRI with Absence or Mild Vascular Pathology. <i>Journal of Imaging</i> , 2017, 3, 66.	3.0	19
78	Application of Texture Analysis to Study Small Vessel Disease and Blood-brain Barrier Integrity. <i>Frontiers in Neurology</i> , 2017, 8, 327.	2.4	27
79	Voxel-based irregularity age map (IAM) for brain's white matter hyperintensities in MRI. , 2017, , .		5
80	Evaluation of Four Supervised Learning Schemes in White Matter Hyperintensities Segmentation in Absence or Mild Presence of Vascular Pathology. <i>Communications in Computer and Information Science</i> , 2017, , 482-493.	0.5	1
81	Super Resolution Convolutional Neural Networks for Increasing Spatial Resolution of $H_1$ Magnetic Resonance Spectroscopic Imaging. <i>Communications in Computer and Information Science</i> , 2017, , 641-650.	0.5	4
82	Automatic Rating of Perivascular Spaces in Brain MRI Using Bag of Visual Words. <i>Lecture Notes in Computer Science</i> , 2016, , 642-649.	1.3	5
83	Trait conscientiousness and the personality meta-trait stability are associated with regional white matter microstructure. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 1255-1261.	3.0	18
84	On the computational assessment of white matter hyperintensity progression: difficulties in method selection and bias field correction performance on images with significant white matter pathology. <i>Neuroradiology</i> , 2016, 58, 475-485.	2.2	9
85	Application of the Ordered Logit Model to Optimising Frangi Filter Parameters for Segmentation of Perivascular Spaces. <i>Procedia Computer Science</i> , 2016, 90, 61-67.	2.0	28
86	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. <i>Neurology</i> , 2016, 87, 1820-1826.	1.1	46
87	Texture-based Classification for the Automatic Rating of the Perivascular Spaces in Brain MRI. <i>Procedia Computer Science</i> , 2016, 90, 9-14.	2.0	3
88	Pseudo-healthy Image Synthesis for White Matter Lesion Segmentation. <i>Lecture Notes in Computer Science</i> , 2016, , 87-96.	1.3	19
89	3D shape analysis of the brain's third ventricle using a midplane encoded symmetric template model. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 129, 51-62.	4.7	2
90	Tracer kinetic modelling for DCE-MRI quantification of subtle blood-brain barrier permeability. <i>NeuroImage</i> , 2016, 125, 446-455.	4.2	138

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91	Development and initial evaluation of a semi-automatic approach to assess perivascular spaces on conventional magnetic resonance images. <i>Journal of Neuroscience Methods</i> , 2016, 257, 34-44.	2.5	43
92	Progression of White Matter Disease and Cortical Thinning Are Not Related in Older Community-Dwelling Subjects. <i>Stroke</i> , 2016, 47, 410-416.	2.0	35
93	Blood pressure and sodium: Association with MRI markers in cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 264-274.	4.3	55
94	Structural Brain MRI Trait Polygenic Score Prediction of Cognitive Abilities. <i>Twin Research and Human Genetics</i> , 2015, 18, 738-745.	0.6	4
95	Rationale, design and methodology of the image analysis protocol for studies of patients with cerebral small vessel disease and mild stroke. <i>Brain and Behavior</i> , 2015, 5, e00415.	2.2	65
96	A Comparison of Location of Acute Symptomatic vs. â€Silentâ€ Small Vessel Lesions. <i>International Journal of Stroke</i> , 2015, 10, 1044-1050.	5.9	59
97	<i>APOE/TOMM40</i> Genetic Loci, White Matter Hyperintensities, and Cerebral Microbleeds. <i>International Journal of Stroke</i> , 2015, 10, 1297-1300.	5.9	15
98	Coupled Changes in Brain White Matter Microstructure and Fluid Intelligence in Later Life. <i>Journal of Neuroscience</i> , 2015, 35, 8672-8682.	3.6	97
99	Beyond a bigger brain: Multivariable structural brain imaging and intelligence. <i>Intelligence</i> , 2015, 51, 47-56.	3.0	101
100	Brain volumetric changes and cognitive ageing during the eighth decade of life. <i>Human Brain Mapping</i> , 2015, 36, 4910-4925.	3.6	79
101	What are White Matter Hyperintensities Made of?. <i>Journal of the American Heart Association</i> , 2015, 4, 001140.	3.7	599
102	Does white matter structure or hippocampal volume mediate associations between cortisol and cognitive ageing?. <i>Psychoneuroendocrinology</i> , 2015, 62, 129-137.	2.7	26
103	Hippocampal Shape Modeling Based on a Progressive Template Surface Deformation and its Verification. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1242-1261.	8.9	21
104	Exploratory analysis of dietary intake and brain iron accumulation detected using magnetic resonance imaging in older individuals: The Lothian Birth Cohort 1936. <i>Journal of Nutrition, Health and Aging</i> , 2015, 19, 64-69.	3.3	9
105	Brain iron deposits and lifespan cognitive ability. <i>Age</i> , 2015, 37, 100.	3.0	24
106	Association of allostatic load with brain structure and cognitive ability in later life. <i>Neurobiology of Aging</i> , 2015, 36, 1390-1399.	3.1	67
107	Genes From a Translational Analysis Support a Multifactorial Nature of White Matter Hyperintensities. <i>Stroke</i> , 2015, 46, 341-347.	2.0	33
108	White matter hyperintensities and normal-appearing white matter integrity in the aging brain. <i>Neurobiology of Aging</i> , 2015, 36, 909-918.	3.1	224

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109	Automated segmentation of multifocal basal ganglia T2*-weighted MRI hypointensities. <i>NeuroImage</i> , 2015, 105, 332-346.	4.2	9
110	Vascular risk factors, large-artery atheroma, and brain white matter hyperintensities. <i>Neurology</i> , 2014, 82, 1331-1338.	1.1	181
111	Circulating Inflammatory Markers Are Associated With Magnetic Resonance Imaging-Visible Perivascular Spaces But Not Directly With White Matter Hyperintensities. <i>Stroke</i> , 2014, 45, 605-607.	2.0	113
112	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014, 8, 153-182.	2.1	696
113	Assessment of blood-brain barrier disruption using dynamic contrast-enhanced MRI. A systematic review. <i>NeuroImage: Clinical</i> , 2014, 6, 262-274.	2.7	285
114	Differentiation of calcified regions and iron deposits in the ageing brain on conventional structural MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 324-333.	3.4	17
115	Quantitative multi-modal MRI of the Hippocampus and cognitive ability in community-dwelling older subjects. <i>Cortex</i> , 2014, 53, 34-44.	2.4	22
116	Blood Pressure, Internal Carotid Artery Flow Parameters, and Age-Related White Matter Hyperintensities. <i>Hypertension</i> , 2014, 63, 1011-1018.	2.7	114
117	Alzheimer's disease susceptibility genes APOE and TOMM40, and brain white matter integrity in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2014, 35, 1513.e25-1513.e33.	3.1	58
118	Personality, health, and brain integrity: The Lothian Birth Cohort Study 1936.. <i>Health Psychology</i> , 2014, 33, 1477-1486.	1.6	38
119	Brain white matter damage in aging and cognitive ability in youth and older age. <i>Neurobiology of Aging</i> , 2013, 34, 2740-2747.	3.1	83
120	Estimated maximal and current brain volume predict cognitive ability in old age. <i>Neurobiology of Aging</i> , 2013, 34, 2726-2733.	3.1	73
121	Characterization of multifocal T2*-weighted MRI hypointensities in the basal ganglia of elderly, community-dwelling subjects. <i>NeuroImage</i> , 2013, 82, 470-480.	4.2	13
122	Close Correlation between Quantitative and Qualitative Assessments of White Matter Lesions. <i>Neuroepidemiology</i> , 2013, 40, 13-22.	2.3	88
123	Towards the automatic computational assessment of enlarged perivascular spaces on brain magnetic resonance images: A systematic review. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 774-785.	3.4	69
124	Blood-brain Barrier Permeability and Long-Term Clinical and Imaging Outcomes in Cerebral Small Vessel Disease. <i>Stroke</i> , 2013, 44, 525-527.	2.0	149
125	How Much Do Focal Infarcts Distort White Matter Lesions and Global Cerebral Atrophy Measures?. <i>Cerebrovascular Diseases</i> , 2012, 34, 336-342.	1.7	29
126	Brain iron deposits are associated with general cognitive ability and cognitive aging. <i>Neurobiology of Aging</i> , 2012, 33, 510-517.e2.	3.1	104



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127	A systematic review of the utility of 1.5 versus 3 Tesla magnetic resonance brain imaging in clinical practice and research. <i>European Radiology</i> , 2012, 22, 2295-2303.	4.5	75
128	Identification of mineral deposits in the brain on radiological images: a systematic review. <i>European Radiology</i> , 2012, 22, 2371-2381.	4.5	59
129	Automatic segmentation of brain white matter and white matter lesions in normal aging: comparison of five multispectral techniques. <i>Magnetic Resonance Imaging</i> , 2012, 30, 222-229.	1.8	24
130	Color Fusion of Magnetic Resonance Images Improves Intracranial Volume Measurement in Studies of Aging. <i>Open Journal of Radiology</i> , 2012, 02, 1-9.	0.2	16
131	Brain Aging, Cognition in Youth and Old Age and Vascular Disease in the Lothian Birth Cohort 1936: Rationale, Design and Methodology of the Imaging Protocol. <i>International Journal of Stroke</i> , 2011, 6, 547-559.	5.9	188
132	Reliability of two techniques for assessing cerebral iron deposits with structural magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 54-61.	3.4	12
133	New multispectral MRI data fusion technique for white matter lesion segmentation: method and comparison with thresholding in FLAIR images. <i>European Radiology</i> , 2010, 20, 1684-1691.	4.5	146
134	A General Factor of Brain White Matter Integrity Predicts Information Processing Speed in Healthy Older People. <i>Journal of Neuroscience</i> , 2010, 30, 7569-7574.	3.6	297
135	Rationale and design of the brain magnetic resonance imaging protocol for FutureMS: a longitudinal multi-centre study of newly diagnosed patients with relapsing-remitting multiple sclerosis in Scotland. <i>Wellcome Open Research</i> , 0, 7, 94.	1.8	6