

Carles Falcon

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

5,600
citations

81743

39
h-index

102304

66
g-index

162
all docs

162
docs citations

162
times ranked

9347
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Modulation of large-scale brain networks by transcranial direct current stimulation evidenced by resting-state functional MRI. <i>Brain Stimulation</i> , 2012, 5, 252-263. | 0.7 | 261 |
| 2 | Trans-synaptic axonal degeneration in the visual pathway in multiple sclerosis. <i>Annals of Neurology</i> , 2014, 75, 98-107. | 2.8 | 206 |
| 3 | Novel tau biomarkers phosphorylated at T181, T217 or T231 rise in the initial stages of the preclinical Alzheimer's continuum when only subtle changes in A β pathology are detected. <i>EMBO Molecular Medicine</i> , 2020, 12, e12921. | 3.3 | 202 |
| 4 | Dynamic functional connectivity reveals altered variability in functional connectivity among patients with major depressive disorder. <i>Human Brain Mapping</i> , 2016, 37, 2918-2930. | 1.9 | 186 |
| 5 | Repetitive Transcranial Magnetic Stimulation Effects on Brain Function and Cognition among Elders with Memory Dysfunction. A Randomized Sham-Controlled Study. <i>Cerebral Cortex</i> , 2006, 16, 1487-1493. | 1.6 | 169 |
| 6 | A cross-sectional and follow-up voxel-based morphometric MRI study in adolescent anorexia nervosa. <i>Journal of Psychiatric Research</i> , 2009, 43, 331-340. | 1.5 | 158 |
| 7 | Differential effects of intrauterine growth restriction on brain structure and development in preterm infants: A magnetic resonance imaging study. <i>Brain Research</i> , 2011, 1382, 98-108. | 1.1 | 149 |
| 8 | Cognitive reserve modulates task-induced activations and deactivations in healthy elders, amnesic mild cognitive impairment and mild Alzheimer's disease. <i>Cortex</i> , 2010, 46, 451-461. | 1.1 | 136 |
| 9 | Modulation of verbal fluency networks by transcranial direct current stimulation (tDCS) in Parkinson's disease. <i>Brain Stimulation</i> , 2013, 6, 16-24. | 0.7 | 135 |
| 10 | Decreased Regional Brain Volume and Cognitive Impairment in Preterm Children at Low Risk. <i>Pediatrics</i> , 2009, 124, e1161-e1170. | 1.0 | 116 |
| 11 | Decreased cerebral activation during CPT performance. <i>NeuroImage</i> , 2004, 21, 840-847. | 2.1 | 110 |
| 12 | Frontal and associative visual areas related to visual hallucinations in dementia with Lewy bodies and Parkinson's disease with dementia. <i>Movement Disorders</i> , 2010, 25, 615-622. | 2.2 | 109 |
| 13 | Effects of APOE ϵ 4 allele load on brain morphology in a cohort of middle-aged healthy individuals with enriched genetic risk for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2018, 14, 902-912. | 0.4 | 98 |
| 14 | Patterns of cerebral white matter damage and cognitive impairment in adolescents born very preterm. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 647-654. | 0.7 | 95 |
| 15 | Progressive gray matter changes in first episode schizophrenia: A 4-year longitudinal magnetic resonance study using VBM. <i>Schizophrenia Research</i> , 2009, 114, 136-143. | 1.1 | 94 |
| 16 | APOE-by-sex interactions on brain structure and metabolism in healthy elderly controls. <i>Oncotarget</i> , 2015, 6, 26663-26674. | 0.8 | 92 |
| 17 | Microstructural white matter changes in metabolic syndrome. <i>Neurology</i> , 2009, 73, 438-444. | 1.5 | 87 |
| 18 | Cerebrospinal fluid sTREM2 levels are associated with gray matter volume increases and reduced diffusivity in early Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2016, 12, 1259-1272. | 0.4 | 86 |

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|----|--|-----|-----------|
| 19 | Centiloid cut-off values for optimal agreement between PET and CSF core AD biomarkers. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 27. | 3.0 | 82 |
| 20 | Interactions of cognitive reserve with regional brain anatomy and brain function during a working memory task in healthy elders. <i>Biological Psychology</i> , 2009, 80, 256-259. | 1.1 | 81 |
| 21 | Why Does Acute Hyperglycemia Worsen the Outcome of Transient Focal Cerebral Ischemia?. <i>Stroke</i> , 2006, 37, 1288-1295. | 1.0 | 76 |
| 22 | A longitudinal fMRI study of working memory in severe TBI patients with diffuse axonal injury. <i>NeuroImage</i> , 2008, 43, 421-429. | 2.1 | 74 |
| 23 | A whole-brain computational modeling approach to explain the alterations in resting-state functional connectivity during progression of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2017, 16, 343-354. | 1.4 | 73 |
| 24 | Brain and cognitive correlates of subjective cognitive decline-plus features in a population-based cohort. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 123. | 3.0 | 73 |
| 25 | Brain changes in children and adolescents with obsessive-compulsive disorder before and after treatment: A voxel-based morphometric MRI study. <i>Psychiatry Research - Neuroimaging</i> , 2009, 172, 140-146. | 0.9 | 71 |
| 26 | Impact of urban environmental exposures on cognitive performance and brain structure of healthy individuals at risk for Alzheimer's dementia. <i>Environment International</i> , 2020, 138, 105546. | 4.8 | 69 |
| 27 | Influence of Corpus Callosum Damage on Cognition and Physical Disability in Multiple Sclerosis: A Multimodal Study. <i>PLoS ONE</i> , 2012, 7, e37167. | 1.1 | 68 |
| 28 | Regional vulnerability of hippocampal subfields to aging measured by structural and diffusion MRI. <i>Hippocampus</i> , 2014, 24, 403-414. | 0.9 | 67 |
| 29 | Correlations between gray matter reductions and cognitive deficits in dementia with Lewy Bodies and Parkinson's disease with dementia. <i>Movement Disorders</i> , 2009, 24, 1740-1746. | 2.2 | 63 |
| 30 | Frontal Hypoactivation on Functional Magnetic Resonance Imaging in Working Memory after Severe Diffuse Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2008, 25, 479-494. | 1.7 | 62 |
| 31 | Task-dependent Activity and Connectivity Predict Episodic Memory Network-based Responses to Brain Stimulation in Healthy Aging. <i>Brain Stimulation</i> , 2014, 7, 287-296. | 0.7 | 62 |
| 32 | CSF YKL-40 and pTau181 are related to different cerebral morphometric patterns in early AD. <i>Neurobiology of Aging</i> , 2016, 38, 47-55. | 1.5 | 54 |
| 33 | Association between insomnia and cognitive performance, gray matter volume, and white matter microstructure in cognitively unimpaired adults. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 4. | 3.0 | 53 |
| 34 | Adolescent anorexia nervosa: Cross-sectional and follow-up frontal gray matter disturbances detected with proton magnetic resonance spectroscopy. <i>Journal of Psychiatric Research</i> , 2007, 41, 952-958. | 1.5 | 51 |
| 35 | PET/MRI and PET/MRI/SISCOM coregistration in the presurgical evaluation of refractory focal epilepsy. <i>Epilepsy Research</i> , 2015, 111, 1-9. | 0.8 | 50 |
| 36 | A cross-sectional and follow-up functional MRI study with a working memory task in adolescent anorexia nervosa. <i>Neuropsychologia</i> , 2010, 48, 4111-4116. | 0.7 | 48 |

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|----|--|-----|-----------|
| 37 | Cognitive functions in multiple sclerosis: impact of gray matter integrity. <i>Multiple Sclerosis Journal</i> , 2014, 20, 424-432. | 1.4 | 47 |
| 38 | Nonlinear cerebral atrophy patterns across the Alzheimer's disease continuum: impact of APOE4 genotype. <i>Neurobiology of Aging</i> , 2015, 36, 2687-2701. | 1.5 | 46 |
| 39 | Spatial patterns of white matter hyperintensities associated with Alzheimer's disease risk factors in a cognitively healthy middle-aged cohort. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 12. | 3.0 | 46 |
| 40 | Increased methylation at an unexplored glucocorticoid responsive element within exon 1D of NR3C1 gene is related to anxious-depressive disorders and decreased hippocampal connectivity. <i>European Neuropsychopharmacology</i> , 2018, 28, 579-588. | 0.3 | 44 |
| 41 | White matter microstructure is altered in cognitively normal middle-aged APOE- ϵ 4 homozygotes. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 48. | 3.0 | 43 |
| 42 | Neurochemical Modulation in Posteromedial Default-mode Network Cortex Induced by Transcranial Magnetic Stimulation. <i>Brain Stimulation</i> , 2015, 8, 937-944. | 0.7 | 42 |
| 43 | Glucose and caffeine effects on sustained attention: an exploratory fMRI study.. <i>Human Psychopharmacology</i> , 2010, 25, 543-552. | 0.7 | 41 |
| 44 | Normal gray and white matter volume after weight restoration in adolescents with anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2013, 46, 841-848. | 2.1 | 41 |
| 45 | Patterns of white matter hyperintensities associated with cognition in middle-aged cognitively healthy individuals. <i>Brain Imaging and Behavior</i> , 2020, 14, 2012-2023. | 1.1 | 40 |
| 46 | CSF Synaptic Biomarkers in the Preclinical Stage of Alzheimer Disease and Their Association With MRI and PET. <i>Neurology</i> , 2021, 97, e2065-e2078. | 1.5 | 40 |
| 47 | Quantification of dopaminergic neurotransmission SPECT studies with 123I-labelled radioligands. A comparison between different imaging systems and data acquisition protocols using Monte Carlo simulation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 1334-1342. | 3.3 | 38 |
| 48 | Brain T1 intensity changes after levodopa administration in healthy subjects: a voxel-based morphometry study. <i>British Journal of Clinical Pharmacology</i> , 2006, 62, 546-551. | 1.1 | 36 |
| 49 | The APOE ϵ 4 genotype modulates CSF YKL40 levels and their structural brain correlates in the continuum of Alzheimer's disease but not those of sTREM2. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2017, 6, 50-59. | 1.2 | 36 |
| 50 | Hippocampal functional magnetic resonance imaging during a face-name learning task in adolescents with antecedents of prematurity. <i>NeuroImage</i> , 2005, 25, 561-569. | 2.1 | 35 |
| 51 | FKBP5 modulates the hippocampal connectivity deficits in depression: a study in twins. <i>Brain Imaging and Behavior</i> , 2017, 11, 62-75. | 1.1 | 34 |
| 52 | Functional neuroimaging in startle epilepsy: Involvement of a mesial frontoparietal network. <i>Epilepsia</i> , 2011, 52, 1725-1732. | 2.6 | 33 |
| 53 | A comparison of various MRI feature types for characterizing whole brain anatomical differences using linear pattern recognition methods. <i>NeuroImage</i> , 2018, 178, 753-768. | 2.1 | 33 |
| 54 | Episodic memory and executive functions in cognitively healthy individuals display distinct neuroanatomical correlates which are differentially modulated by aging. <i>Human Brain Mapping</i> , 2018, 39, 4565-4579. | 1.9 | 32 |

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|----|---|-----|-----------|
| 55 | Modest MRI Signal Intensity Changes Precede Delayed Cortical Necrosis After Transient Focal Ischemia in the Rat. <i>Stroke</i> , 2006, 37, 1525-1532. | 1.0 | 31 |
| 56 | ¹ H-MRS of the anterior cingulate cortex in childhood and adolescent obsessive-compulsive disorder: A case-control study. <i>European Neuropsychopharmacology</i> , 2015, 25, 60-68. | 0.3 | 31 |
| 57 | Iterative reconstruction with correction of the spatially variant fan-beam collimator response in neurotransmission SPET imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 1322-1329. | 3.3 | 30 |
| 58 | Interactive effect of age and APOE- ϵ 4 allele load on white matter myelin content in cognitively normal middle-aged subjects. <i>NeuroImage: Clinical</i> , 2019, 24, 101983. | 1.4 | 30 |
| 59 | Perivascular spaces are associated with tau pathophysiology and synaptic dysfunction in early Alzheimer's continuum. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 135. | 3.0 | 30 |
| 60 | ¹⁸ F-DG PET study of amygdalar activity during facial emotion recognition in schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2010, 260, 69-76. | 1.8 | 29 |
| 61 | Differential brain glucose metabolic patterns in antipsychotic-naïve first-episode schizophrenia with and without auditory verbal hallucinations. <i>Journal of Psychiatry and Neuroscience</i> , 2011, 36, 312-321. | 1.4 | 29 |
| 62 | Proton magnetic resonance spectroscopy in pediatric obsessive-compulsive disorder: Longitudinal study before and after treatment. <i>Psychiatry Research - Neuroimaging</i> , 2012, 201, 17-24. | 0.9 | 29 |
| 63 | Higher prevalence of cerebral white matter hyperintensities in homozygous <i>APOE-ϵ4</i> allele carriers aged 45-75: Results from the ALFA study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 250-261. | 2.4 | 29 |
| 64 | Mechanisms of functional compensation, delineated by eigenvector centrality mapping, across the pathophysiological continuum of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019, 22, 101777. | 1.4 | 29 |
| 65 | White matter hyperintensities mediate gray matter volume and processing speed relationship in cognitively unimpaired participants. <i>Human Brain Mapping</i> , 2020, 41, 1309-1322. | 1.9 | 27 |
| 66 | Characterisation of fan-beam collimators. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001, 28, 144-149. | 2.2 | 26 |
| 67 | Regional gray matter reductions are associated with genetic liability for anxiety and depression: An MRI twin study. <i>Journal of Affective Disorders</i> , 2013, 149, 175-181. | 2.0 | 26 |
| 68 | CSF glial biomarkers YKL40 and sTREM2 are associated with longitudinal volume and diffusivity changes in cognitively unimpaired individuals. <i>NeuroImage: Clinical</i> , 2019, 23, 101801. | 1.4 | 26 |
| 69 | Brain Metabolism during Hallucination-Like Auditory Stimulation in Schizophrenia. <i>PLoS ONE</i> , 2014, 9, e84987. | 1.1 | 25 |
| 70 | Structural Connectivity Alterations Along the Alzheimer's Disease Continuum: Reproducibility Across Two Independent Samples and Correlation with Cerebrospinal Fluid Amyloid- β and Tau. <i>Journal of Alzheimer's Disease</i> , 2018, 61, 1575-1587. | 1.2 | 25 |
| 71 | Combined ¹⁸ F-FDG-PET and diffusion tensor imaging in mesial temporal lobe epilepsy with hippocampal sclerosis. <i>NeuroImage: Clinical</i> , 2016, 12, 976-989. | 1.4 | 24 |
| 72 | Subclinical Atherosclerosis and Brain Metabolism in Middle-Aged Individuals. <i>Journal of the American College of Cardiology</i> , 2021, 77, 888-898. | 1.2 | 24 |

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|----|---|-----|-----------|
| 73 | Functional connectivity of the hippocampus in elderly with mild memory dysfunction carrying the APOE ϵ 4 allele. <i>Neurobiology of Aging</i> , 2008, 29, 1644-1653. | 1.5 | 23 |
| 74 | Depressed Glucose Consumption at Reperfusion following Brain Ischemia does not Correlate with Mitochondrial Dysfunction and Development of Infarction: An in vivo Positron Emission Tomography Study. <i>Current Neurovascular Research</i> , 2009, 6, 82-88. | 0.4 | 23 |
| 75 | Prediction of amyloid pathology in cognitively unimpaired individuals using voxel-wise analysis of longitudinal structural brain MRI. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 72. | 3.0 | 23 |
| 76 | Absolute quantification in dopaminergic neurotransmission SPECT using a Monte Carlo-based scatter correction and fully 3-dimensional reconstruction. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1497-504. | 2.8 | 23 |
| 77 | Proton Magnetic Resonance Spectroscopy Reveals Medial Temporal Metabolic Abnormalities in Adolescents With History of Preterm Birth. <i>Pediatric Research</i> , 2008, 64, 572-577. | 1.1 | 22 |
| 78 | A voxel-based morphometric MRI study of stabilized obsessive-compulsive adolescent patients. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 1863-1869. | 2.5 | 22 |
| 79 | Integration of advanced 3D SPECT modeling into the open-source STIR framework. <i>Medical Physics</i> , 2013, 40, 092502. | 1.6 | 22 |
| 80 | FocusDET, A New Toolbox for SISCOM Analysis. Evaluation of the Registration Accuracy Using Monte Carlo Simulation. <i>Neuroinformatics</i> , 2013, 11, 77-89. | 1.5 | 22 |
| 81 | Ictal \langle EEG \rangle \langle MRI \rangle in localization of epileptogenic area in patients with refractory neocortical focal epilepsy. <i>Epilepsia</i> , 2013, 54, 1688-1698. | 2.6 | 22 |
| 82 | Environmental factors linked to depression vulnerability are associated with altered cerebellar resting-state synchronization. <i>Scientific Reports</i> , 2016, 6, 37384. | 1.6 | 21 |
| 83 | Reproducibility of the Structural Connectome Reconstruction across Diffusion Methods. <i>Journal of Neuroimaging</i> , 2016, 26, 46-57. | 1.0 | 19 |
| 84 | MRI-Based Screening of Preclinical Alzheimer's Disease for Prevention Clinical Trials. <i>Journal of Alzheimer's Disease</i> , 2018, 64, 1099-1112. | 1.2 | 18 |
| 85 | APOE- ϵ 4 risk variant for Alzheimer's disease modifies the association between cognitive performance and cerebral morphology in healthy middle-aged individuals. <i>NeuroImage: Clinical</i> , 2019, 23, 101818. | 1.4 | 18 |
| 86 | Epilepsy causing pupillary hippus: an unusual semiology. <i>Epilepsia</i> , 2011, 52, e93-6. | 2.6 | 17 |
| 87 | DHA intake relates to better cerebrovascular and neurodegeneration neuroimaging phenotypes in middle-aged adults at increased genetic risk of Alzheimer disease. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 1627-1635. | 2.2 | 17 |
| 88 | The influence of a relaxation parameter on SPECT iterative reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 1996, 41, 925-937. | 1.6 | 16 |
| 89 | Longitudinal structural cerebral changes related to core CSF biomarkers in preclinical Alzheimer's disease: A study of two independent datasets. <i>NeuroImage: Clinical</i> , 2018, 19, 190-201. | 1.4 | 16 |
| 90 | Earliest amyloid and tau deposition modulate the influence of limbic networks during closed-loop hippocampal downregulation. <i>Brain</i> , 2020, 143, 976-992. | 3.7 | 16 |

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|-----|--|-----|-----------|
| 91 | Modeling of high-energy contamination in SPECT imaging using Monte Carlo simulation. IEEE Transactions on Nuclear Science, 2006, 53, 198-203. | 1.2 | 15 |
| 92 | Post-surgical changes in brain metabolism detected by magnetic resonance spectroscopy in normal pressure hydrocephalus: results of a pilot study. Journal of Neurology, Neurosurgery and Psychiatry, 2006, 78, 760-763. | 0.9 | 15 |
| 93 | Distinct Cognitive and Brain Morphological Features in Healthy Subjects Unaware of Informant-Reported Cognitive Decline. Journal of Alzheimer's Disease, 2018, 65, 181-191. | 1.2 | 15 |
| 94 | The relation between APOE genotype and cerebral microbleeds in cognitively unimpaired middle- and old-aged individuals. Neurobiology of Aging, 2020, 95, 104-114. | 1.5 | 15 |
| 95 | Development of a variable-radius pinhole SPECT system with a portable gamma camera. Revista Española De Medicina Nuclear, 2011, 30, 286-291. | 0.3 | 14 |
| 96 | Geometrical response modeling in fan-beam collimators-a numerical simulation. IEEE Transactions on Nuclear Science, 2002, 49, 17-24. | 1.2 | 13 |
| 97 | Mild Developmental Foreign Accent Syndrome and Psychiatric Comorbidity: Altered White Matter Integrity in Speech and Emotion Regulation Networks. Frontiers in Human Neuroscience, 2016, 10, 399. | 1.0 | 13 |
| 98 | The protective gene dose effect of the <i>APOE</i> ϵ 2 allele on gray matter volume in cognitively unimpaired individuals. Alzheimer's and Dementia, 2022, 18, 1383-1395. | 0.4 | 13 |
| 99 | Evaluation of algorithms for the registration of ⁹⁹ Tcm-HMPAO brain SPET studies. Nuclear Medicine Communications, 1999, 20, 227-236. | 0.5 | 12 |
| 100 | Nonlinear interaction between <i>APOE</i> ϵ 4 allele load and age in the hippocampal surface of cognitively intact individuals. Human Brain Mapping, 2021, 42, 47-64. | 1.9 | 12 |
| 101 | Brain alterations in the early Alzheimer's continuum with amyloid- β , tau, glial and neurodegeneration CSF markers. Brain Communications, 2022, 4, . | 1.5 | 12 |
| 102 | Evaluation of a cross-validation stopping rule in MLE SPECT reconstruction. Physics in Medicine and Biology, 1998, 43, 1271-1283. | 1.6 | 11 |
| 103 | Assessment of SPM in Perfusion Brain SPECT Studies. A Numerical Simulation Study Using Bootstrap Resampling Methods. IEEE Transactions on Biomedical Engineering, 2008, 55, 1849-1853. | 2.5 | 11 |
| 104 | A continuous emotional task activates the left amygdala in healthy volunteers: 18FDG PET study. Psychiatry Research - Neuroimaging, 2009, 171, 199-206. | 0.9 | 10 |
| 105 | fMRI of the sensorimotor cortex in patients with traumatic brain injury after intensive rehabilitation. Neurological Sciences, 2011, 32, 633-639. | 0.9 | 10 |
| 106 | Association between genetic variants of serotonergic and glutamatergic pathways and the concentration of neurometabolites of the anterior cingulate cortex in paediatric patients with obsessive-compulsive disorder. World Journal of Biological Psychiatry, 2016, 17, 394-404. | 1.3 | 10 |
| 107 | Functional connectivity alterations associated with literacy difficulties in early readers. Brain Imaging and Behavior, 2021, 15, 2109-2120. | 1.1 | 10 |
| 108 | Effect of anatomical variability, reconstruction algorithms and scattered photons on the SPM output of brain PET studies. NeuroImage, 2008, 39, 1121-1128. | 2.1 | 9 |

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|-----|---|-----|-----------|
| 109 | Prefrontal brain metabolites in short-term weight-recovered adolescent anorexia nervosa patients. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 1049-1053. | 2.5 | 9 |
| 110 | Management and Quality Control of Large Neuroimaging Datasets: Developments From the Barcelona ² eta Brain Research Center. <i>Frontiers in Neuroscience</i> , 2021, 15, 633438. | 1.4 | 9 |
| 111 | Evaluating Structural Connectomics in Relation to Different Q-space Sampling Techniques. <i>Lecture Notes in Computer Science</i> , 2013, 16, 671-678. | 1.0 | 9 |
| 112 | Age, sex and APOE- ϵ 4 modify the balance between soluble and fibrillar β -amyloid in non-demented individuals: topographical patterns across two independent cohorts. <i>Molecular Psychiatry</i> , 2022, 27, 2010-2018. | 4.1 | 9 |
| 113 | Altered amygdalar resting-state connectivity in depression is explained by both genes and environment. <i>Human Brain Mapping</i> , 2015, 36, 3761-3776. | 1.9 | 8 |
| 114 | Cognitively unimpaired individuals with a low burden of β pathology have a distinct CSF biomarker profile. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 134. | 3.0 | 8 |
| 115 | Cortical thickness correlates of psychotic experiences: Examining the effect of season of birth using a genetically informative design. <i>Journal of Psychiatric Research</i> , 2014, 56, 144-149. | 1.5 | 7 |
| 116 | APOE- ϵ 4 Shapes the Cerebral Organization in Cognitively Intact Individuals as Reflected by Structural Gray Matter Networks. <i>Cerebral Cortex</i> , 2020, 30, 4110-4120. | 1.6 | 7 |
| 117 | Brain correlates of urban environmental exposures in cognitively unimpaired individuals at increased risk for Alzheimer's disease: A study on Barcelona's population. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12205. | 1.2 | 7 |
| 118 | Genetic Predisposition to Alzheimer's Disease Is Associated with Enlargement of Perivascular Spaces in Centrum Semiovale Region. <i>Genes</i> , 2021, 12, 825. | 1.0 | 7 |
| 119 | Improved image quality in pinhole SPECT by accurate modeling of the point spread function in low magnification systems. <i>Medical Physics</i> , 2015, 42, 703-714. | 1.6 | 6 |
| 120 | Associations Between the Subjective Cognitive Decline-Questionnaire's Scores, Gray Matter Volume, and Amyloid- β Levels. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 1287-1302. | 1.2 | 6 |
| 121 | Birth Weight and Adult IQ, but Not Anxious-Depressive Psychopathology, Are Associated with Cortical Surface Area: A Study in Twins. <i>PLoS ONE</i> , 2015, 10, e0129616. | 1.1 | 6 |
| 122 | Validation of semi-quantitative methods for DAT SPECT: influence of anatomical variability and partial volume effect. <i>Physics in Medicine and Biology</i> , 2015, 60, 5925-5938. | 1.6 | 5 |
| 123 | Effect of BDNF Val66Met on hippocampal subfields volumes and compensatory interaction with APOE- ϵ 4 in middle-age cognitively unimpaired individuals from the ALFA study. <i>Brain Structure and Function</i> , 2020, 225, 2331-2345. | 1.2 | 5 |
| 124 | Genotypic effects of APOE- ϵ 4 on resting-state connectivity in cognitively intact individuals support functional brain compensation. <i>Cerebral Cortex</i> , 2023, 33, 2748-2760. | 1.6 | 5 |
| 125 | P2-505: REGIONAL DISTRIBUTION OF WHITE MATTER HYPERINTENSITY CORRELATES WITH COGNITION IN THE ALFA COHORT. <i>Alzheimer's and Dementia</i> , 2018, 14, P925. | 0.4 | 4 |
| 126 | Sex Differences of Longitudinal Brain Changes in Cognitively Unimpaired Adults. <i>Journal of Alzheimer's Disease</i> , 2020, 76, 1413-1422. | 1.2 | 4 |

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|-----|---|-----|-----------|
| 127 | Left amygdalar activation in deficit syndrome compared with non-deficit subjects with schizophrenia during the control task in a facial emotion recognition paradigm. <i>Psychiatry Research - Neuroimaging</i> , 2012, 203, 109-110. | 0.9 | 3 |
| 128 | Association of years to parent's sporadic onset and risk factors with neural integrity and Alzheimer biomarkers. <i>Neurology</i> , 2020, 95, e2065-e2074. | 1.5 | 3 |
| 129 | Dynamic model of the left ventricle for use in simulation of myocardial perfusion SPECT and gated SPECT. <i>Medical Physics</i> , 2003, 30, 1968-1975. | 1.6 | 2 |
| 130 | Harmonization of amyloid PET scans minimizes the impact of reconstruction parameters on centiloid values. <i>Alzheimer's and Dementia</i> , 2020, 16, e045294. | 0.4 | 2 |
| 131 | Perivascular spaces are associated with tau pathophysiology and synaptic dysfunction in early Alzheimer's continuum. <i>Alzheimer's and Dementia</i> , 2021, 17, . | 0.4 | 2 |
| 132 | Quantification of rat brain SPECT with ¹²³ I-ioflupane: evaluation of different reconstruction methods and image degradation compensations using Monte Carlo simulation. <i>Physics in Medicine and Biology</i> , 2014, 59, 4567-4582. | 1.6 | 1 |
| 133 | Functional magnetic resonance imaging (fMRI) of the sensorimotor cortex in spinal cord injury patient after intensive rehabilitation. <i>Research on Biomedical Engineering</i> , 2020, 36, 129-137. | 1.5 | 1 |
| 134 | Higher levels of the astrocytic marker CSF YKL40 are associated with better memory performance only in amyloid β -positive individuals with subjective cognitive decline. <i>Alzheimer's and Dementia</i> , 2021, 17, . | 0.4 | 1 |
| 135 | Results of a functional magnetic resonance study of the primary auditory cortex (I): general characteristics and individual outcomes. <i>Acta Otorrinolaringologica (English Edition)</i> , 2009, 60, 160-168. | 0.1 | 0 |
| 136 | OC01.04: Analysis of brain structure by MRI voxel based morphometry (VBM) and neurodevelopment in preterm born infants with and without IUGR. <i>Ultrasound in Obstetrics and Gynecology</i> , 2010, 36, 2-2. | 0.9 | 0 |
| 137 | OC01.05: Assessment of brain volumetry and neurodevelopment of preterm born infants with and without IUGR at 12-18 months of age. <i>Ultrasound in Obstetrics and Gynecology</i> , 2010, 36, 2-2. | 0.9 | 0 |
| 138 | Evaluation of the novel 3D SPECT modelling algorithm in the STIR reconstruction framework: Simple vs. full attenuation correction. , 2013, , . | | 0 |
| 139 | Multiple biological pathways associate with cerebral amyloid load in the early Alzheimer's continuum. <i>Alzheimer's and Dementia</i> , 2020, 16, e044733. | 0.4 | 0 |
| 140 | Multiple pathophysiological biomarkers are associated with gray matter volume and cerebral glucose metabolism in the early preclinical Alzheimer's continuum. <i>Alzheimer's and Dementia</i> , 2020, 16, e044808. | 0.4 | 0 |
| 141 | APOE ϵ 4 shapes temporoparietal network properties in middle-aged, cognitively unimpaired individuals: A graph theory analysis. <i>Alzheimer's and Dementia</i> , 2020, 16, e045092. | 0.4 | 0 |
| 142 | Proximity to parental age at onset exacerbates amyloid burden while mental conditions exacerbate neural loss during midlife. <i>Alzheimer's and Dementia</i> , 2020, 16, e045171. | 0.4 | 0 |
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