

Anna Barnes

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,730
citations

34
h-index

60
g-index

89
ext. papers

4,358
ext. citations

5.6
avg, IF

4.74
L-index

#	Paper	IF	Citations
80	FDG PET in the differential diagnosis of parkinsonian disorders. <i>NeuroImage</i> , 2005 , 26, 912-21	7.9	315
79	Abnormal structure of frontostriatal brain systems is associated with aspects of impulsivity and compulsivity in cocaine dependence. <i>Brain</i> , 2011 , 134, 2013-24	11.2	263
78	Attenuation correction synthesis for hybrid PET-MR scanners: application to brain studies. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2332-41	11.7	235
77	Brain anatomy and its relationship to behavior in adults with autism spectrum disorder: a multicenter magnetic resonance imaging study. <i>Archives of General Psychiatry</i> , 2012 , 69, 195-209		195
76	Differential cortical and subcortical activations in learning rotations and gains for reaching: a PET study. <i>Journal of Neurophysiology</i> , 2004 , 91, 924-33	3.2	190
75	Network modulation by the subthalamic nucleus in the treatment of Parkinson disease. <i>NeuroImage</i> , 2006 , 31, 301-7	7.9	131
74	Endogenous human brain dynamics recover slowly following cognitive effort. <i>PLoS ONE</i> , 2009 , 4, e6626	3.7	129
73	Generic aspects of complexity in brain imaging data and other biological systems. <i>NeuroImage</i> , 2009 , 47, 1125-34	7.9	98
72	Associations between blood pressure across adulthood and late-life brain structure and pathology in the neuroscience substudy of the 1946 British birth cohort (Insight 46): an epidemiological study. <i>Lancet Neurology</i> , 2019 , 18, 942-952	24.1	95
71	Caudate nucleus: influence of dopaminergic input on sequence learning and brain activation in Parkinsonism. <i>NeuroImage</i> , 2004 , 21, 1497-507	7.9	92
70	Demonstration of ignition radiation temperatures in indirect-drive inertial confinement fusion hohlraums. <i>Physical Review Letters</i> , 2011 , 106, 085004	7.4	85
69	Influence of compulsivity of drug abuse on dopaminergic modulation of attentional bias in stimulant dependence. <i>Archives of General Psychiatry</i> , 2010 , 67, 632-44		84
68	Monofractal and multifractal dynamics of low frequency endogenous brain oscillations in functional MRI. <i>Human Brain Mapping</i> , 2008 , 29, 791-801	5.9	83
67	Diagnostic accuracy and prognostic value of simultaneous hybrid 18F-fluorodeoxyglucose positron emission tomography/magnetic resonance imaging in cardiac sarcoidosis. <i>European Heart Journal Cardiovascular Imaging</i> , 2018 , 19, 757-767	4.1	74
66	Longitudinal changes in total brain volume in schizophrenia: relation to symptom severity, cognition and antipsychotic medication. <i>PLoS ONE</i> , 2014 , 9, e101689	3.7	68
65	Thalamic stimulation for parkinsonian tremor: correlation between regional cerebral blood flow and physiological tremor characteristics. <i>NeuroImage</i> , 2004 , 21, 608-15	7.9	67
64	The Camino intracranial pressure sensor: is it optimal technology? An internal audit with a review of current intracranial pressure monitoring technologies. <i>Neurosurgery</i> , 2001 , 49, 1158-64; discussion 1164-5	3.2	67

63	Practical PET Respiratory Motion Correction in Clinical PET/MR. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 890-6	8.9	64
62	A comparison of CT- and MR-based attenuation correction in neurological PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 1176-89	8.8	63
61	Endogenous multifractal brain dynamics are modulated by age, cholinergic blockade and cognitive performance. <i>Journal of Neuroscience Methods</i> , 2008 , 174, 292-300	3	62
60	The brain structural disposition to social interaction. <i>European Journal of Neuroscience</i> , 2009 , 29, 2247-53	5.5	61
59	PET Reconstruction With an Anatomical MRI Prior Using Parallel Level Sets. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2189-2199	11.7	60
58	Changes in regional cerebral blood flow with venlafaxine in the treatment of major depression. <i>American Journal of Psychiatry</i> , 2003 , 160, 374-6	11.9	56
57	Brain tissue volume changes following weight gain in adults with anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2011 , 44, 406-11	6.3	51
56	Validation of statistical parametric mapping (SPM) in assessing cerebral lesions: A simulation study. <i>NeuroImage</i> , 1999 , 10, 397-407	7.9	49
55	Brain activity associated with stimulation therapy of the visual borderzone in hemianopic stroke patients. <i>Neurorehabilitation and Neural Repair</i> , 2008 , 22, 136-44	4.7	47
54	UK quantitative WB-DWI technical workgroup: consensus meeting recommendations on optimisation, quality control, processing and analysis of quantitative whole-body diffusion-weighted imaging for cancer. <i>British Journal of Radiology</i> , 2018 , 91, 20170577	3.4	46
53	Investigation into the mechanisms of vagus nerve stimulation for the treatment of intractable epilepsy, using 99mTc-HMPAO SPET brain images. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003 , 30, 301-5	8.8	46
52	Associative encoding of pictures activates the medial temporal lobes. <i>Human Brain Mapping</i> , 1998 , 6, 85-104	5.9	45
51	Cerebral metabolism and perfusion in MR-negative individuals with refractory focal epilepsy assessed by simultaneous acquisition of (18)F-FDG PET and arterial spin labeling. <i>NeuroImage: Clinical</i> , 2016 , 11, 648-657	5.3	44
50	Study protocol: Insight 46 - a neuroscience sub-study of the MRC National Survey of Health and Development. <i>BMC Neurology</i> , 2017 , 17, 75	3.1	42
49	Non-small-cell lung cancer resectability: diagnostic value of PET/MR. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 49-55	8.8	36
48	Power calculations for multicenter imaging studies controlled by the false discovery rate. <i>Human Brain Mapping</i> , 2010 , 31, 1183-95	5.9	36
47	Measurement of the beam asymmetry Γ for π^0 and η photoproduction on the proton at $E_{\text{p}} = 9$ GeV. <i>Physical Review C</i> , 2017 , 95,	2.7	34
46	First results from the GlueX experiment 2016 ,		34

45	Serotonin modulation of cerebral glucose metabolism in normal aging. <i>Neurobiology of Aging</i> , 2004 , 25, 167-74	5.6	32
44	Effects of levodopa infusion on motor activation responses in Parkinson@ disease. <i>Neurology</i> , 2002 , 59, 220-6	6.5	32
43	Association between duration of untreated psychosis and brain morphology in schizophrenia within the Northern Finland 1966 Birth Cohort. <i>Schizophrenia Research</i> , 2010 , 123, 145-52	3.6	31
42	Evolving metabolic changes during the first postoperative year after subthalamotomy. <i>Journal of Neurosurgery</i> , 2003 , 99, 872-8	3.2	29
41	Acute and chronic effects of citalopram on cerebral glucose metabolism in geriatric depression. <i>American Journal of Geriatric Psychiatry</i> , 2002 , 10, 715-23	6.5	29
40	Attenuation correction synthesis for hybrid PET-MR scanners. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 147-54	0.9	28
39	The Neuro/PsyGRID calibration experiment: identifying sources of variance and bias in multicenter MRI studies. <i>Human Brain Mapping</i> , 2012 , 33, 373-86	5.9	25
38	Neuregulin-1 genotype is associated with structural differences in the normal human brain. <i>NeuroImage</i> , 2012 , 59, 2057-61	7.9	23
37	NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. <i>Neuroinformatics</i> , 2018 , 16, 95-115	3.2	21
36	Population-based blood screening for preclinical Alzheimer@ disease in a British birth cohort at age 70. <i>Brain</i> , 2021 , 144, 434-449	11.2	21
35	Cingulate abnormalities associated with PANSS negative scores in first episode schizophrenia. <i>Behavioural Neurology</i> , 2000 , 12, 93-101	3	20
34	Diagnosing Dementia in the Clinical Setting: Can Amyloid PET Provide Additional Value Over Cerebrospinal Fluid?. <i>Journal of Alzheimers Disease</i> , 2016 , 54, 1297-1302	4.3	20
33	Filtration-histogram based magnetic resonance texture analysis (MRTA) for glioma IDH and 1p19q genotyping. <i>European Journal of Radiology</i> , 2019 , 113, 116-123	4.7	20
32	Joint PET-MR respiratory motion models for clinical PET motion correction. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6515-30	3.8	19
31	No association of COMT (Val158Met) genotype with brain structure differences between men and women. <i>PLoS ONE</i> , 2012 , 7, e33964	3.7	18
30	Age-Specific F-FDG Image Processing Pipelines and Analysis Are Essential for Individual Mapping of Seizure Foci in Pediatric Patients with Intractable Epilepsy. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1590-1596	8.9	14
29	Brain structure in different psychosis risk groups in the Northern Finland 1986 birth cohort. <i>Schizophrenia Research</i> , 2014 , 153, 143-9	3.6	14
28	Selective defect of baroreflex blood pressure buffering with intact cardioinhibition in a woman with familial aniridia. <i>Neurology</i> , 1997 , 49, 1705-8	6.5	14

27	Using florbetapir positron emission tomography to explore cerebrospinal fluid cut points and gray zones in small sample sizes. <i>Alzheimers and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2015 , 1, 440-446	5.2	13
26	Assessment of the impact of the scanner-related factors on brain morphometry analysis with Brainvisa. <i>BMC Medical Imaging</i> , 2011 , 11, 23	2.9	13
25	Are power calculations useful? A multicentre neuroimaging study. <i>Human Brain Mapping</i> , 2014 , 35, 3569-37	5.7	12
24	Associations between brain morphology and outcome in schizophrenia in a general population sample. <i>European Psychiatry</i> , 2014 , 29, 456-62	6	12
23	Simultaneous PET-MRI Studies of the Concordance of Atrophy and Hypometabolism in Syndromic Variants of Alzheimer Disease and Frontotemporal Dementia: An Extended Case Series. <i>Journal of Alzheimers Disease</i> , 2015 , 46, 639-53	4.3	12
22	Speed of facial affect intensity recognition as an endophenotype of first-episode psychosis and associated limbic-cortical grey matter systems. <i>Psychological Medicine</i> , 2013 , 43, 591-602	6.9	12
21	Is prematurity associated with adult cognitive outcome and brain structure?. <i>Pediatric Neurology</i> , 2011 , 44, 12-20	2.9	12
20	Clinical Impact of Respiratory Motion Correction in Simultaneous PET/MR, Using a Joint PET/MR Predictive Motion Model. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1467-1473	8.9	10
19	Simultaneous PET/MRI in frontotemporal dementia. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 40, 468-9	8.8	8
18	Noise removal in resting-state and task fMRI: functional connectivity and activation maps. <i>Journal of Neural Engineering</i> , 2020 , 17, 046040	5	8
17	Arterial Spin Labeling Reveals Disrupted Brain Networks and Functional Connectivity in Drug-Resistant Temporal Epilepsy. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 101	3.9	7
16	Verbal learning and memory and their associations with brain morphology and illness course in schizophrenia spectrum psychoses. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2012 , 34, 698-713	7.1	7
15	Effects of level of retrieval success on recall-related frontal and medial temporal lobe activations. <i>Behavioural Neurology</i> , 2001 , 13, 123-31	3	7
14	Incidental findings on brain imaging and blood tests: results from the first phase of Insight 46, a prospective observational substudy of the 1946 British birth cohort. <i>BMJ Open</i> , 2019 , 9, e029502	3	7
13	Hemodynamic impairment as a stimulus for functional brain reorganization. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006 , 26, 1256-62	7.3	6
12	Initial evaluation of a practical PET respiratory motion correction method in clinical simultaneous PET/MRI. <i>EJNMMI Physics</i> , 2014 , 1, A40	4.4	5
11	Modelling the impact of injection time on the bolus shapes in PET-MRI AIF Conversion. <i>EJNMMI Physics</i> , 2014 , 1, A54	4.4	5
10	Competencies and training of radiographers and technologists for PET/MR imaging - a study from the UK MR-PET network. <i>European Journal of Hybrid Imaging</i> , 2020 , 4, 1	1.7	4

9	Perfusion SPECT in cochlear implantation and promontory stimulation. <i>Nuclear Medicine Communications</i> , 2004 , 25, 521-5	1.6	3
8	Practical PET respiratory motion correction in clinical simultaneous PET/MR 2015 ,		2
7	CamBAfx: Workflow Design, Implementation and Application for Neuroimaging. <i>Frontiers in Neuroinformatics</i> , 2009 , 3, 27	3.9	2
6	Acute and Chronic Effects of Citalopram on Cerebral Glucose Metabolism in Geriatric Depression. <i>American Journal of Geriatric Psychiatry</i> , 2002 , 10, 715-723	6.5	2
5	Image reconstruction of mMR PET data using the open source software STIR. <i>EJNMMI Physics</i> , 2014 , 1, A44	4.4	1
4	Uncertainty analysis of MR-PET image registration for precision neuro-PET imaging. <i>NeuroImage</i> , 2021 , 232, 117821	7.9	1
3	Qualification of the Seven Dementias Platform UK PET-MR Scanners for Multicentre Trials 2019 ,		1
2	18F-FDG PET/CT: Brain Imaging 2019 , 23-36		
1	A calibration service for biomedical instrumentation maintenance laboratories. <i>Journal of Medical Engineering and Technology</i> , 1999 , 23, 1-4	1.8	