

Anna Barnes

List of Publications by Year in descending order

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85
papers

4,830
citations

101384

36
h-index

98622

67
g-index

89
all docs

89
docs citations

89
times ranked

7863
citing authors

#	ARTICLE	IF	CITATIONS
1	FDG PET in the differential diagnosis of parkinsonian disorders. <i>NeuroImage</i> , 2005, 26, 912-921.	2.1	385
2	Abnormal structure of frontostriatal brain systems is associated with aspects of impulsivity and compulsivity in cocaine dependence. <i>Brain</i> , 2011, 134, 2013-2024.	3.7	338
3	Attenuation Correction Synthesis for Hybrid PET-MR Scanners: Application to Brain Studies. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2332-2341.	5.4	311
4	Brain Anatomy and Its Relationship to Behavior in Adults With Autism Spectrum Disorder. <i>Archives of General Psychiatry</i> , 2012, 69, 195.	13.8	238
5	Differential Cortical and Subcortical Activations in Learning Rotations and Gains for Reaching: A PET Study. <i>Journal of Neurophysiology</i> , 2004, 91, 924-933.	0.9	215
6	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> , The, 2019, 18, 942-952.	4.9	178
7	Endogenous Human Brain Dynamics Recover Slowly Following Cognitive Effort. <i>PLoS ONE</i> , 2009, 4, e6626.	1.1	161
8	Network modulation by the subthalamic nucleus in the treatment of Parkinson's disease. <i>NeuroImage</i> , 2006, 31, 301-307.	2.1	151
9	Monofractal and multifractal dynamics of low frequency endogenous brain oscillations in functional MRI. <i>Human Brain Mapping</i> , 2008, 29, 791-801.	1.9	127
10	Generic aspects of complexity in brain imaging data and other biological systems. <i>NeuroImage</i> , 2009, 47, 1125-1134.	2.1	126
11	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.	0.5	126
12	Caudate nucleus: influence of dopaminergic input on sequence learning and brain activation in Parkinsonism. <i>NeuroImage</i> , 2004, 21, 1497-1507.	2.1	107
13	Endogenous multifractal brain dynamics are modulated by age, cholinergic blockade and cognitive performance. <i>Journal of Neuroscience Methods</i> , 2008, 174, 292-300.	1.3	96
14	Demonstration of Ignition Radiation Temperatures in Indirect-Drive Inertial Confinement Fusion Hohlraums. <i>Physical Review Letters</i> , 2011, 106, 085004.	2.9	96
15	Influence of Compulsivity of Drug Abuse on Dopaminergic Modulation of Attentional Bias in Stimulant Dependence. <i>Archives of General Psychiatry</i> , 2010, 67, 632.	13.8	94
16	Longitudinal Changes in Total Brain Volume in Schizophrenia: Relation to Symptom Severity, Cognition and Antipsychotic Medication. <i>PLoS ONE</i> , 2014, 9, e101689.	1.1	92
17	PET Reconstruction With an Anatomical MRI Prior Using Parallel Level Sets. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2189-2199.	5.4	82
18	Thalamic stimulation for parkinsonian tremor: correlation between regional cerebral blood flow and physiological tremor characteristics. <i>NeuroImage</i> , 2004, 21, 608-615.	2.1	78

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19	Practical PET Respiratory Motion Correction in Clinical PET/MR. <i>Journal of Nuclear Medicine</i> , 2015, 56, 890-896.	2.8	76
20	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, 1158-1165.	0.6	75
21	A comparison of CT- and MR-based attenuation correction in neurological PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014, 41, 1176-1189.	3.3	70
22	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.	1.0	70
23	Brain tissue volume changes following weight gain in adults with anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2011, 44, 406-411.	2.1	69
24	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.	1.4	67
25	The brain structural disposition to social interaction. <i>European Journal of Neuroscience</i> , 2009, 29, 2247-2252.	1.2	66
26	Brain Activity Associated With Stimulation Therapy of the Visual Borderzone in Hemianopic Stroke Patients. <i>Neurorehabilitation and Neural Repair</i> , 2008, 22, 136-144.	1.4	64
27	Study protocol: Insight 46 – a neuroscience sub-study of the MRC National Survey of Health and Development. <i>BMC Neurology</i> , 2017, 17, 75.	0.8	64
28	Changes in Regional Cerebral Blood Flow With Venlafaxine in the Treatment of Major Depression. <i>American Journal of Psychiatry</i> , 2003, 160, 374-376.	4.0	62
29	Validation of Statistical Parametric Mapping (SPM) in Assessing Cerebral Lesions: A Simulation Study. <i>NeuroImage</i> , 1999, 10, 397-407.	2.1	59
30	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, 301-305.	3.3	54
31	OUP accepted manuscript. <i>Brain</i> , 2021, 144, 434-449.	3.7	54
32	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.	3.3	49
33	Measurement of the beam asymmetry A_{\perp} for ${}^{\infty}\text{C}$ and ${}^{\infty}\text{p}$ photoproduction on the proton at $E^{\infty}=9$ GeV. <i>Physical Review C</i> , 2017, 95, .	1.1	49
34	Associative encoding of pictures activates the medial temporal lobes. <i>Human Brain Mapping</i> , 1998, 6, 85-104.	1.9	47
35	Power calculations for multicenter imaging studies controlled by the false discovery rate. <i>Human Brain Mapping</i> , 2010, 31, 1183-1195.	1.9	43
36	First results from the GlueX experiment. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	40

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37	NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. <i>Neuroinformatics</i> , 2018, 16, 95-115.	1.5	40
38	Effects of levodopa infusion on motor activation responses in Parkinson's disease. <i>Neurology</i> , 2002, 59, 220-226.	1.5	37
39	Association between duration of untreated psychosis and brain morphology in schizophrenia within the Northern Finland 1966 Birth Cohort. <i>Schizophrenia Research</i> , 2010, 123, 145-152.	1.1	35
40	Serotonin modulation of cerebral glucose metabolism in normal aging. <i>Neurobiology of Aging</i> , 2004, 25, 167-174.	1.5	34
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.	0.6	32
42	Evolving metabolic changes during the first postoperative year after subthalamotomy. <i>Journal of Neurosurgery</i> , 2003, 99, 872-878.	0.9	31
43	Attenuation Correction Synthesis for Hybrid PET-MR Scanners. <i>Lecture Notes in Computer Science</i> , 2013, 16, 147-154.	1.0	31
44	Neuregulin-1 genotype is associated with structural differences in the normal human brain. <i>NeuroImage</i> , 2012, 59, 2057-2061.	2.1	30
45	The neuro/PsyGRID calibration experiment. <i>Human Brain Mapping</i> , 2012, 33, 373-386.	1.9	30
46	Filtration-histogram based magnetic resonance texture analysis (MRTA) for glioma IDH and 1p19q genotyping. <i>European Journal of Radiology</i> , 2019, 113, 116-123.	1.2	30
47	Joint PET-MR respiratory motion models for clinical PET motion correction. <i>Physics in Medicine and Biology</i> , 2016, 61, 6515-6530.	1.6	27
48	Cingulate Abnormalities Associated with PANSS Negative Scores in First Episode Schizophrenia. <i>Behavioural Neurology</i> , 2000, 12, 93-101.	1.1	22
49	Noise removal in resting-state and task fMRI: functional connectivity and activation maps. <i>Journal of Neural Engineering</i> , 2020, 17, 046040.	1.8	22
50	Diagnosing Dementia in the Clinical Setting: Can Amyloid PET Provide Additional Value Over Cerebrospinal Fluid?. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1297-1302.	1.2	21
51	Age-Specific ¹⁸ 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.	2.8	20
52	No Association of COMT (Val158Met) Genotype with Brain Structure Differences between Men and Women. <i>PLoS ONE</i> , 2012, 7, e33964.	1.1	18
53	Acute and Chronic Effects of Citalopram on Cerebral Glucose Metabolism in Geriatric Depression. <i>American Journal of Geriatric Psychiatry</i> , 2002, 10, 715-723.	0.6	17
54	Assessment of the impact of the scanner-related factors on brain morphometry analysis with Brainvisa. <i>BMC Medical Imaging</i> , 2011, 11, 23.	1.4	17

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55	Brain structure in different psychosis risk groups in the Northern Finland 1986 Birth Cohort. <i>Schizophrenia Research</i> , 2014, 153, 143-149.	1.1	17
56	Using florbetapir positron emission tomography to explore cerebrospinal fluid cut points and gray zones in small sample sizes. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2015, 1, 440-446.	1.2	16
57	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.	2.8	16
58	Arterial Spin Labeling Reveals Disrupted Brain Networks and Functional Connectivity in Drug-Resistant Temporal Epilepsy. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 101.	1.3	16
59	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.	0.8	16
60	Selective defect of baroreflex blood pressure buffering with intact cardioinhibition in a woman with familial aniridia. <i>Neurology</i> , 1997, 49, 1705-1708.	1.5	15
61	Simultaneous PET-MRI Studies of the Concordance of Atrophy and Hypometabolism in Syndromic Variants of Alzheimer's Disease and Frontotemporal Dementia: An Extended Case Series. <i>Journal of Alzheimer's Disease</i> , 2015, 46, 639-653.	1.2	15
62	Perfusion SPECT in cochlear implantation and promontory stimulation. <i>Nuclear Medicine Communications</i> , 2004, 25, 521-525.	0.5	14
63	Is Prematurity Associated With Adult Cognitive Outcome and Brain Structure?. <i>Pediatric Neurology</i> , 2011, 44, 12-20.	1.0	13
64	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.	2.7	13
65	Associations between brain morphology and outcome in schizophrenia in a general population sample. <i>European Psychiatry</i> , 2014, 29, 456-462.	0.1	13
66	Are power calculations useful? A multicentre neuroimaging study. <i>Human Brain Mapping</i> , 2014, 35, 3569-3577.	1.9	12
67	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.	0.8	11
68	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.	0.6	10
69	Simultaneous PET/MRI in frontotemporal dementia. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 468-469.	3.3	9
70	Effects of Level of Retrieval Success on Recall-Related Frontal and Medial Temporal Lobe Activations. <i>Behavioural Neurology</i> , 2002, 13, 123-131.	1.1	8
71	Hemodynamic Impairment as a Stimulus for Functional Brain Reorganization. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1256-1262.	2.4	8
72	Uncertainty analysis of MR-PET image registration for precision neuro-PET imaging. <i>NeuroImage</i> , 2021, 232, 117821.	2.1	8

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73	Modelling the impact of injection time on the bolus shapes in PET-MRI AIF Conversion. EJNMMI Physics, 2014, 1, A54.	1.3	6
74	Initial evaluation of a practical PET respiratory motion correction method in clinical simultaneous PET/MRI. EJNMMI Physics, 2014, 1, A40.	1.3	5
75	CamBAfx: Workflow design, implementation and application for neuroimaging. Frontiers in Neuroinformatics, 2009, 3, 27.	1.3	3
76	Practical PET respiratory motion correction in clinical simultaneous PET/MR. , 2015, , .		3
77	A calibration service for biomedical instrumentation maintenance laboratories. Journal of Medical Engineering and Technology, 1999, 23, 1-4.	0.8	2
78	Exploiting an MRI derived arterial input function to improve the PET simultaneous estimation method: Validation of assumptions. , 2014, , .		2
79	Effect of restricted image data on automated coregistration algorithms: A method of investigation. NeuroImage, 1996, 3, S48.	2.1	1
80	Image reconstruction of mMR PET data using the open source software STIR. EJNMMI Physics, 2014, 1, A44.	1.3	1
81	Qualification of the Seven Dementias Platform UK PET-MR Scanners for Multicentre Trials. , 2019, , .		1
82	Modulation of the fractal properties of low frequency endogenous brain oscillations in functional MRI by a working memory task.. , 2008, , .		0
83	Structural MRI in the 1986 Northern Finland Birth Cohort. International Clinical Psychopharmacology, 2011, 26, e140-e141.	0.9	0
84	Publisher's Note: Demonstration of Ignition Radiation Temperatures in Indirect-Drive Inertial Confinement Fusion Hohlraums [Phys. Rev. Lett.106, 085004 (2011)]. Physical Review Letters, 2011, 106, .	2.9	0
85	Perfusion-based Brain Connectivity: PASL vs pCASL. , 2019, , .		0