Deborah Pareto

List of Publications by Year
in descending order

82 papers	2,691 citations	201575 27 h-index	206029 48 g-index
86 all docs	86 docs citations	86 times ranked	3901 citing authors

#	Article	IF	Citations
1	Improving automated multiple sclerosis lesion segmentation with a cascaded 3D convolutional neural network approach. NeuroImage, 2017, 155, 159-168.	2.1	287
2	MAGNIMS consensus recommendations on the use of brain and spinal cord atrophy measures in clinical practice. Nature Reviews Neurology, 2020, 16, 171-182.	4.9	150
3	Biodistribution of Amino-Functionalized Diamond Nanoparticles. *In Vivo* Studies Based on ^{18}F Radionuclide Emission. ACS Nano, 2011, 5, 5552-5559.	7.3	138
4	Imaging Brain Inflammation with [11C]PK11195 by PET and Induction of the Peripheral-Type Benzodiazepine Receptor after Transient Focal Ischemia in Rats. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1975-1986.	2.4	137
5	Structural MRI correlates of cognitive impairment in patients with multiple sclerosis. Human Brain Mapping, 2016, 37, 1627-1644.	1.9	99
6	Unique distribution of aromatase in the human brain: In vivo studies with PET and [*N*‐methyl‐^{11}C]vorozole. Synapse, 2010, 64, 801-807.	0.6	98
7	One-shot domain adaptation in multiple sclerosis lesion segmentation using convolutional neural networks. NeuroImage: Clinical, 2019, 21, 101638.	1.4	91
8	6-[18F]Fluoro-A-85380, a new PET tracer for the nicotinic acetylcholine receptor: Studies in the human brain and in vivo demonstration of specific binding in white matter. Synapse, 2004, 53, 184-189.	0.6	89
9	Neurofilament light chain level is a weak risk factor for the development of MS. Neurology, 2016, 87, 1076-1084.	1.5	85
10	A toolbox for multiple sclerosis lesion segmentation. Neuroradiology, 2015, 57, 1031-1043.	1.1	76
11	In vivo evaluation of amyloid deposition and brain glucose metabolism of 5XFAD mice using positron emission tomography. Neurobiology of Aging, 2013, 34, 1790-1798.	1.5	69
12	Value of 3T Susceptibility-Weighted Imaging in the Diagnosis of Multiple Sclerosis. American Journal of Neuroradiology, 2020, 41, 1001-1008.	1.2	68
13	Generic acquisition protocol for quantitative MRI of the spinal cord. Nature Protocols, 2021, 16, 4611-4632.	5.5	65
14	Brain Atrophy in Multiple Sclerosis. Neuroimaging Clinics of North America, 2017, 27, 289-300.	0.5	64
15	Automated tissue segmentation of MR brain images in the presence of white matter lesions. Medical Image Analysis, 2017, 35, 446-457.	7.0	55
16	Reduced dynamics of functional connectivity and cognitive impairment in multiple sclerosis. Multiple Sclerosis Journal, 2020, 26, 476-488.	1.4	54
17	Aromatase Imaging with [*N*-Methyl-^{11}C]Vorozole PET in Healthy Men and Women. Journal of Nuclear Medicine, 2015, 56, 580-585.	2.8	46
18	Multiple Sclerosis Lesion Synthesis in MRI Using an Encoder-Decoder U-NET. IEEE Access, 2019, 7, 25171-25184.	2.6	46

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19	The long-term outcomes of CIS patients in the Barcelona inception cohort: Looking back to recognize aggressive MS. Multiple Sclerosis Journal, 2020, 26, 1658-1669.	1.4	41
20	A fully convolutional neural network for new T2-w lesion detection in multiple sclerosis. NeuroImage: Clinical, 2020, 25, 102149.	1.4	40
21	A supervised framework with intensity subtraction and deformation field features for the detection of new T2-w lesions in multiple sclerosis. NeuroImage: Clinical, 2018, 17, 607-615.	1.4	39
22	Quantification of dopaminergic neurotransmission SPECT studies with 123I-labelled radioligands. A comparison between different imaging systems and data acquisition protocols using Monte Carlo simulation. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 1334-1342.	3.3	38
23	Synthesis and PET studies of [11C-cyano]letrozole (Femara), an aromatase inhibitor drug. Nuclear Medicine and Biology, 2009, 36, 215-223.	0.3	33
24	Modeling and analysis of PET studies with norepinephrine transporter ligands: the search for a reference region. Nuclear Medicine and Biology, 2005, 32, 531-542.	0.3	32
25	Quantifying brain tissue volume in multiple sclerosis with automated lesion segmentation and filling. NeuroImage: Clinical, 2015, 9, 640-647.	1.4	31
26	Iterative reconstruction with correction of the spatially variant fan-beam collimator response in neurotransmission SPET imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2003, 30, 1322-1329.	3.3	30
27	Improved Automatic Detection of New T2 Lesions in Multiple Sclerosis Using Deformation Fields. American Journal of Neuroradiology, 2016, 37, 1816-1823.	1.2	30
28	Fluordeoxyglucose-PET study in first-episode schizophrenic patients during the hallucinatory state, after remission and during linguistic–auditory activation. Nuclear Medicine Communications, 2008, 29, 894-900.	0.5	29
29	Synthesis and evaluation of inhaled [11C]butane and intravenously injected [11C]acetone as potential radiotracers for studying inhalant abuse. Nuclear Medicine and Biology, 2005, 32, 201-208.	0.3	28
30	Predictive value of early brain atrophy on response in patients treated with interferon β. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e132.	3.1	28
31	Ratio of T1-Weighted to T2-Weighted Signal Intensity as a Measure of Tissue Integrity: Comparison with Magnetization Transfer Ratio in Patients with Multiple Sclerosis. American Journal of Neuroradiology, 2020, 41, 461-463.	1.2	27
32	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. Scientific Data, 2021, 8, 219.	2.4	27
33	Characterisation of fan-beam collimators. European Journal of Nuclear Medicine and Molecular Imaging, 2001, 28, 144-149.	2.2	26
34	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. Current Neurovascular Research, 2009, 6, 82-88.	0.4	23
35	Lesion filling effect in regional brain volume estimations: a study in multiple sclerosis patients with low lesion load. Neuroradiology, 2016, 58, 467-474.	1.1	23
36	Absolute quantification in dopaminergic neurotransmission SPECT using a Monte Carlo-based scatter correction and fully 3-dimensional reconstruction. Journal of Nuclear Medicine, 2005, 46, 1497-504.	2.8	23

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37	Usefulness of brain perfusion CT in focal‑onset status epilepticus. Epilepsia, 2019, 60, 1317-1324.	2.6	22
38	Brain Volume Loss During the First Year of Interferon‑Beta Treatment in Multiple Sclerosis: Baseline Inflammation and Regional Brain Volume Dynamics. Journal of Neuroimaging, 2016, 26, 532-538.	1.0	21
39	Grey matter atrophy is associated with disability increase in natalizumab-treated patients. Multiple Sclerosis Journal, 2017, 23, 556-566.	1.4	21
40	Manual and automated tissue segmentation confirm the impact of thalamus atrophy on cognition in multiple sclerosis: A multicenter study. NeuroImage: Clinical, 2021, 29, 102549.	1.4	20
41	Simultaneous Dual-tracer PET Imaging of the Rat Brain and its Application in the Study of Cerebral Ischemia. Molecular Imaging and Biology, 2011, 13, 500-510.	1.3	19
42	Evaluating the effect of multiple sclerosis lesions on automatic brain structure segmentation. NeuroImage: Clinical, 2017, 15, 228-238.	1.4	19
43	In Vivo Imaging of Brain Aromatase in Female Baboons: [^{11}C]Vorozole Kinetics and Effect of the Menstrual Cycle. Molecular Imaging, 2013, 12, 7290.2013.00068.	0.7	18
44	Brain regional volume estimations with NeuroQuant and FIRST: a study in patients with a clinically isolated syndrome. Neuroradiology, 2019, 61, 667-674.	1.1	15
45	Improvement of cognitive flexibility and cingulate blood flow correlates after atypical antipsychotic treatment in drug-naive patients with first-episode schizophrenia. Psychiatry Research - Neuroimaging, 2011, 194, 205-211.	0.9	14
46	Classic Block Design "Pseudo"‑"Resting"‑State fMRI Changes After a Neurorehabilitation Program in Patients with Multiple Sclerosis. Journal of Neuroimaging, 2018, 28, 313-319.	1.0	14
47	T1/T2-weighted ratio in multiple sclerosis: A longitudinal study with clinical associations. NeuroImage: Clinical, 2022, 34, 102967.	1.4	13
48	Exploring in vivo multiple sclerosis brain microstructural damage through T1w/T2w ratio: a multicentre study. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, 741-752.	0.9	13
49	Relationship of estrogen synthesis capacity in the brain with obesity and self-control in men and women. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22962-22966.	3.3	12
50	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
51	In vivo molecular imaging of the GABA/benzodiazepine receptor complex in the aged rat brain. Neurobiology of Aging, 2012, 33, 1457-1465.	1.5	11
52	MAGNIMS recommendations for harmonization of MRI data in MS multicenter studies. NeuroImage: Clinical, 2022, 34, 102972.	1.4	11
53	A validation study of manual atrophy measures in patients with Multiple Sclerosis. Neuroradiology, 2020, 62, 955-964.	1.1	10
54	CSF chitinase 3-like 1 is associated with iron rims in patients with a first demyelinating event. Multiple Sclerosis Journal, 2022, 28, 71-81.	1.4	10

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55	Cortical metabolic and structural differences in patients with chronic migraine. An exploratory 18FDG-PET and MRI study. Journal of Headache and Pain, 2021, 22, 75.	2.5	10
56	Opportunities for Understanding MS Mechanisms and Progression With MRI Using Large-Scale Data Sharing and Artificial Intelligence. Neurology, 2021, 97, 989-999.	1.5	10
57	Erythrocytes labeled with [^{18}F]SFB as an alternative to radioactive CO for quantification of blood volume with PET. Contrast Media and Molecular Imaging, 2013, 8, 375-381.	0.4	9
58	Measurement of Cortical Thickness and Volume of Subcortical Structures in Multiple Sclerosis: Agreement between 2D Spin-Echo and 3D MPRAGE T1-Weighted Images. American Journal of Neuroradiology, 2017, 38, 250-256.	1.2	9
59	[11C]-DASB microPET imaging in the aged rat: Frontal and meso-thalamic increases in serotonin transporter binding. Experimental Gerontology, 2011, 46, 1020-1025.	1.2	8
60	Kinetic Analysis of [^{11}C]Vorozole Binding in the Human Brain with Positron Emission Tomography. Molecular Imaging, 2014, 13, 7290.2014.00004.	0.7	8
61	Human Cognitive Ability Is Modulated by Aromatase Availability in the Brain in a Sex-Specific Manner. Frontiers in Neuroscience, 2020, 14, 565668.	1.4	8
62	Quantification of Cervical Cord Cross-Sectional Area: Which Acquisition, Vertebra Level, and Analysis Software? A Multicenter Repeatability Study on a Traveling Healthy Volunteer. Frontiers in Neurology, 2021, 12, 693333.	1.1	8
63	Serum neurofilament light chain levels predict long-term disability progression in patients with progressive multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, 732-740.	0.9	8
64	Positron Emission Tomographic Imaging of the Cannabinoid Type 1 Receptor System with [11C]OMAR ([11C]JHU75528): Improvements in Image Quantification Using Wild-Type and Knockout Mice. Molecular Imaging, 2011, 10, 7290.2011.00019.	0.7	7
65	Evaluation of Hypoxic Tissue Dynamics with 18F-FMISO PET in a Rat Model of Permanent Cerebral Ischemia. Molecular Imaging and Biology, 2011, 13, 558-564.	1.3	7
66	Brain atrophy 15 years after CIS: Baseline and follow-up clinico-radiological correlations. Multiple Sclerosis Journal, 2018, 24, 721-727.	1.4	6
67	Magnetic resonance imaging findings in focal-onset status epilepticus. European Journal of Neurology, 2022, 29, 3-11.	1.7	5
68	Initial Studies with 11C-Vorozole PET Detect Overexpression of Intratumoral Aromatase in Breast Cancer. Journal of Nuclear Medicine, 2020, 61, 807-813.	2.8	4
69	Assessment of automatic decision-support systems for detecting active T2 lesions in multiple sclerosis patients. Multiple Sclerosis Journal, 2022, 28, 1209-1218.	1.4	4
70	T1/T2-weighted ratio is a surrogate marker of demyelination in multiple sclerosis – Commentary. Multiple Sclerosis Journal, 2022, 28, 357-358.	1.4	4
71	Assessment of brain volumes obtained from MP-RAGE and MP2RAGE images, quantified using different segmentation methods. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 757-767.	1.1	3
72	Sex Differences and Commonalities in the Impact of a Palatable Meal on Thalamic and Insular Connectivity. Nutrients, 2020, 12, 1627.	1.7	3

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73	Development and evaluation of a manual segmentation protocol for deep grey matter in multiple sclerosis: Towards accelerated semi-automated references. NeuroImage: Clinical, 2021, 30, 102659.	1.4	3
74	An SPM12 extension for multiple sclerosis lesion segmentation. , 2016, , .		2
75	Adding brain volume measures into response criteria in multiple sclerosis: the RÃo-4 score. Neuroradiology, 2021, 63, 1031-1041.	1.1	2
76	Quantitative comparison of subcortical and ventricular volumetry derived from MPRAGE and MP2RAGE images using different brain morphometry software. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 903-914.	1.1	2
77	Prognosis of a second clinical event from baseline MRI in patients with a CIS: a multicenter study using a machine learning approach. Neuroradiology, 2022, 64, 1383-1390.	1.1	2
78	Optimization of [^{11} C]Raclopride Positron Emission Tomographic Rat Studies: Comparison of Methods for Image Quantification. Molecular Imaging, 2013, 12, 7290.2012.00040.	0.7	1
79	Regional Distribution of Aromatase in the Human Brain. , 2012, , 89-99.		1
80	Spinal cord grey matter atrophy in Multiple Sclerosis clinical practice. Neuroscience Informatics, 2022, 2, 100071.	2.8	1
81	Testing the Food Experience in Healthy Human Volunteers: a Proof-of-Concept Study. Journal of Gastrointestinal and Liver Diseases, 2020, 29, 65-68.	0.5	0
82	Can Cognitive training Reignite Compensatory Mechanisms in Advanced Multiple Sclerosis Patients? An Explorative Morphological Network Approach. Neuroscience, 2022, , .	1.1	0