Alessandra Bertoldo

List of Publications by Year in descending order

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	126858	182361
3,475	33	51
citations	h-index	g-index
100	100	5100
132	132	5198
docs citations	times ranked	citing authors
	3,475 citations 132 docs citations	3,475 33 citations h-index 132 132 docs citations 132 times ranked

#	Article	IF	CITATIONS
1	Microglial Activity in People at Ultra High Risk of Psychosis and in Schizophrenia: An [¹¹ C]PBR28 PET Brain Imaging Study. American Journal of Psychiatry, 2016, 173, 44-52.	4.0	382
2	Inflammatory intrathecal profiles and cortical damage in multiple sclerosis. Annals of Neurology, 2018, 83, 739-755.	2.8	219
3	The methodology of TSPO imaging with positron emission tomography. Biochemical Society Transactions, 2015, 43, 586-592.	1.6	186
4	Kinetic Modeling without Accounting for the Vascular Component Impairs the Quantification of [¹¹ C]PBR28 Brain PET Data. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1060-1069.	2.4	112
5	Novel Reference Region Model Reveals Increased Microglial and Reduced Vascular Binding of ¹¹ C-(<i>R</i>)-PK11195 in Patients with Alzheimer's Disease. Journal of Nuclear Medicine, 2008, 49, 1249-1256.	2.8	81
6	Cortical Diffusion-Tensor Imaging Abnormalities in Multiple Sclerosis: A 3-year Longitudinal Study. Radiology, 2011, 261, 891-898.	3.6	78
7	Muscle glucose transport and phosphorylation in type 2 diabetic, obese nondiabetic, and genetically predisposed individuals. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E92-E100.	1.8	72
8	Dynamic ¹¹ C-PiB PET Shows Cerebrospinal Fluid Flow Alterations in Alzheimer Disease and Multiple Sclerosis. Journal of Nuclear Medicine, 2019, 60, 1452-1460.	2.8	64
9	Similar white matter changes in schizophrenia and bipolar disorder: A tract-based spatial statistics study. PLoS ONE, 2017, 12, e0178089.	1.1	63
10	MENGA: A New Comprehensive Tool for the Integration of Neuroimaging Data and the Allen Human Brain Transcriptome Atlas. PLoS ONE, 2016, 11, e0148744.	1.1	62
11	Evaluation of compartmental and spectral analysis models of [/sup 18/F]FDG kinetics for heart and brain studies with PET. IEEE Transactions on Biomedical Engineering, 1998, 45, 1429-1448.	2.5	55
12	Automatic selection of arterial input function on dynamic contrast-enhanced MR images. Computer Methods and Programs in Biomedicine, 2011, 104, e148-e157.	2.6	51
13	Kinetic modelling of [¹¹ C]PBR28 for 18 kDa translocator protein PET data: A validation study of vascular modelling in the brain using XBD173 and tissue analysis. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1227-1242.	2.4	51
14	Interactions Between Delivery, Transport, and Phosphorylation of Glucose in Governing Uptake Into Human Skeletal Muscle. Diabetes, 2006, 55, 3028-3037.	0.3	50
15	A multi-element psychosocial intervention for early psychosis (GET UP PIANO TRIAL) conducted in a catchment area of 10 million inhabitants: study protocol for a pragmatic cluster randomized controlled trial. Trials, 2012, 13, 73.	0.7	47
16	Integrating EEG and fMRI in epilepsy. NeuroImage, 2011, 54, 2719-2731.	2.1	46
17	The Predictive Power of Brain mRNA Mappings for <i>in vivo</i> Protein Density: A Positron Emission Tomography Correlation Study. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 827-835.	2.4	44
18	Covariance statistics and network analysis of brain PET imaging studies. Scientific Reports, 2019, 9, 2496.	1.6	42

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19	[11C]-MP4A PET Cholinergic Measurements in Amnestic Mild Cognitive Impairment, Probable Alzheimer's Disease, and Dementia with Lewy Bodies: A Bayesian Method and Voxel-Based Analysis. Journal of Alzheimer's Disease, 2012, 31, 387-399.	1.2	41
20	TMS-evoked long-lasting artefacts: A new adaptive algorithm for EEG signal correction. Clinical Neurophysiology, 2017, 128, 1563-1574.	0.7	41
21	A robust method for investigating thalamic white matter tracts after traumatic brain injury. NeuroImage, 2012, 63, 779-788.	2.1	40
22	SigMate: A Matlab-based automated tool for extracellular neuronal signal processing and analysis. Journal of Neuroscience Methods, 2012, 207, 97-112.	1.3	40
23	Interactions Among Glucose Delivery, Transport, and Phosphorylation That Underlie Skeletal Muscle Insulin Resistance in Obesity and Type 2 Diabetes: Studies With Dynamic PET Imaging. Diabetes, 2014, 63, 1058-1068.	0.3	39
24	Estimation of Component and Parameter Distributions in Spectral Analysis. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 1211-1222.	2.4	38
25	Automatic selection of resting-state networks with functional magnetic resonance imaging. Frontiers in Neuroscience, 2013, 7, 72.	1.4	38
26	Advancing Our Understanding of the Glucose System via Modeling: A Perspective. IEEE Transactions on Biomedical Engineering, 2014, 61, 1577-1592.	2.5	38
27	Deriving physiological information from PET images: from SUV to compartmental modelling. Clinical and Translational Imaging, 2014, 2, 239-251.	1.1	38
28	Generalization of endothelial modelling of TSPO PET imaging: Considerations on tracer affinities. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 874-885.	2.4	38
29	Multiparametric quantitative MRI assessment of thigh muscles in limbâ€girdle muscular dystrophy 2A and 2B. Muscle and Nerve, 2018, 58, 550-558.	1.0	37
30	Glucose Transport and Phosphorylation in Skeletal Muscle in Obesity: Insight from a Muscle-Specific Positron Emission Tomography Model. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 1271-1279.	1.8	36
31	Nonlinear Stochastic Regularization to Characterize Tissue Residue Function in Bolus-Tracking MRI: Assessment and Comparison With SVD, Block-Circulant SVD, and Tikhonov. IEEE Transactions on Biomedical Engineering, 2009, 56, 1287-1297.	2.5	36
32	Heterogeneity of Cortical Lesions in Multiple Sclerosis: An MRI Perfusion Study. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 457-463.	2.4	36
33	Plasma radiometabolite correction in dynamic PET studies: Insights on the available modeling approaches. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 326-339.	2.4	36
34	Effects of perfusion on DTI and DKI estimates in the skeletal muscle. Magnetic Resonance in Medicine, 2017, 78, 233-246.	1.9	36
35	Sparse DCM for whole-brain effective connectivity from resting-state fMRI data. NeuroImage, 2020, 208, 116367.	2.1	35
36	Weight Loss-Induced Plasticity of Glucose Transport and Phosphorylation in the Insulin Resistance of Obesity and Type 2 Diabetes. Diabetes, 2003, 52, 1619-1626.	0.3	34

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37	Investigation of brain hemodynamic changes induced by active and passive movements: A combined arterial spin labeling–BOLD fMRI study. Journal of Magnetic Resonance Imaging, 2014, 40, 937-948.	1.9	32
38	White matter metabolism differentiates schizophrenia and bipolar disorder: a preliminary PET study. Psychiatry Research - Neuroimaging, 2013, 214, 410-414.	0.9	31
39	Insulin Resistance Is Associated With Enhanced Brain Glucose Uptake During Euglycemic Hyperinsulinemia: A Large-Scale PET Cohort. Diabetes Care, 2021, 44, 788-794.	4.3	31
40	Time-frequency analysis of short-lasting modulation of EEG induced by TMS during wake, sleep deprivation and sleep. Frontiers in Human Neuroscience, 2013, 7, 767.	1.0	29
41	A Spectral Analysis Approach for Determination of Regional Rates of Cerebral Protein Synthesis with the L-[1-‹sup>11C]leucine PET Method. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1460-1476.	2.4	28
42	Spectral Analysis of Dynamic PET Studies: A Review of 20 Years of Method Developments and Applications. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-15.	0.7	28
43	Time-frequency analysis of short-lasting modulation of EEG induced by intracortical and transcallosal paired TMS over motor areas. Journal of Neurophysiology, 2012, 107, 2475-2484.	0.9	27
44	"Population―Approach Improves Parameter Estimation of Kinetic Models From Dynamic PET Data. IEEE Transactions on Medical Imaging, 2004, 23, 297-306.	5.4	26
45	Voxel-Based Estimation of Kinetic Model Parameters of the <scp>l</scp> -[1- ¹¹ C]Leucine PET Method for Determination of Regional Rates of Cerebral Protein Synthesis: Validation and Comparison with Region-of-Interest-Based Methods. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1317-1331	2.4	26
46	Serum ferritin is associated with non-alcoholic fatty liver disease and decreased l'-cell function in non-diabetic men and women. Journal of Diabetes and Its Complications, 2014, 28, 177-184.	1.2	26
47	An automated method for detection of layer activation order in information processing pathway of rat barrel cortex under mechanical whisker stimulation. Journal of Neuroscience Methods, 2011, 196, 141-150.	1.3	25
48	Effect of median-nerve electrical stimulation on BOLD activity in acute ischemic stroke patients. Clinical Neurophysiology, 2012, 123, 142-153.	0.7	25
49	Modelling hemodynamic response function in epilepsy. Clinical Neurophysiology, 2013, 124, 2108-2118.	0.7	23
50	A robust deconvolution method to disentangle multiple water pools in diffusion MRI. NMR in Biomedicine, 2018, 31, e3965.	1.6	23
51	Frequency and time-frequency analysis of intraoperative ECoG during awake brain stimulation. Frontiers in Neuroengineering, 2013, 6, 1.	4.8	22
52	Quantitative Assessment of Glucose Transport in Human Skeletal Muscle: Dynamic Positron Emission Tomography Imaging of [O-Methyl-11C]3-O-Methyl-d-Glucose. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 1752-1759.	1.8	21
53	Measuring specific receptor binding of a PET radioligand in human brain without pharmacological blockade: The genomic plot. NeuroImage, 2016, 130, 1-12.	2.1	21
54	Brain PET and functional MRI: why simultaneously using hybrid PET/MR systems?. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2017, 61, 345-359.	0.4	21

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55	SigMate: A MATLAB-based neuronal signal processing tool. , 2010, 2010, 1352-5.		20
56	EEG based brain-machine interface for navigation of robotic device. , 2010, , .		20
57	IVGTT glucose minimal model covariate selection by nonlinear mixed-effects approach. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E950-E960.	1.8	19
58	Use of Spectral Analysis with Iterative Filter for Voxelwise Determination of Regional Rates of Cerebral Protein Synthesis with <scp>L</scp> -[1- ¹¹ C]leucine PET. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1073-1085.	2.4	18
59	Dynamic PET Imaging Reveals Heterogeneity of Skeletal Muscle Insulin Resistance. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E102-E106.	1.8	18
60	Modelling arterial input functions in positron emission tomography dynamic studies. , 2015, 2015, 2247-50.		18
61	Test-retest reproducibility of quantitative binding measures of [11 C]Ro15-4513, a PET ligand for GABA A receptors containing alpha5 subunits. NeuroImage, 2017, 152, 270-282.	2.1	17
62	The contribution of beta-amyloid to dementia in Lewy body diseases: a 1-year follow-up study. Brain Communications, 2021, 3, fcab180.	1.5	17
63	Widespread cortical functional disconnection in gliomas: an individual network mapping approach. Brain Communications, 2022, 4, fcac082.	1.5	17
64	The impact of schizophrenia on frontal perfusion parameters: a DSC-MRI study. Journal of Neural Transmission, 2011, 118, 563-570.	1.4	16
65	Heterogeneity of Cortical Lesion Susceptibility Mapping in Multiple Sclerosis. American Journal of Neuroradiology, 2017, 38, 1087-1095.	1.2	16
66	White matter and task-switching in young adults: A Diffusion Tensor Imaging study. Neuroscience, 2016, 329, 349-362.	1.1	15
67	Archetypes of human cognition defined by time preference for reward and their brain correlates: An evolutionary trade-off approach. Neurolmage, 2019, 185, 322-334.	2.1	15
68	Dose-responsive insulin regulation of glucose transport in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1124-E1130.	1.8	14
69	Nonlinear Mixed Effects to Improve Glucose Minimal Model Parameter Estimation: A Simulation Study in Intensive and Sparse Sampling. IEEE Transactions on Biomedical Engineering, 2009, 56, 2156-2166.	2.5	14
70	Empirical Bayesian estimation in graphical analysis: a voxel-based approach for the determination of the volume of distribution in PET studies. Nuclear Medicine and Biology, 2010, 37, 443-451.	0.3	14
71	SAKE: A new quantification tool for positron emission tomography studies. Computer Methods and Programs in Biomedicine, 2013, 111, 199-213.	2.6	14
72	Improved Models for Plasma Radiometabolite Correction and their Impact on Kinetic Quantification in PET Studies. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1462-1469.	2.4	14

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73	A Unified Framework for Plasma Data Modeling in Dynamic Positron Emission Tomography Studies. IEEE Transactions on Biomedical Engineering, 2019, 66, 1447-1455.	2.5	14
74	Direct measurement of the lumped constant for 2-deoxy-[1-14C]glucose in vivo in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E228-E233.	1.8	13
75	Multi-Scale hierarchical generation of PET parametric maps: Application and testing on a [11C]DPN study. NeuroImage, 2012, 59, 2485-2493.	2.1	13
76	Multi-scale hierarchical approach for parametric mapping: Assessment on multi-compartmental models. NeuroImage, 2013, 67, 344-353.	2.1	13
77	Quantification of Dynamic [18F]FDG Pet Studies in Acute Lung Injury. Molecular Imaging and Biology, 2016, 18, 143-152.	1.3	13
78	On the Role of the Inferior Intraparietal Sulcus in Visual Working Memory for Lateralized Single-feature Objects. Journal of Cognitive Neuroscience, 2017, 29, 337-351.	1.1	13
79	Title is missing!. Journal of Medical and Biological Engineering, 2012, 32, 397.	1.0	13
80	Voxelwise Quantification of [¹¹ C](<i>R</i>)-Rolipram PET Data: A Comparison Between Model-Based and Data-Driven Methods. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1032-1040.	2.4	12
81	Preoperative Prediction of Facial Nerve in Patients with Vestibular Schwannomas: The Role of Diffusion Tensor Imaging—A Systematic Review. World Neurosurgery, 2019, 125, 24-31.	0.7	12
82	Automatic detection of layer activation order in information processing pathways of rat barrel cortex under mechanical whisker stimulation. , 2010, 2010, 6095-8.		11
83	A contour based automatic method to classify Local Field Potentials recorded from rat barrel cortex. , 2010, , .		10
84	SigMate: A comprehensive software package for extracellular neuronal signal processing and analysis. , 2011, , .		10
85	Cerebellar and lobar blood flow in schizophrenia: A perfusion weighted imaging study. Psychiatry Research - Neuroimaging, 2011, 193, 46-52.	0.9	10
86	Effects of shortened scanning intervals on calculated regional rates of cerebral protein synthesis determined with the L-[1-11C]leucine PET method. PLoS ONE, 2018, 13, e0195580.	1.1	10
87	Unveiling wholeâ€brain dynamics in normal aging through Hidden Markov Models. Human Brain Mapping, 2022, 43, 1129-1144.	1.9	10
88	Impact of tissue kinetic heterogeneity on PET quantification: case study with the L-[1-11C]leucine PET method for cerebral protein synthesis rates. Scientific Reports, 2018, 8, 931.	1.6	9
89	PET Parametric Imaging Improved by Global-Two-Stage Method. Annals of Biomedical Engineering, 2009, 37, 419-427.	1.3	8
90	Global-two-stage filtering of clinical PET parametric maps: Application to [11C]-(R)-PK11195. NeuroImage, 2011, 55, 942-953.	2.1	8

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91	Multishell Diffusion MRI–Based Tractography of the Facial Nerve in Vestibular Schwannoma. American Journal of Neuroradiology, 2020, 41, 1480-1486.	1.2	8
92	A non-linear mixed effect modelling approach for metabolite correction of the arterial input function in PET studies. NeuroImage, 2013, 66, 611-622.	2.1	7
93	Protein synthesis is associated with high-speed dynamics and broad-band stability of functional hubs in the brain. Neurolmage, 2017, 155, 209-216.	2.1	7
94	Variability of regional glucose metabolism and the topology of functional networks in the human brain. NeuroImage, 2022, 257, 119280.	2.1	7
95	Assessment of clinical data of nonlinear stochastic deconvolution versus block-circulant singular value decomposition for quantitative dynamic susceptibility contrast magnetic resonance imaging. Magnetic Resonance Imaging, 2011, 29, 927-936.	1.0	6
96	Structural hemispheric asymmetries underlie verbal Stroop performance. Behavioural Brain Research, 2017, 335, 167-173.	1.2	6
97	Quantification of normal-appearing white matter damage in early relapse-onset multiple sclerosis through neurite orientation dispersion and density imaging. Multiple Sclerosis and Related Disorders, 2022, 58, 103396.	0.9	6
98	Substitution of venous for arterial blood sampling in the determination of regional rates of cerebral protein synthesis with L-[1- ¹¹ C]leucine PET: A validation study. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1849-1863.	2.4	5
99	Magnetic Resonance Imaging Correlates of Immune Microenvironment in Glioblastoma. Frontiers in Oncology, 2022, 12, 823812.	1.3	5
100	Assessment of structural disconnections in gliomas: comparison of indirect and direct approaches. Brain Structure and Function, 2022, 227, 3109-3120.	1.2	5
101	Identification of IVGTT minimal glucose model by nonlinear mixed-effects approaches. , 2006, 2006, 5049-52.		4
102	An automated method for clustering single sweep local field potentials recorded from rat barrel cortex. , 2011, , .		4
103	Effect of voluntary repetitive long-lasting muscle contraction activity on the BOLD signal as assessed by optimal hemodynamic response function. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 171-184.	1.1	4
104	Parametric Mapping for TSPO PET Imaging with Spectral Analysis Impulsive Response Function. Molecular Imaging and Biology, 2021, 23, 560-571.	1.3	4
105	Quantification of Brain β-Amyloid Load in Parkinson's Disease With Mild Cognitive Impairment: A PET/MRI Study. Frontiers in Neurology, 2021, 12, 760518.	1.1	4
106	Quantitative in vivo imaging of microglia activation using [11C]PK11195 and two reference tissue models. Neurolmage, 2006, 31, T79.	2.1	3
107	Clucose Minimal Model population analysis: Likelihood function profiling via Monte Carlo sampling. , 2008, 2008, 4932-5.		3
108	Processing of neuronal signals recorded by brain-chip interface from surface of the S1 brain cortex. , 2010, , .		3

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#	Article	IF	CITATIONS
109	Supervised classification of brain tissues through local multi-scale texture analysis by coupling DIR and FLAIR MR sequences. , 2012, , .		3
110	Visual Predictive Check in Models with Time-Varying Input Function. AAPS Journal, 2015, 17, 1455-1463.	2.2	3
111	Stable spline deconvolution for dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 2017, 78, 1801-1811.	1.9	3
112	The kinetics of 18F-FDG in lung cancer: compartmental models and voxel analysis. EJNMMI Research, 2018, 8, 88.	1.1	3
113	Multicenter Validation Of Population-Based Input Function With Non-Linear Mixed Effect Modeling For Voxel-Wise Quantification Of [¹⁸ F]Fdg Metabolic Rate. , 2019, , .		3
114	Kinetic modeling of the adenosine A2A subtype receptor radioligand [11C]SCH442416 in humans. NeuroImage, 2010, 52, S178.	2.1	2
115	Identification of the glucose minimal model by stochastic nonlinear-mixed effects methods. , 2012, 2012, 5482-5.		2
116	Estimation of arterial arrival time and cerebral blood flow from QUASAR arterial spin labeling using stable spline. Magnetic Resonance in Medicine, 2015, 74, 1758-1767.	1.9	2
117	Neurite orientation dispersion and density imaging discloses early changes in the normal-appearing white matter in paediatric multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, 332-334.	0.9	2
118	Physiological Modelling of Positron Emission Tomography Images. , 2014, , 417-448.		1
119	A spectral analysis approach for voxelwise determination of regional rates of cerebral protein synthesis with the L-[1-11C]leucine PET method. NeuroImage, 2010, 52, S212.	2.1	0
120	Use of the global-two-stage algorithm to improve parametric maps in PET imaging: Application to [11C](R)-PK11195. Neurolmage, 2010, 52, S215.	2.1	0
121	NODDI discloses early changes in the normal appearing white matter in paediatric multiple sclerosis. Journal of the Neurological Sciences, 2021, 429, 118881.	0.3	0
122	Impact of unmetabolized tracer function modeling on quantification of [carbonyl-11C]WAY-100635 PET images. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S630-S630.	2.4	0
123	Binding potential underestimation with reference tissue models: Insight from [carbonyl-11C]WAY-100635 simulation studies. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S641-S641.	2.4	0
124	Data Modeling and Simulation. , 2008, , 115-136.		0
125	Unsupervised Segmentation of Brain Tissues using Multiphase Level Sets on Multiple MRI Sequences. , 2011, , .		0
126	Diffusion-based microstructure models in brain tumours: Fitting in presence of a model-microstructure mismatch. NeuroImage: Clinical, 2022, 34, 102968.	1.4	0

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127	Impaired cognitive control in patients with brain tumors. Neuropsychologia, 2022, 169, 108187.	0.7	0
128	Identification of IVGTT minimal glucose model by nonlinear mixed-effects approaches. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0