Marco Aiello

List of Publications by Year
in descending order

99 papers	2,590 citations	201674 27 h-index	233421 45 g-index
102 all docs	102 docs citations	102 times ranked	4636 citing authors

#	Article	IF	Citations
1	Relationship between simultaneously acquired resting-state regional cerebral glucose metabolism and functional MRI: A PET/MR hybrid scanner study. NeuroImage, 2015, 113, 111-121.	4.2	182
2	Comparison of whole-body PET/CT and PET/MRI in breast cancer patients: Lesion detection and quantitation of 18F-deoxyglucose uptake in lesions and in normal organ tissues. European Journal of Radiology, 2014, 83, 289-296.	2.6	117
3	Simultaneous resting-state FDG-PET/fMRI in Alzheimer Disease: Relationship between glucose metabolism and intrinsic activity. NeuroImage, 2018, 176, 246-258.	4.2	105
4	Radiogenomic Analysis of Oncological Data: A Technical Survey. International Journal of Molecular Sciences, 2017, 18, 805.	4.1	102
5	Multisite longitudinal reliability of tract-based spatial statistics in diffusion tensor imaging of healthy elderly subjects. NeuroImage, 2014, 101, 390-403.	4.2	99
6	Longitudinal reproducibility of default-mode network connectivity in healthy elderly participants: A multicentric resting-state fMRI study. NeuroImage, 2016, 124, 442-454.	4.2	85
7	Short parietal lobe connections of the human and monkey brain. Cortex, 2017, 97, 339-357.	2.4	74
8	Free water elimination improves test–retest reproducibility of diffusion tensor imaging indices in the brain: A longitudinal multisite study of healthy elderly subjects. Human Brain Mapping, 2017, 38, 12-26.	3.6	72
9	Bringing radiomics into a multi-omics framework for a comprehensive genotype–phenotype characterization of oncological diseases. Journal of Translational Medicine, 2019, 17, 337.	4.4	72
10	First experience of simultaneous PET/MRI for the early detection of cardiac involvement in patients with Anderson-Fabry disease. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1025-1031.	6.4	71
11	Simultaneous PET/MR head–neck cancer imaging: Preliminary clinical experience and multiparametric evaluation. European Journal of Radiology, 2015, 84, 1269-1276.	2.6	59
12	Radiolabeled PET/MRI Nanoparticles for Tumor Imaging. Journal of Clinical Medicine, 2020, 9, 89.	2.4	58
13	The Challenges of Diagnostic Imaging in the Era of Big Data. Journal of Clinical Medicine, 2019, 8, 316.	2.4	57
14	Altered processing of rewarding and aversive basic taste stimuli in symptomatic women with anorexia nervosa and bulimia nervosa: An fMRI study. Journal of Psychiatric Research, 2017, 90, 94-101.	3.1	51
15	Hybrid PET/MR Imaging and Brain Connectivity. Frontiers in Neuroscience, 2016, 10, 64.	2.8	50
16	Functional Connectivity Substrates for tDCS Response in Minimally Conscious State Patients. Frontiers in Cellular Neuroscience, 2016, 10, 257.	3.7	42
17	Whole-body PET/MRI in oncology: current status and clinical applications. Clinical and Translational Imaging, 2013, 1, 31-44.	2.1	41
18	DCE-MRI Pharmacokinetic-Based Phenotyping of Invasive Ductal Carcinoma: A Radiomic Study for Prediction of Histological Outcomes. Contrast Media and Molecular Imaging, 2018, 2018, 1-11.	0.8	41

#	ARTICLE	IF	CITATIONS
19	Simultaneous EEG-fMRI for Functional Neurological Assessment. Frontiers in Neurology, 2019, 10, 848.	2.4	41
20	Progression of Brain Atrophy in Spinocerebellar Ataxia Type 2: A Longitudinal Tensor-Based Morphometry Study. PLoS ONE, 2014, 9, e89410.	2.5	41
21	Test-retest reliability of the default mode network in a multi-centric fMRI study of healthy elderly: Effects of data-driven physiological noise correction techniques. Human Brain Mapping, 2016, 37, 2114-2132.	3.6	38
22	Amygdalar nuclei and hippocampal subfields on MRI: Test-retest reliability of automated volumetry across different MRI sites and vendors. NeuroImage, 2020, 218, 116932.	4.2	38
23	Triaxial Fiber Optic Magnetic Field Sensor for Magnetic Resonance Imaging. Journal of Lightwave Technology, 2017, 35, 3924-3933.	4.6	37
24	Relationship between functional imaging and immunohistochemical markers and prediction of breast cancer subtype: a PET/MRI study. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 1680-1693.	6.4	36
25	Longitudinal reproducibility of automatically segmented hippocampal subfields: A multisite <scp>E</scp>uropean 3T study on healthy elderly. Human Brain Mapping, 2015, 36, 3516-3527.	3.6	34
26	Progression of Microstructural Damage in Spinocerebellar Ataxia Type 2: A Longitudinal DTI Study. American Journal of Neuroradiology, 2015, 36, 1096-1101.	2.4	34
27	The effects of childhood maltreatment on brain structure in adults with eating disorders. World Journal of Biological Psychiatry, 2019, 20, 301-309.	2.6	31
28	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. Frontiers in Human Neuroscience, 2014, 8, 1028.	2.0	30
29	Amnestic Mild Cognitive Impairment Is Associated With Frequency-Specific Brain Network Alterations in Temporal Poles. Frontiers in Aging Neuroscience, 2018, 10, 400.	3.4	29
30	AI-based applications in hybrid imaging: how to build smart and truly multi-parametric decision models for radiomics. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2673-2699.	6.4	29
31	Altered functional connectivity of interoception in illness anxiety disorder. Cortex, 2017, 86, 22-32.	2.4	28
32	The influence of interoceptive awareness on functional connectivity in patients with irritable bowel syndrome. Brain Imaging and Behavior, 2017, 11, 1117-1128.	2.1	28
33	Hybrid positron emission tomography-magnetic resonance imaging for assessing different stages of cardiac impairment in patients with Andersonâ€"Fabry disease: AFFINITY study group. European Heart Journal Cardiovascular Imaging, 2019, 20, 1004-1011.	1.2	28
34	A method for independent component graph analysis of restingâ€state <scp>fMRI</scp>. Brain and Behavior, 2017, 7, e00626.	2.2	27
35	Hybrid core shell nanoparticles entrapping Gd-DTPA and ¹⁸F-FDG for simultaneous PET/MRI acquisitions. Nanomedicine, 2017, 12, 2223-2231.	3.3	26
36	An Evaluation of the Benefits of Simultaneous Acquisition on PET/MR Coregistration in Head/Neck Imaging. Journal of Healthcare Engineering, 2017, 2017, 1-7.	1.9	26

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37	Neuroinflammation in Neurodegenerative Diseases: Current Multi-modal Imaging Studies and Future Opportunities for Hybrid PET/MRI. Neuroscience, 2019, 403, 125-135.	2.3	26
38	Evaluation of a multiparametric MRI radiomic-based approach for stratification of equivocal PI-RADS 3 and upgraded PI-RADS 4 prostatic lesions. Scientific Reports, 2021, 11, 643.	3.3	26
39	Regional Cerebral Disease Progression in Friedreich's Ataxia: A Longitudinal Diffusion Tensor Imaging Study. Journal of Neuroimaging, 2016, 26, 197-200.	2.0	25
40	Multiparametric evaluation by simultaneous PET-MRI examination in patients with histologically proven laryngeal cancer. European Journal of Radiology, 2017, 88, 47-55.	2.6	25
41	Coronary artery aneurysms detected by computed tomography coronary angiography. European Heart Journal Cardiovascular Imaging, 2017, 18, 1229-1235.	1.2	25
42	Postprandial Gastrointestinal Function Differs after Acute Administration of Sourdough Compared with Brewer's Yeast Bakery Products in Healthy Adults. Journal of Nutrition, 2018, 148, 202-208.	2.9	25
43	Role of genetic polymorphisms and mutations in colorectal cancer therapy (Review). Molecular Medicine Reports, 2011, 4, 203-8.	2.4	24
44	Accuracy and reproducibility of automated white matter hyperintensities segmentation with lesion segmentation tool: A European multi-site 3T study. Magnetic Resonance Imaging, 2021, 76, 108-115.	1.8	24
45	Histogram analysis of DTI-derived indices reveals pontocerebellar degeneration and its progression in SCA2. PLoS ONE, 2018, 13, e0200258.	2.5	22
46	Gliosis and Neurodegenerative Diseases: The Role of PET and MR Imaging. Frontiers in Cellular Neuroscience, 2020, 14, 75.	3.7	20
47	CA15-3 is a useful serum tumor marker for diagnostic integration of hybrid positron emission tomography with integrated computed tomography during follow-up of breast cancer patients. BMC Cancer, 2014, 14, 356.	2.6	19
48	Multimodal Neuroimaging Approach to Variability of Functional Connectivity in Disorders of Consciousness: A PET/MRI Pilot Study. Frontiers in Neurology, 2018, 9, 861.	2.4	19
49	Cortical thickness, local gyrification index and fractal dimensionality in people with acute and recovered Anorexia Nervosa and in people with Bulimia Nervosa. Psychiatry Research - Neuroimaging, 2020, 299, 111069.	1.8	19
50	Fronto-Temporal Circuits in Musical Hallucinations: A PET-MR Case Study. Frontiers in Human Neuroscience, 2018, 12, 385.	2.0	18
51	An Ad Hoc Random Initialization Deep Neural Network Architecture for Discriminating Malignant Breast Cancer Lesions in Mammographic Images. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.8	18
52	MR Imaging-Histology Correlation by Tailored 3D-Printed Slicer in Oncological Assessment. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.8	16
53	A multi‐parametric PET/MRI study of breast cancer: Evaluation of DCE‐MRI pharmacokinetic models and correlation with diffusion and functional parameters. NMR in Biomedicine, 2019, 32, e4026.	2.8	16
54	Tumor segmentation analysis at different post-contrast time points: A possible source of variability of quantitative DCE-MRI parameters in locally advanced breast cancer. European Journal of Radiology, 2020, 126, 108907.	2.6	16

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55	Hybrid PET/MRI Methodology. International Review of Neurobiology, 2018, 141, 97-128.	2.0	15
56	Diffusion Tensor Imaging of the Kidney: Design and Evaluation of a Reliable Processing Pipeline. Scientific Reports, 2019, 9, 12789.	3.3	15
57	Lower medulla hypoplasia in Friedreich ataxia: MR Imaging confirmation 140Âyears later. Journal of Neurology, 2017, 264, 1526-1528.	3.6	14
58	Organization of the commissural fiber system in congenital and late-onset blindness. NeuroImage: Clinical, 2020, 25, 102133.	2.7	14
59	Consciousness and the Dimensionality of DOC Patients via the Generalized Ising Model. Journal of Clinical Medicine, 2020, 9, 1342.	2.4	14
60	In Vivo and In Vitro Analysis in Coronary Artery Disease Related to Type 2 Diabetes. Frontiers in Endocrinology, 2017, 8, 209.	3.5	13
61	MuSA: a graphical user interface for multi-OMICs data integration in radiogenomic studies. Scientific Reports, 2021, 11, 1550.	3.3	13
62	Alexithymic trait is associated with right IFG and pre-SMA activation in non-emotional response inhibition in healthy subjects. Neuroscience Letters, 2017, 658, 150-154.	2.1	11
63	How does DICOM support big data management? Investigating its use in medical imaging community. Insights Into Imaging, 2021, 12, 164.	3.4	11
64	Full in-beam PET measurements of 62MeV protons onto a PMMA target. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 151-153.	1.6	9
65	Gender, ageâ€related, and regional differences of the magnetization transfer ratio of the cortical and subcortical brain gray matter. Journal of Magnetic Resonance Imaging, 2014, 40, 360-366.	3.4	9
66	In vivo evidence of cortical amyloid deposition in the adult form of Niemann Pick type C. Heliyon, 2019, 5, e02776.	3.2	9
67	Cerebral microstructural abnormalities in impulsivity: a magnetic resonance study. Brain Imaging and Behavior, 2021, 15, 346-354.	2.1	9
68	Structural Brain Network Reproducibility: Influence of Different Diffusion Acquisition and Tractography Reconstruction Schemes on Graph Metrics. Brain Connectivity, 2022, 12, 754-767.	1.7	7
69	Variability of regional glucose metabolism and the topology of functional networks in the human brain. NeuroImage, 2022, 257, 119280.	4.2	7
70	Impact of radiogenomics in esophageal cancer on clinical outcomes: A pilot study. World Journal of Gastroenterology, 2021, 27, 6110-6127.	3.3	6
71	A Dose Determination Procedure by PET Monitoring in Proton Therapy: Monte Carlo Validation. IEEE Transactions on Nuclear Science, 2013, 60, 3298-3304.	2.0	5
72	A Multimodal Imaging Study in a Case of Bilateral Thalamic Damage With Multidomain Cognitive Impairment. Frontiers in Neurology, 2019, 10, 1048.	2.4	5

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73	A random initialization deep neural network for discriminating malignant breast cancer lesions. , 2019, 2019, 912-915.		5
74	[18F]FDG uptake of the normal spinal cord in PET/MR imaging: comparison with PET/CT imaging. EJNMMI Research, 2020, 10, 91.	2.5	5
75	A comparison of diffusion tractography techniques in simulating the generalized Ising model to predict the intrinsic activity of the brain. Brain Structure and Function, 2021, 226, 817-832.	2.3	5
76	Identifying a Common Functional Framework for Apathy Large-Scale Brain Network. Journal of Personalized Medicine, 2021, 11, 679.	2.5	5
77	Electroencephalographic and Neuroimaging Asymmetry Correlation in Patients with Attention-Deficit Hyperactivity Disorder. Neural Plasticity, 2020, 2020, 1-9.	2.2	4
78	Microstructural Changes in Motor Functional Conversion Disorder: Multimodal Imaging Approach on a Case. Brain Sciences, 2020, 10, 385.	2.3	4
79	BCU Imaging Biobank, an Innovative Digital Resource for Biomedical Research Collecting Imaging and Clinical Data From Human Healthy and Pathological Subjects. Open Journal of Bioresources, 2021, 8, .	1.5	4
80	Convergent and Discriminant Validity of Default Mode Network and Limbic Network Perfusion in Amnestic Mild Cognitive Impairment Patients. Journal of Alzheimer's Disease, 2021, 82, 1797-1808.	2.6	4
81	Self-Reported Sleep Quality Across Age Modulates Resting-State Functional Connectivity in Limbic and Fronto-Temporo-Parietal Networks: An Exploratory Cross-Sectional fMRI Study. Frontiers in Aging Neuroscience, 2022, 14, 806374.	3.4	4
82	A dose determination procedure by PET monitoring in proton therapy. , 2011, , .		3
83	Brain Networks Involved in Depression in Patients with Frontotemporal Dementia and Parkinson's Disease: An Exploratory Resting-State Functional Connectivity MRI Study. Diagnostics, 2022, 12, 959.	2.6	3
84	A multi-modal fusion scheme for the enhancement of PET/MR viewing. EJNMMI Physics, 2015, 2, A32.	2.7	2
85	Triaxial fiber optic magnetic field sensor for MRI applications. , 2016, , .		2
86	Automatic Prediction and Assessment of Treatment Response in Patients with Hodgkin's Lymphoma Using a Whole-Body DW-MRI Based Approach. Diagnostics, 2020, 10, 702.	2.6	2
87	A network performance view of a biobanking system for diagnostic images. , 2020, , .		2
88	Voxel-Wise Feature Selection Method for CNN Binary Classification of Neuroimaging Data. Frontiers in Neuroscience, 2021, 15, 630747.	2.8	2
89	Evaluation of AI-Based Segmentation Tools for COVID-19 Lung Lesions on Conventional and Ultra-low Dose CT Scans. Dose-Response, 2022, 20, 155932582210828.	1.6	2
90	Handedness Side and Magnetization Transfer Ratio in the Primary Sensorimotor Cortex Central Sulcus. BioMed Research International, 2019, 2019, 1-7.	1.9	1

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91	Training Skills in Minimally Invasive, Robotic and Open Surgery: Brain Activation as an Opportunity for Learning. European Surgical Research, 2020, 61, 34-50.	1.3	1
92	The impact of MR‐based attenuation correction in spinal cord FDG‐PET/MR imaging for neurological studies. Medical Physics, 2021, 48, 5924-5934.	3.0	1
93	Diffusion tensor imaging for the study of early renal dysfunction in patients affected by bardet-biedl syndrome. Scientific Reports, 2021, 11, 20855.	3.3	1
94	Fast convergence for spectral clustering. , 2007, , .		0
95	FDG-PET in Dementia. , 2016, , 73-87.		0
96	[IC‐P‐167]: ACROSS‐SESSION REPRODUCIBILITY OF AUTOMATIC WHITE MATTER HYPERINTENSITIES SEGMENTATION: A EUROPEAN MULTI‐SITE 3T STUDY. Alzheimer's and Dementia, 2017, 13, P126.	0.8	0
97	Amygdalar nuclei and hippocampal subfields on MRI: Test‐retest reliability of automated segmentation in old and young healthy volunteers. Alzheimer's and Dementia, 2020, 16, e040322.	0.8	0
98	A Novel Template-Based Approach to the Segmentation of the Hippocampal Region. Computational Methods in Applied Sciences (Springer), 2011, , 229-246.	0.3	0
99	Hybrid Imaging in Vegetative State. , 2016, , 247-249.		0