

Marco Aiello

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

2,590
citations

201674

27
h-index

233421

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all docs

102
docs citations

102
times ranked

4636
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Brain Network Reproducibility: Influence of Different Diffusion Acquisition and Tractography Reconstruction Schemes on Graph Metrics. <i>Brain Connectivity</i> , 2022, 12, 754-767.	1.7	7
2	Self-Reported Sleep Quality Across Age Modulates Resting-State Functional Connectivity in Limbic and Fronto-Temporo-Parietal Networks: An Exploratory Cross-Sectional fMRI Study. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 806374.	3.4	4
3	Evaluation of AI-Based Segmentation Tools for COVID-19 Lung Lesions on Conventional and Ultra-low Dose CT Scans. <i>Dose-Response</i> , 2022, 20, 155932582210828.	1.6	2
4	Brain Networks Involved in Depression in Patients with Frontotemporal Dementia and Parkinson's Disease: An Exploratory Resting-State Functional Connectivity MRI Study. <i>Diagnostics</i> , 2022, 12, 959.	2.6	3
5	Variability of regional glucose metabolism and the topology of functional networks in the human brain. <i>NeuroImage</i> , 2022, 257, 119280.	4.2	7
6	Cerebral microstructural abnormalities in impulsivity: a magnetic resonance study. <i>Brain Imaging and Behavior</i> , 2021, 15, 346-354.	2.1	9
7	Accuracy and reproducibility of automated white matter hyperintensities segmentation with lesion segmentation tool: A European multi-site 3T study. <i>Magnetic Resonance Imaging</i> , 2021, 76, 108-115.	1.8	24
8	BCU Imaging Biobank, an Innovative Digital Resource for Biomedical Research Collecting Imaging and Clinical Data From Human Healthy and Pathological Subjects. <i>Open Journal of Bioresources</i> , 2021, 8, .	1.5	4
9	A comparison of diffusion tractography techniques in simulating the generalized Ising model to predict the intrinsic activity of the brain. <i>Brain Structure and Function</i> , 2021, 226, 817-832.	2.3	5
10	Voxel-Wise Feature Selection Method for CNN Binary Classification of Neuroimaging Data. <i>Frontiers in Neuroscience</i> , 2021, 15, 630747.	2.8	2
11	Identifying a Common Functional Framework for Apathy Large-Scale Brain Network. <i>Journal of Personalized Medicine</i> , 2021, 11, 679.	2.5	5
12	Convergent and Discriminant Validity of Default Mode Network and Limbic Network Perfusion in Amnesic Mild Cognitive Impairment Patients. <i>Journal of Alzheimer's Disease</i> , 2021, 82, 1797-1808.	2.6	4
13	The impact of MR-based attenuation correction in spinal cord FDG-PET/MR imaging for neurological studies. <i>Medical Physics</i> , 2021, 48, 5924-5934.	3.0	1
14	Impact of radiogenomics in esophageal cancer on clinical outcomes: A pilot study. <i>World Journal of Gastroenterology</i> , 2021, 27, 6110-6127.	3.3	6
15	Evaluation of a multiparametric MRI radiomic-based approach for stratification of equivocal PI-RADS 3 and upgraded PI-RADS 4 prostatic lesions. <i>Scientific Reports</i> , 2021, 11, 643.	3.3	26
16	MuSA: a graphical user interface for multi-OMICs data integration in radiogenomic studies. <i>Scientific Reports</i> , 2021, 11, 1550.	3.3	13
17	Diffusion tensor imaging for the study of early renal dysfunction in patients affected by bardet-biedl syndrome. <i>Scientific Reports</i> , 2021, 11, 20855.	3.3	1
18	How does DICOM support big data management? Investigating its use in medical imaging community. <i>Insights Into Imaging</i> , 2021, 12, 164.	3.4	11

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19	Radiolabeled PET/MRI Nanoparticles for Tumor Imaging. <i>Journal of Clinical Medicine</i> , 2020, 9, 89.	2.4	58
20	Organization of the commissural fiber system in congenital and late-onset blindness. <i>NeuroImage: Clinical</i> , 2020, 25, 102133.	2.7	14
21	[18F]FDG uptake of the normal spinal cord in PET/MR imaging: comparison with PET/CT imaging. <i>EJNMMI Research</i> , 2020, 10, 91.	2.5	5
22	Automatic Prediction and Assessment of Treatment Response in Patients with Hodgkin's Lymphoma Using a Whole-Body DW-MRI Based Approach. <i>Diagnostics</i> , 2020, 10, 702.	2.6	2
23	A network performance view of a biobanking system for diagnostic images. , 2020, , .		2
24	Electroencephalographic and Neuroimaging Asymmetry Correlation in Patients with Attention-Deficit Hyperactivity Disorder. <i>Neural Plasticity</i> , 2020, 2020, 1-9.	2.2	4
25	Amygdalar nuclei and hippocampal subfields on MRI: Test-retest reliability of automated segmentation in old and young healthy volunteers. <i>Alzheimer's and Dementia</i> , 2020, 16, e040322.	0.8	0
26	Amygdalar nuclei and hippocampal subfields on MRI: Test-retest reliability of automated volumetry across different MRI sites and vendors. <i>NeuroImage</i> , 2020, 218, 116932.	4.2	38
27	Consciousness and the Dimensionality of DOC Patients via the Generalized Ising Model. <i>Journal of Clinical Medicine</i> , 2020, 9, 1342.	2.4	14
28	Cortical thickness, local gyrification index and fractal dimensionality in people with acute and recovered Anorexia Nervosa and in people with Bulimia Nervosa. <i>Psychiatry Research - Neuroimaging</i> , 2020, 299, 111069.	1.8	19
29	Microstructural Changes in Motor Functional Conversion Disorder: Multimodal Imaging Approach on a Case. <i>Brain Sciences</i> , 2020, 10, 385.	2.3	4
30	Training Skills in Minimally Invasive, Robotic and Open Surgery: Brain Activation as an Opportunity for Learning. <i>European Surgical Research</i> , 2020, 61, 34-50.	1.3	1
31	Tumor segmentation analysis at different post-contrast time points: A possible source of variability of quantitative DCE-MRI parameters in locally advanced breast cancer. <i>European Journal of Radiology</i> , 2020, 126, 108907.	2.6	16
32	Gliosis and Neurodegenerative Diseases: The Role of PET and MR Imaging. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 75.	3.7	20
33	Neuroinflammation in Neurodegenerative Diseases: Current Multi-modal Imaging Studies and Future Opportunities for Hybrid PET/MRI. <i>Neuroscience</i> , 2019, 403, 125-135.	2.3	26
34	AI-based applications in hybrid imaging: how to build smart and truly multi-parametric decision models for radiomics. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2673-2699.	6.4	29
35	A Multimodal Imaging Study in a Case of Bilateral Thalamic Damage With Multidomain Cognitive Impairment. <i>Frontiers in Neurology</i> , 2019, 10, 1048.	2.4	5
36	Bringing radiomics into a multi-omics framework for a comprehensive genotype-phenotype characterization of oncological diseases. <i>Journal of Translational Medicine</i> , 2019, 17, 337.	4.4	72

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37	Diffusion Tensor Imaging of the Kidney: Design and Evaluation of a Reliable Processing Pipeline. <i>Scientific Reports</i> , 2019, 9, 12789.	3.3	15
38	Handedness Side and Magnetization Transfer Ratio in the Primary Sensorimotor Cortex Central Sulcus. <i>BioMed Research International</i> , 2019, 2019, 1-7.	1.9	1
39	Simultaneous EEG-fMRI for Functional Neurological Assessment. <i>Frontiers in Neurology</i> , 2019, 10, 848.	2.4	41
40	MR Imaging-Histology Correlation by Tailored 3D-Printed Slicer in Oncological Assessment. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-9.	0.8	16
41	An Ad Hoc Random Initialization Deep Neural Network Architecture for Discriminating Malignant Breast Cancer Lesions in Mammographic Images. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-9.	0.8	18
42	The Challenges of Diagnostic Imaging in the Era of Big Data. <i>Journal of Clinical Medicine</i> , 2019, 8, 316.	2.4	57
43	Hybrid positron emission tomography-magnetic resonance imaging for assessing different stages of cardiac impairment in patients with Anderson-Fabry disease: AFFINITY study group. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 1004-1011.	1.2	28
44	A random initialization deep neural network for discriminating malignant breast cancer lesions. , 2019, 2019, 912-915.		5
45	In vivo evidence of cortical amyloid deposition in the adult form of Niemann Pick type C. <i>Heliyon</i> , 2019, 5, e02776.	3.2	9
46	A multi-parametric PET/MRI study of breast cancer: Evaluation of DCE-MRI pharmacokinetic models and correlation with diffusion and functional parameters. <i>NMR in Biomedicine</i> , 2019, 32, e4026.	2.8	16
47	The effects of childhood maltreatment on brain structure in adults with eating disorders. <i>World Journal of Biological Psychiatry</i> , 2019, 20, 301-309.	2.6	31
48	Postprandial Gastrointestinal Function Differs after Acute Administration of Sourdough Compared with Brewer's Yeast Bakery Products in Healthy Adults. <i>Journal of Nutrition</i> , 2018, 148, 202-208.	2.9	25
49	Relationship between functional imaging and immunohistochemical markers and prediction of breast cancer subtype: a PET/MRI study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1680-1693.	6.4	36
50	Simultaneous resting-state FDG-PET/fMRI in Alzheimer Disease: Relationship between glucose metabolism and intrinsic activity. <i>NeuroImage</i> , 2018, 176, 246-258.	4.2	105
51	Multimodal Neuroimaging Approach to Variability of Functional Connectivity in Disorders of Consciousness: A PET/MRI Pilot Study. <i>Frontiers in Neurology</i> , 2018, 9, 861.	2.4	19
52	Amnesic Mild Cognitive Impairment Is Associated With Frequency-Specific Brain Network Alterations in Temporal Poles. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 400.	3.4	29
53	Fronto-Temporal Circuits in Musical Hallucinations: A PET-MR Case Study. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 385.	2.0	18
54	Hybrid PET/MRI Methodology. <i>International Review of Neurobiology</i> , 2018, 141, 97-128.	2.0	15

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55	Histogram analysis of DTI-derived indices reveals pontocerebellar degeneration and its progression in SCA2. <i>PLoS ONE</i> , 2018, 13, e0200258.	2.5	22
56	DCE-MRI Pharmacokinetic-Based Phenotyping of Invasive Ductal Carcinoma: A Radiomic Study for Prediction of Histological Outcomes. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-11.	0.8	41
57	Multiparametric evaluation by simultaneous PET-MRI examination in patients with histologically proven laryngeal cancer. <i>European Journal of Radiology</i> , 2017, 88, 47-55.	2.6	25
58	Altered processing of rewarding and aversive basic taste stimuli in symptomatic women with anorexia nervosa and bulimia nervosa: An fMRI study. <i>Journal of Psychiatric Research</i> , 2017, 90, 94-101.	3.1	51
59	A method for independent component graph analysis of resting-state fMRI. <i>Brain and Behavior</i> , 2017, 7, e00626.	2.2	27
60	Lower medulla hypoplasia in Friedreich ataxia: MR Imaging confirmation 140 years later. <i>Journal of Neurology</i> , 2017, 264, 1526-1528.	3.6	14
61	Coronary artery aneurysms detected by computed tomography coronary angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1229-1235.	1.2	25
62	Alexithymic trait is associated with right IFG and pre-SMA activation in non-emotional response inhibition in healthy subjects. <i>Neuroscience Letters</i> , 2017, 658, 150-154.	2.1	11
63	Hybrid core shell nanoparticles entrapping Gd-DTPA and ¹⁸ F-FDG for simultaneous PET/MRI acquisitions. <i>Nanomedicine</i> , 2017, 12, 2223-2231.	3.3	26
64	Short parietal lobe connections of the human and monkey brain. <i>Cortex</i> , 2017, 97, 339-357.	2.4	74
65	Triaxial Fiber Optic Magnetic Field Sensor for Magnetic Resonance Imaging. <i>Journal of Lightwave Technology</i> , 2017, 35, 3924-3933.	4.6	37
66	Altered functional connectivity of interoception in illness anxiety disorder. <i>Cortex</i> , 2017, 86, 22-32.	2.4	28
67	Free water elimination improves test-retest reproducibility of diffusion tensor imaging indices in the brain: A longitudinal multisite study of healthy elderly subjects. <i>Human Brain Mapping</i> , 2017, 38, 12-26.	3.6	72
68	The influence of interoceptive awareness on functional connectivity in patients with irritable bowel syndrome. <i>Brain Imaging and Behavior</i> , 2017, 11, 1117-1128.	2.1	28
69	[ICP§]: ACROSS-SESSION REPRODUCIBILITY OF AUTOMATIC WHITE MATTER HYPERINTENSITIES SEGMENTATION: A EUROPEAN MULTI-SITE 3T STUDY. <i>Alzheimer's and Dementia</i> , 2017, 13, P126.	0.8	0
70	Radiogenomic Analysis of Oncological Data: A Technical Survey. <i>International Journal of Molecular Sciences</i> , 2017, 18, 805.	4.1	102
71	In Vivo and In Vitro Analysis in Coronary Artery Disease Related to Type 2 Diabetes. <i>Frontiers in Endocrinology</i> , 2017, 8, 209.	3.5	13
72	An Evaluation of the Benefits of Simultaneous Acquisition on PET/MR Coregistration in Head/Neck Imaging. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-7.	1.9	26

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73	Functional Connectivity Substrates for tDCS Response in Minimally Conscious State Patients. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 257.	3.7	42
74	Hybrid PET/MR Imaging and Brain Connectivity. <i>Frontiers in Neuroscience</i> , 2016, 10, 64.	2.8	50
75	FDG-PET in Dementia. , 2016, , 73-87.		0
76	Triaxial fiber optic magnetic field sensor for MRI applications. , 2016, , .		2
77	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. <i>Human Brain Mapping</i> , 2016, 37, 2114-2132.	3.6	38
78	Regional Cerebral Disease Progression in Friedreich's Ataxia: A Longitudinal Diffusion Tensor Imaging Study. <i>Journal of Neuroimaging</i> , 2016, 26, 197-200.	2.0	25
79	Longitudinal reproducibility of default-mode network connectivity in healthy elderly participants: A multicentric resting-state fMRI study. <i>NeuroImage</i> , 2016, 124, 442-454.	4.2	85
80	Hybrid Imaging in Vegetative State. , 2016, , 247-249.		0
81	A multi-modal fusion scheme for the enhancement of PET/MR viewing. <i>EJNMMI Physics</i> , 2015, 2, A32.	2.7	2
82	Longitudinal reproducibility of automatically segmented hippocampal subfields: A multisite European 3T study on healthy elderly. <i>Human Brain Mapping</i> , 2015, 36, 3516-3527.	3.6	34
83	Simultaneous PET/MR head-neck cancer imaging: Preliminary clinical experience and multiparametric evaluation. <i>European Journal of Radiology</i> , 2015, 84, 1269-1276.	2.6	59
84	Progression of Microstructural Damage in Spinocerebellar Ataxia Type 2: A Longitudinal DTI Study. <i>American Journal of Neuroradiology</i> , 2015, 36, 1096-1101.	2.4	34
85	Relationship between simultaneously acquired resting-state regional cerebral glucose metabolism and functional MRI: A PET/MR hybrid scanner study. <i>NeuroImage</i> , 2015, 113, 111-121.	4.2	182
86	First experience of simultaneous PET/MRI for the early detection of cardiac involvement in patients with Anderson-Fabry disease. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1025-1031.	6.4	71
87	Gender, age-related, and regional differences of the magnetization transfer ratio of the cortical and subcortical brain gray matter. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 360-366.	3.4	9
88	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. <i>European Journal of Radiology</i> , 2014, 83, 289-296.	2.6	117
89	Multisite longitudinal reliability of tract-based spatial statistics in diffusion tensor imaging of healthy elderly subjects. <i>NeuroImage</i> , 2014, 101, 390-403.	4.2	99
90	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. <i>BMC Cancer</i> , 2014, 14, 356.	2.6	19

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91	Progression of Brain Atrophy in Spinocerebellar Ataxia Type 2: A Longitudinal Tensor-Based Morphometry Study. PLoS ONE, 2014, 9, e89410.	2.5	41
92	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. Frontiers in Human Neuroscience, 2014, 8, 1028.	2.0	30
93	Whole-body PET/MRI in oncology: current status and clinical applications. Clinical and Translational Imaging, 2013, 1, 31-44.	2.1	41
94	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
95	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
96	Role of genetic polymorphisms and mutations in colorectal cancer therapy (Review). Molecular Medicine Reports, 2011, 4, 203-8.	2.4	24
97	A dose determination procedure by PET monitoring in proton therapy. , 2011, , .		3
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	Fast convergence for spectral clustering. , 2007, , .		0