

Alessandra Retico

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

3,375
citations

218662

26
h-index

168376

53
g-index

123
all docs

123
docs citations

123
times ranked

5355
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical and Subcortical Brain Morphometry Differences Between Patients With Autism Spectrum Disorder and Healthy Individuals Across the Lifespan: Results From the ENIGMA ASD Working Group. <i>American Journal of Psychiatry</i> , 2018, 175, 359-369.	7.2	356
2	Comparing and combining algorithms for computer-aided detection of pulmonary nodules in computed tomography scans: The ANODE09 study. <i>Medical Image Analysis</i> , 2010, 14, 707-722.	11.6	245
3	Scalar flavour-changing neutral currents in the large- $\tan(\beta^2)$ limit. <i>Journal of High Energy Physics</i> , 2001, 2001, 001-001.	4.7	182
4	Altered structural brain asymmetry in autism spectrum disorder in a study of 54 datasets. <i>Nature Communications</i> , 2019, 10, 4958.	12.8	167
5	Local MRI analysis approach in the diagnosis of early and prodromal Alzheimer's disease. <i>NeuroImage</i> , 2011, 58, 469-480.	4.2	161
6	Virtual Histology of Cortical Thickness and Shared Neurobiology in 6 Psychiatric Disorders. <i>JAMA Psychiatry</i> , 2021, 78, 47.	11.0	136
7	Subcortical Brain Volume, Regional Cortical Thickness, and Cortical Surface Area Across Disorders: Findings From the ENIGMA ADHD, ASD, and OCD Working Groups. <i>American Journal of Psychiatry</i> , 2020, 177, 834-843.	7.2	120
8	Randomized trial on the effects of a combined physical/cognitive training in aged MCI subjects: the Train the Brain study. <i>Scientific Reports</i> , 2017, 7, 39471.	3.3	108
9	Female children with autism spectrum disorder: An insight from mass-univariate and pattern classification analyses. <i>NeuroImage</i> , 2012, 59, 1013-1022.	4.2	95
10	A completely automated CAD system for mass detection in a large mammographic database. <i>Medical Physics</i> , 2006, 33, 3066-3075.	3.0	92
11	A CAD system for nodule detection in low-dose lung CTs based on region growing and a new active contour model. <i>Medical Physics</i> , 2007, 34, 4901-4910.	3.0	91
12	Mammogram Segmentation by Contour Searching and Mass Lesions Classification With Neural Network. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 2827-2833.	2.0	86
13	Lung nodule detection in low-dose and thin-slice computed tomography. <i>Computers in Biology and Medicine</i> , 2008, 38, 525-534.	7.0	80
14	The effect of gender on the neuroanatomy of children with autism spectrum disorders: a support vector machine case-control study. <i>Molecular Autism</i> , 2016, 7, 5.	4.9	75
15	Characterization of mammographic masses using a gradient-based segmentation algorithm and a neural classifier. <i>Computers in Biology and Medicine</i> , 2007, 37, 1479-1491.	7.0	73
16	B_s and K_L in SUSY models with non-minimal sources of flavour mixing. <i>Journal of High Energy Physics</i> , 2002, 2002, 063-063.	4.7	70
17	Multi-site repeatability and reproducibility of MR fingerprinting of the healthy brain at 1.5 and 3.0 T. <i>NeuroImage</i> , 2019, 195, 362-372.	4.2	67
18	Consortium neuroscience of attention deficit/hyperactivity disorder and autism spectrum disorder: The ENIGMA adventure. <i>Human Brain Mapping</i> , 2022, 43, 37-55.	3.6	61

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19	Gray Matter Alterations in Young Children with Autism Spectrum Disorders: Comparing Morphometry at the Voxel and Regional Level. <i>Journal of Neuroimaging</i> , 2015, 25, 866-874.	2.0	54
20	Hippocampal subfields at ultra high field MRI: An overview of segmentation and measurement methods. <i>Hippocampus</i> , 2017, 27, 481-494.	1.9	51
21	Combination of computer-aided detection algorithms for automatic lung nodule identification. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 455-464.	2.8	46
22	Predictive Models Based on Support Vector Machines: Whole-Brain versus Regional Analysis of Structural MRI in the Alzheimer's Disease. <i>Journal of Neuroimaging</i> , 2015, 25, 552-563.	2.0	42
23	Pleural nodule identification in low-dose and thin-slice lung computed tomography. <i>Computers in Biology and Medicine</i> , 2009, 39, 1137-1144.	7.0	36
24	Strategies to develop radiomics and machine learning models for lung cancer stage and histology prediction using small data samples. <i>Physica Medica</i> , 2021, 90, 13-22.	0.7	32
25	Evaluation of the intra- and inter-method agreement of brain MRI segmentation software packages: A comparison between SPM12 and FreeSurfer v6.0. <i>Physica Medica</i> , 2019, 64, 261-272.	0.7	30
26	The effect of age, sex and clinical features on the volume of Corpus Callosum in pre-schoolers with Autism Spectrum Disorder: a case-control study. <i>European Journal of Neuroscience</i> , 2018, 47, 568-578.	2.6	29
27	An in-beam PET system for monitoring ion-beam therapy: test on phantoms using clinical 62 MeV protons. <i>Journal of Instrumentation</i> , 2014, 9, C04005-C04005.	1.2	27
28	Three dimensional MRF obtains highly repeatable and reproducible multi-parametric estimations in the healthy human brain at 1.5T and 3T. <i>NeuroImage</i> , 2021, 226, 117573.	4.2	26
29	Distributed medical images analysis on a Grid infrastructure. <i>Future Generation Computer Systems</i> , 2007, 23, 475-484.	7.5	25
30	Evaluation of Altered Functional Connections in Male Children With Autism Spectrum Disorders on Multiple-Site Data Optimized With Machine Learning. <i>Frontiers in Psychiatry</i> , 2019, 10, 620.	2.6	25
31	Subtly altered topological asymmetry of brain structural covariance networks in autism spectrum disorder across 43 datasets from the ENIGMA consortium. <i>Molecular Psychiatry</i> , 2022, 27, 2114-2125.	7.9	25
32	Rehabilitative Interventions and Brain Plasticity in Autism Spectrum Disorders: Focus on MRI-Based Studies. <i>Frontiers in Neuroscience</i> , 2016, 10, 139.	2.8	24
33	Retrospective rigid motion correction of three-dimensional magnetic resonance fingerprinting of the human brain. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2606-2615.	3.0	23
34	MAGIC-5: an Italian mammographic database of digitised images for research. <i>Radiologia Medica</i> , 2008, 113, 477-485.	7.7	22
35	Autism Spectrum Disorder and Childhood Apraxia of Speech: Early Language-Related Hallmarks across Structural MRI Study. <i>Journal of Personalized Medicine</i> , 2020, 10, 275.	2.5	22
36	GPCALMA: a Grid-based Tool for Mammographic Screening. <i>Methods of Information in Medicine</i> , 2005, 44, 244-248.	1.2	21

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37	One-Class Support Vector Machines Identify the Language and Default Mode Regions As Common Patterns of Structural Alterations in Young Children with Autism Spectrum Disorders. <i>Frontiers in Neuroscience</i> , 2016, 10, 306.	2.8	21
38	BOâ€ mixing and decay constants with the non-perturbatively improved action. <i>Nuclear Physics B</i> , 2001, 618, 241-258.	2.5	20
39	Dealing with confounders and outliers in classification medical studies: The Autism Spectrum Disorders case study. <i>Artificial Intelligence in Medicine</i> , 2020, 108, 101926.	6.5	20
40	Brainstem enlargement in preschool children with autism: Results from an intermethod agreement study of segmentation algorithms. <i>Human Brain Mapping</i> , 2019, 40, 7-19.	3.6	19
41	A theoretical prediction of the B_s meson lifetime difference. <i>European Physical Journal C</i> , 2000, 18, 157-166.	3.9	18
42	Temporal lobe connects regression and macrocephaly to autism spectrum disorders. <i>European Child and Adolescent Psychiatry</i> , 2016, 25, 421-429.	4.7	18
43	Vascular Function Is Improved After an Environmental Enrichment Program. <i>Hypertension</i> , 2018, 71, 1218-1225.	2.7	18
44	Semiautomated Evaluation of the Primary Motor Cortex in Patients with Amyotrophic Lateral Sclerosis at 3T. <i>American Journal of Neuroradiology</i> , 2018, 39, 63-69.	2.4	17
45	The MAGIC-5 project: medical applications on a grid infrastructure connection. , 0, , .		16
46	Detection of Interfractional Morphological Changes in Proton Therapy: A Simulation and In Vivo Study With the INSIDE In-Beam PET. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	16
47	An automatic system to discriminate malignant from benign massive lesions on mammograms. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 596-600.	1.6	15
48	An automated system for lung nodule detection in low-dose computed tomography. , 2007, , .		15
49	Effects of combined training on neuropsychiatric symptoms and quality of life in patients with cognitive decline. <i>Ageing Clinical and Experimental Research</i> , 2021, 33, 1249-1257.	2.9	15
50	VALIDATION OF NUMERICAL APPROACHES FOR ELECTROMAGNETIC CHARACTERIZATION OF MAGNETIC RESONANCE RADIOFREQUENCY COILS. <i>Progress in Electromagnetics Research M</i> , 2013, 29, 121-136.	0.9	14
51	Neuroimaging-based methods for autism identification: a possible translational application?. <i>Functional Neurology</i> , 2014, 29, 231-9.	1.3	14
52	Numerical and Workbench Design of 2.35 T Double-Tuned ($^1\text{H}/^2\text{Na}$) Nested RF Birdcage Coils Suitable for Animal Size MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3175-3186.	8.9	13
53	An estimate of the K^0 - K^0_{bar} mixing amplitude. <i>Journal of High Energy Physics</i> , 2001, 2001, 012-012.	4.7	11
54	Mammogram segmentation by contour searching and massive lesion classification with neural network. , 0, , .		11

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55	A voxel-based neural approach (VBNA) to identify lung nodules in the ANODE09 study. , 2009, , .		11
56	Measuring the effects of confounders in medical supervised classification problems: the Confounding Index (CI). Artificial Intelligence in Medicine, 2020, 103, 101804.	6.5	11
57	Neuroimaging-based methods for autism identification: a possible translational application?. Functional Neurology, 0, , .	1.3	11
58	Virtual Ontogeny of Cortical Growth Preceding Mental Illness. Biological Psychiatry, 2022, 92, 299-313.	1.3	11
59	Lung Nodule Detection in Screening Computed Tomography. , 2006, , .		10
60	Multi-site harmonization of MRI data uncovers machine-learning discrimination capability in barely separable populations: An example from the ABIDE dataset. NeuroImage: Clinical, 2022, 35, 103082.	2.7	10
61	Preprocessing methods for nodule detection in lung CT. International Congress Series, 2005, 1281, 1099-1103.	0.2	9
62	Investigation of maximum local specific absorption rate in 7â€‰T magnetic resonance with respect to load size by use of electromagnetic simulations. Bioelectromagnetics, 2015, 36, 358-366.	1.6	9
63	A Degenerate Birdcage with Integrated Tx/Rx Switches and Butler Matrix for the Human Limbs at 7ÂˆT. Applied Magnetic Resonance, 2017, 48, 307-326.	1.2	9
64	Lower gray matter volumes of frontal lobes and insula in adolescents with anorexia nervosa restricting type: Findings from a Brain Morphometry Study. European Psychiatry, 2020, 63, e27.	0.2	9
65	Quantification of pulmonary involvement in COVID-19 pneumonia by means of a cascade of two U-nets: training and assessment on multiple datasets using different annotation criteria. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 229-237.	2.8	9
66	Multi-scale analysis of lung computed tomography images. Journal of Instrumentation, 2007, 2, P09007-P09007.	1.2	8
67	Localization of anatomical changes in patients during proton therapy with inâ€‰beam PET monitoring: A voxelâ€‰based morphometry approach exploiting Monte Carlo simulations. Medical Physics, 2022, 49, 23-40.	3.0	8
68	Convolutional Neural Networks for Breast Density Classification: Performance and Explanation Insights. Applied Sciences (Switzerland), 2022, 12, 148.	2.5	8
69	Quadrature birdcage coil with distributed capacitors for 7.0 T magnetic resonance data acquisition of small animals. Concepts in Magnetic Resonance Part B, 2014, 44, 83-88.	0.7	7
70	ARIANNA: A research environment for neuroimaging studies in autism spectrum disorders. Computers in Biology and Medicine, 2017, 87, 1-7.	7.0	7
71	Enhancing the impact of Artificial Intelligence in Medicine: A joint AIFM-INFN Italian initiative for a dedicated cloud-based computing infrastructure. Physica Medica, 2021, 91, 140-150.	0.7	7
72	A Scalable System for Microcalcification Cluster Automated Detection in a Distributed Mammographic Database. , 0, , .		6

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73	A scalable computer-aided detection system for microcalcification cluster identification in a pan-European distributed database of mammograms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 601-605.	1.6	6
74	Brain Hemodynamic Intermediate Phenotype Links Vitamin B ₁₂ to Cognitive Profile of Healthy and Mild Cognitive Impaired Subjects. Neural Plasticity, 2019, 2019, 1-11.	2.2	6
75	Computer-aided detection for pulmonary nodule identification: improving the radiologist's performance?. Imaging in Medicine, 2013, 5, 249-263.	0.0	5
76	First tests for an online treatment monitoring system with in-beam PET for proton therapy. Journal of Instrumentation, 2015, 10, C01010-C01010.	1.2	5
77	A Hardware Implementation of a Brain Inspired Filter for Image Processing. IEEE Transactions on Nuclear Science, 2017, 64, 1374-1381.	2.0	5
78	T-odd correlations in charged K _{l4} decays. Physical Review D, 2002, 65, .	4.7	4
79	GPCALMA, a mammographic CAD in a GRID connection. International Congress Series, 2003, 1256, 944-949.	0.2	4
80	Algorithms for automatic detection of lung nodules in CT scans. , 2011, , .		4
81	RF coil design for low and high field MRI: Numerical methods and measurements. , 2011, , .		4
82	Subject-specific knee SAR prediction using a degenerate birdcage at 7T. , 2018, , .		4
83	Node Centrality Measures Identify Relevant Structural MRI Features of Subjects with Autism. Brain Sciences, 2021, 11, 498.	2.3	4
84	GPCALMA: a Grid-based tool for mammographic screening. Methods of Information in Medicine, 2005, 44, 244-8.	1.2	4
85	Characterization of a Single Photon Counting Imaging System by Transfer Function Analysis. IEEE Transactions on Nuclear Science, 2007, 54, 245-251.	2.0	3
86	Residual Convolutional Neural Networks to Automatically Extract Significant Breast Density Features. Communications in Computer and Information Science, 2019, , 28-35.	0.5	3
87	Detection and classification of microcalcifications clusters in digitized mammograms. , 0, , .		2
88	A 7T double-tuned (¹ H/ ³¹ P) microstrip surface RF coil for the IMAGO7 MR scanner. , 2015, , .		2
89	A non-invasive method for a quantitative evaluation of muscle involvement in MRI of Neuromuscular Diseases. , 2015, , .		2
90	Machine learning techniques implemented ON structural MRI features at different spatial scales for preschoolers with autism spectrum disorders. Physica Medica, 2016, 32, 128.	0.7	2

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91	Double-Tuned Surface ^1H / ^{23}Na Radio Frequency Coils at 7 T: Comparison of Three Decoupling Methods. Applied Magnetic Resonance, 2019, 50, 649-661.	1.2	2
92	Radiomic and Dosiomic Profiling of Paediatric Medulloblastoma Tumours Treated with Intensity Modulated Radiation Therapy. Communications in Computer and Information Science, 2019, , 56-64.	0.5	2
93	GPCALMA: a grid approach to mammographic screening. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 394-398.	1.6	1
94	Chest CT automatic analysis for lung nodules detection implemented on a GPU computing system. , 2012, , .		1
95	Realistic Estimation of the local Specific Absorption Rate of human head in MR scanner at 7T. , 2013, , .		1
96	Local SAR in adults and children at 7T MR: Realistic estimation by the using of simulations. , 2014, , .		1
97	Non-invasive assessment of Neuromuscular Disorders by 7 tesla Magnetic Resonance Imaging and Spectroscopy: Dedicated radio-frequency coil development. , 2015, , .		1
98	Medical image processing using brain emulation. , 2016, , .		1
99	Sodium imaging of the human knee cartilage with magnetic resonance at ultra high field: Development of a double frequency ($^1\text{H}/^{23}\text{Na}$) RF coil. , 2017, , .		1
100	Technological challenges in Magnetic Resonance Imaging: enhancing sensitivity, moving to quantitative imaging and searching for disease biomarkers. Journal of Instrumentation, 2018, 13, C02007-C02007.	1.2	1
101	A new method to evaluate the average absorbed dose in mammography and breast tomosynthesis. , 2018, , .		1
102	Assessment of ultra-high-field Magnetic Resonance Imaging safety via temperature increase monitoring with Magnetic Resonance Thermometry. , 2020, , .		1
103	M5L: A web-based Computer Aided Detection system for automated search of lung nodules in thoracic Computed Tomography scans. , 2015, , 193-199.		1
104	Quantitative Scoring of Muscle Involvement in MRI of Neuromuscular Diseases. , 2015, , .		1
105	Evaluation of Dosimetric Properties in Full Field Digital Mammography (FFDM). , 2018, , .		1
106	Residual Convolutional Neural Networks for Breast Density Classification. , 2019, , .		1
107	GPCALMA: A Tool For Mammography With A GRID-Connected Distributed Database. AIP Conference Proceedings, 2003, , .	0.4	0
108	Characterization Of A Single Photon Counting Imaging System By The Transfer Functions Analysis. , 0, , .		0

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109	Special session in thoracic CAD. International Journal of Computer Assisted Radiology and Surgery, 2007, 2, 351-372.	2.8	0
110	Lung uniformization for juxta-pleural nodule detection. , 2008, , .		0
111	Selective reduction of CAD false-positive findings. , 2010, , .		0
112	Evaluation of 3D radio-frequency electromagnetic fields for any matching and coupling conditions by the use of basis functions. Journal of Magnetic Resonance, 2015, 261, 38-42.	2.1	0
113	Automated hippocampus segmentation with the Channeler Ant Model: Results on different datasets. , 2015, , .		0
114	Robustness of 7T-MRI Flexible Array Coil Behaviour. , 2017, , .		0
115	252. Prediction of subject-specific SAR distribution in MSK MR exam at 7â€T. Physica Medica, 2018, 56, 217-218.	0.7	0
116	Double Tuned 1H-23Na Birdcage Coils for MRI at 7 T : Performance evaluation through electromagnetic simulations. , 2018, , .		0
117	A Web-based Computer Aided Detection System for Automated Search of Lung Nodules in Thoracic Computed Tomography Scans. , 2015, , .		0