

Mario Mascaldi

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

4,762
citations

94433

37
h-index

110387

64
g-index

131
all docs

131
docs citations

131
times ranked

6384
citing authors

#	ARTICLE	IF	CITATIONS
1	European position statement on lung cancer screening. <i>Lancet Oncology</i> , The, 2017, 18, e754-e766.	10.7	428
2	Design, recruitment and baseline results of the ITALUNG trial for lung cancer screening with low-dose CT. <i>Lung Cancer</i> , 2009, 64, 34-40.	2.0	265
3	Mortality, survival and incidence rates in the ITALUNG randomised lung cancer screening trial. <i>Thorax</i> , 2017, 72, 825-831.	5.6	221
4	Chronic Obstructive Pulmonary Disease: Thin-Section CT Measurement of Airway Wall Thickness and Lung Attenuation. <i>Radiology</i> , 2005, 234, 604-610.	7.3	166
5	A Combined Pulmonary-Radiology Workshop for Visual Evaluation of COPD: Study Design, Chest CT Findings and Concordance with Quantitative Evaluation. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2012, 9, 151-159.	1.6	143
6	White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA-Epilepsy study. <i>Brain</i> , 2020, 143, 2454-2473.	7.6	123
7	Huntington Disease: Volumetric, Diffusion-weighted, and Magnetization Transfer MR Imaging of Brain. <i>Radiology</i> , 2004, 232, 867-873.	7.3	115
8	Four-Year Results of Low-Dose CT Screening and Nodule Management in the ITALUNG Trial. <i>Journal of Thoracic Oncology</i> , 2013, 8, 866-875.	1.1	114
9	Proton magnetic resonance spectroscopy in an italian family with spinocerebellar ataxia type 1. <i>Annals of Neurology</i> , 1998, 43, 244-252.	5.3	97
10	Brain white matter tracts degeneration in Friedreich ataxia. An in vivo MRI study using tract-based spatial statistics and voxel-based morphometry. <i>NeuroImage</i> , 2008, 40, 19-25.	4.2	97
11	Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. <i>Science Advances</i> , 2020, 6, .	10.3	97
12	Axial diffusivity is increased in the degenerating superior cerebellar peduncles of Friedreich's ataxia. <i>Neuroradiology</i> , 2011, 53, 367-372.	2.2	96
13	Magnetization transfer and diffusion tensor MR imaging of acute disseminated encephalomyelitis. <i>American Journal of Neuroradiology</i> , 2002, 23, 267-72.	2.4	91
14	Brain white matter damage in SCA1 and SCA2. An in vivo study using voxel-based morphometry, histogram analysis of mean diffusivity and tract-based spatial statistics. <i>NeuroImage</i> , 2008, 43, 10-19.	4.2	88
15	Spirometrically Gated High-Resolution CT Findings in COPD. <i>Chest</i> , 2006, 129, 558-564.	0.8	85
16	Lung densitometry: why, how and when. <i>Journal of Thoracic Disease</i> , 2017, 9, 3319-3345.	1.4	83
17	Diffusion-MRI in neurodegenerative disorders. <i>Magnetic Resonance Imaging</i> , 2015, 33, 853-876.	1.8	79
18	Progression of brain atrophy in the early stages of Parkinson's disease: A longitudinal tensor-based morphometry study in de novo patients without cognitive impairment. <i>Human Brain Mapping</i> , 2014, 35, 3932-3944.	3.6	75

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19	Structural and functional evaluation of cortical motor areas in Amyotrophic Lateral Sclerosis. <i>Experimental Neurology</i> , 2012, 234, 169-180.	4.1	70
20	Diffusion-weighted MR of the brain: methodology and clinical application. <i>Radiologia Medica</i> , 2005, 109, 155-97.	7.7	68
21	Lung Cancer Associated With Cystic Airspaces. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 102-108.	0.9	66
22	Risk-Benefit Analysis of X-Ray Exposure Associated with Lung Cancer Screening in the Italung-CT Trial. <i>American Journal of Roentgenology</i> , 2006, 187, 421-429.	2.2	65
23	Assessment of Brain White Matter Fiber Bundle Atrophy in Patients with Friedreich Ataxia. <i>Radiology</i> , 2010, 255, 882-889.	7.3	65
24	Single-voxel long TE 1H-MR spectroscopy of the normal brainstem and cerebellum. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 532-537.	3.4	64
25	Proton MR Spectroscopy of the Cerebellum and Pons in Patients with Degenerative Ataxia. <i>Radiology</i> , 2002, 223, 371-378.	7.3	63
26	Whole-lung densitometry versus visual assessment of emphysema. <i>European Radiology</i> , 2009, 19, 1686-1692.	4.5	60
27	Prevalence and correlates of pulmonary emphysema in smokers and former smokers. A densitometric study of participants in the ITALUNG trial. <i>European Radiology</i> , 2009, 19, 58-66.	4.5	49
28	Prevalence and number of circulating tumour cells and microemboli at diagnosis of advanced NSCLC. <i>Journal of Cancer Research and Clinical Oncology</i> , 2016, 142, 195-200.	2.5	49
29	The burden of microstructural damage modulates cortical activation in elderly subjects with MCI and leukoaraiosis. A DTI and fMRI study. <i>Human Brain Mapping</i> , 2014, 35, 819-830.	3.6	48
30	White Matter Microstructural Damage in Small Vessel Disease Is Associated With Montreal Cognitive Assessment But Not With Mini Mental State Examination Performances. <i>Stroke</i> , 2015, 46, 262-264.	2.0	47
31	The ENIGMA-Epilepsy working group: Mapping disease from large data sets. <i>Human Brain Mapping</i> , 2022, 43, 113-128.	3.6	47
32	ADC mapping of neurodegeneration in the brainstem and cerebellum of patients with progressive ataxias. <i>NeuroImage</i> , 2004, 22, 698-705.	4.2	46
33	Expanding lacunae causing triventricular hydrocephalus. <i>Journal of Neurosurgery</i> , 1999, 91, 669-674.	1.6	45
34	Dose exposure in the ITALUNG trial of lung cancer screening with low-dose CT. <i>British Journal of Radiology</i> , 2012, 85, 1134-1139.	2.2	45
35	Brain structural damage in spinocerebellar ataxia type 2. A voxel-based morphometry study. <i>Movement Disorders</i> , 2008, 23, 899-903.	3.9	44
36	Consensus Paper: Radiological Biomarkers of Cerebellar Diseases. <i>Cerebellum</i> , 2015, 14, 175-196.	2.5	42

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37	Progression of Brain Atrophy in Spinocerebellar Ataxia Type 2: A Longitudinal Tensor-Based Morphometry Study. <i>PLoS ONE</i> , 2014, 9, e89410.	2.5	41
38	MRI and SPECT of midbrain and striatal degeneration in fragile X-associated tremor/ataxia syndrome. <i>Journal of Neurology</i> , 2008, 255, 144-146.	3.6	40
39	Magnetic resonance and nuclear medicine imaging in ataxias. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2012, 103, 85-110.	1.8	39
40	Movement disorders: role of imaging in diagnosis. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 239-256.	3.4	39
41	Failure of radiation therapy for brain involvement in Erdheim Chester disease. <i>Journal of Neuro-Oncology</i> , 2002, 59, 169-172.	2.9	37
42	Resting state fMRI regional homogeneity correlates with cognition measures in subcortical vascular cognitive impairment. <i>Journal of the Neurological Sciences</i> , 2017, 373, 1-6.	0.6	36
43	Contiguity of proactive and reactive inhibitory brain areas: a cognitive model based on ALE meta-analyses. <i>Brain Imaging and Behavior</i> , 2021, 15, 2199-2214.	2.1	35
44	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
45	Neurodegeneration in friedreich's ataxia is associated with a mixed activation pattern of the brain. A fMRI study. <i>Human Brain Mapping</i> , 2012, 33, 1780-1791.	3.6	33
46	Neuroimaging in mitochondrial disorders. <i>Essays in Biochemistry</i> , 2018, 62, 409-421.	4.7	32
47	Impact of cerebrospinal fluid contamination on brain metabolites evaluation with ¹ H-MR spectroscopy: A single voxel study of the cerebellar vermis in patients with degenerative ataxias. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 11-17.	3.4	31
48	Decreased and increased cortical activation coexist in de novo Parkinson's disease. <i>Experimental Neurology</i> , 2010, 224, 299-306.	4.1	30
49	Whole brain apparent diffusion coefficient histogram: A new tool for evaluation of leukoaraiosis. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 144-148.	3.4	29
50	Brain structural damage in spinocerebellar ataxia type 1. <i>Journal of Neurology</i> , 2008, 255, 1153-1158.	3.6	29
51	Hypoactivation of the primary sensorimotor cortex in de novo Parkinson's disease. <i>Neuroradiology</i> , 2012, 54, 261-268.	2.2	29
52	Subcortical Damage and Cortical Functional Changes in Men and Women with Fabry Disease: A Multifaceted MR Study. <i>Radiology</i> , 2006, 241, 492-500.	7.3	28
53	Brain Structure and Degeneration Staging in Friedreich Ataxia: Magnetic Resonance Imaging Volumetrics from the ENIGMA-Ataxia Working Group. <i>Annals of Neurology</i> , 2021, 90, 570-583.	5.3	27
54	Risk and Determinants of Dementia in Patients with Mild Cognitive Impairment and Brain Subcortical Vascular Changes: A Study of Clinical, Neuroimaging, and Biological Markers—The VMCI-Tuscany Study: Rationale, Design, and Methodology. <i>International Journal of Alzheimer's Disease</i> , 2012, 2012, 1-7.	2.0	26

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55	Proton MR spectroscopy of cerebellitis. <i>Magnetic Resonance Imaging</i> , 2002, 20, 619-622.	1.8	25
56	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
57	Multimodal lung cancer screening using the ITALUNG biomarker panel and low dose computed tomography. Results of the ITALUNG biomarker study. <i>International Journal of Cancer</i> , 2017, 141, 94-101.	5.1	25
58	Fragile X Premutation With Atypical Symptoms at Onset. <i>Archives of Neurology</i> , 2006, 63, 1135.	4.5	24
59	Low agreement of visual rating for detailed quantification of pulmonary emphysema in whole-lung CT. <i>Acta Radiologica</i> , 2012, 53, 53-60.	1.1	23
60	Spinocerebellar ataxias. <i>Neurological Sciences</i> , 2008, 29, 311-313.	1.9	22
61	Diffusion Tensor Imaging to Map Brain Microstructural Changes in CADASIL. <i>Journal of Neuroimaging</i> , 2017, 27, 85-91.	2.0	22
62	Circulating tumor cells and microemboli can differentiate malignant and benign pulmonary lesions. <i>Journal of Cancer</i> , 2017, 8, 2223-2230.	2.5	22
63	Histogram analysis of DTI-derived indices reveals pontocerebellar degeneration and its progression in SCA2. <i>PLoS ONE</i> , 2018, 13, e0200258.	2.5	22
64	Structural Complexity of the Cerebellum and Cerebral Cortex is Reduced in Spinocerebellar Ataxia Type 2. <i>Journal of Neuroimaging</i> , 2018, 28, 688-693.	2.0	22
65	Mapping Cortical Degeneration in ALS with Magnetization Transfer Ratio and Voxel-Based Morphometry. <i>PLoS ONE</i> , 2013, 8, e68279.	2.5	22
66	Brain Microbleeds 12 Years after Orthotopic Liver Transplantation in Val30Met Amyloidosis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2015, 24, e149-e151.	1.6	20
67	Lung cancer screening with low dose CT and radiation harmâ€”from prediction models to cancer incidence data. <i>Annals of Translational Medicine</i> , 2017, 5, 360-360.	1.7	20
68	Impulsivity trait and proactive cognitive control: An <sc>fMRI</sc> study. <i>European Journal of Neuroscience</i> , 2019, 49, 1171-1179.	2.6	18
69	Neuroimaging Applications in Chronic Ataxias. <i>International Review of Neurobiology</i> , 2018, 143, 109-162.	2.0	18
70	Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. <i>Brain</i> , 2022, 145, 1285-1298.	7.6	18
71	Screen-detected multiple primary lung cancers in the ITALUNG trial. <i>Journal of Thoracic Disease</i> , 2018, 10, 1058-1066.	1.4	16
72	DTI-derived indexes of brain WM correlate with cognitive performance in vascular MCI and small-vessel disease. A TBSS study. <i>Brain Imaging and Behavior</i> , 2019, 13, 594-602.	2.1	16

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73	Low-dose CT for lung cancer screening: position paper from the Italian college of thoracic radiology. <i>Radiologia Medica</i> , 2022, 127, 543-559.	7.7	16
74	Familial periventricular nodular heterotopia, epilepsy and Melnickâ€“Needles Syndrome caused by a singleFLNAmutation with combined gain-of-function and loss-of-function effects. <i>Journal of Medical Genetics</i> , 2015, 52, 405-412.	3.2	15
75	Failure of Tafamidis to Halt Progression of Ala36Pro TTR Oculomeningovascular Amyloidosis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, e212-e214.	1.6	15
76	Decreased cardiovascular mortality in the ITALUNG lung cancer screening trial: Analysis of underlying factors. <i>Lung Cancer</i> , 2019, 138, 72-78.	2.0	15
77	Defining the Intra-subject Variability of Whole-lung CT Densitometry in Two Lung Cancer Screening Trials. <i>Academic Radiology</i> , 2011, 18, 1403-1411.	2.5	14
78	Initial LDCT appearance of incident lung cancers in the ITALUNG trial. <i>European Journal of Radiology</i> , 2014, 83, 2080-2086.	2.6	14
79	Lower medulla hypoplasia in Friedreich ataxia: MR Imaging confirmation 140Âyears later. <i>Journal of Neurology</i> , 2017, 264, 1526-1528.	3.6	14
80	Mouse Tracking to Explore Motor Inhibition Processes in Go/No-Go and Stop Signal Tasks. <i>Brain Sciences</i> , 2020, 10, 464.	2.3	13
81	Is intrathoracic tracheal collapsibility correlated to clinical phenotypes and sex in patients with COPD?. <i>International Journal of COPD</i> , 2015, 10, 843.	2.3	12
82	Relevance of brain lesion location for cognition in vascular mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2019, 22, 101789.	2.7	12
83	Left inferior frontal cortex can compensate the inhibitory functions of right inferior frontal cortex and preâ€“supplementary motor area. <i>Journal of Neuropsychology</i> , 2019, 13, 503-508.	1.4	12
84	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
85	Functional Magnetic Resonance Imaging of Inhibitory Control Reveals Decreased Blood Oxygen Level Dependent Effect in Cerebral Autosomal Dominant Arteriopathy With Subcortical Infarcts and Leukoencephalopathy. <i>Stroke</i> , 2019, 50, 69-75.	2.0	11
86	Neural Correlates of Gender Face Perception in Transgender People. <i>Journal of Clinical Medicine</i> , 2020, 9, 1731.	2.4	11
87	Moderate-severe coronary calcification predicts long-term cardiovascular death in CT lung cancer screening: The ITALUNG trial. <i>European Journal of Radiology</i> , 2021, 145, 110040.	2.6	11
88	Eventâ€“based modeling in temporal lobe epilepsy demonstrates progressive atrophy from crossâ€“sectional data. <i>Epilepsia</i> , 2022, 63, 2081-2095.	5.1	11
89	MRâ€“compatible device for monitoring hand tracing and writing tasks in fMRI with an application to healthy subjects. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2010, 36A, 139-152.	0.5	10
90	Gender, ageâ€“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

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91	Coronary microvascular function is impaired in patients with cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy. <i>European Journal of Neurology</i> , 2020, 28, 3809-3813.	3.3	9
92	Neuroimaging Biomarkers in SCA2 Gene Carriers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1020.	4.1	9
93	The incremental value of computed tomography of COVID-19 pneumonia in predicting ICU admission. <i>Scientific Reports</i> , 2021, 11, 15619.	3.3	7
94	Gender effect in the ITALUNG screening trial. A comparison with UKLS and other trials. <i>Lancet Regional Health - Europe</i> , The, 2022, 13, 100300.	5.6	7
95	Computation of brain metabolite ratios in single-voxel proton MR spectroscopy: comparison between semiautomatic and automatic software. <i>Radiologia Medica</i> , 2010, 115, 125-132.	7.7	6
96	Effectiveness of 3D T2-Weighted FLAIR FSE Sequences with Fat Suppression for Detection of Brain MR Imaging Signal Changes in Children. <i>American Journal of Neuroradiology</i> , 2016, 37, 2376-2381.	2.4	6
97	Fast Progression of Cerebellar Atrophy in PLA2G6-Associated Infantile Neuronal Axonal Dystrophy. <i>Cerebellum</i> , 2017, 16, 742-745.	2.5	6
98	Development of digital phantoms based on a finite element model to simulate low-attenuation areas in CT imaging for pulmonary emphysema quantification. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1561-1570.	2.8	6
99	Nuclear medicine of the cerebellum. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 154, 251-266.	1.8	6
100	Prognostic selection and long-term survival analysis to assess overdiagnosis risk in lung cancer screening randomized trials. <i>Journal of Medical Screening</i> , 2021, 28, 39-47.	2.3	6
101	Changes in Volume-corrected Whole-lung Density in Smokers and Former Smokers During the ITALUNG Screening Trial. <i>Journal of Thoracic Imaging</i> , 2012, 27, 255-262.	1.5	5
102	Hemicerebellitis can drive handedness shift. <i>Cerebellum and Ataxias</i> , 2017, 4, 14.	1.9	4
103	Altered Regional Brain Homogeneity of BOLD Signal in CADASIL: A Resting State fMRI Study. <i>Journal of Neuroimaging</i> , 2021, 31, 348-355.	2.0	4
104	The m.3890G>A/MT-ND1 mtDNA rare pathogenic variant: Expanding clinical and MRI phenotypes. <i>Mitochondrion</i> , 2021, 60, 142-149.	3.4	4
105	Pontine hyperperfusion in sporadic hyperekplexia. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2007, 78, 1001-1004.	1.9	3
106	Teaching Neuro <i>Images</i> : Spinal cord gray matter involvement in complex I deficiency mitochondriopathy. <i>Neurology</i> , 2016, 87, e106-7.	1.1	3
107	Mediastinal Lymphadenopathy in Lung Cancer Screening: A Red Flag. <i>Radiology</i> , 2022, 302, 695-696.	7.3	3
108	Cerebellar hyperperfusion in semantic dementia. <i>Neurocase</i> , 2014, 20, 175-182.	0.6	2

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109	Development and analysis of a finite element model to simulate pulmonary emphysema in CT imaging. , 2015, 2015, 6370-3.		2
110	Central precocious puberty due to hypothalamic hamartoma in neurofibromatosis type 1. Hormones, 2016, 15, 144-146.	1.9	2
111	Lung Cancer Associated with Cystic Airspaces in the Screening Perspective. Annals of Surgical Oncology, 2020, 27, 960-961.	1.5	2
112	Lung Cancer Screening, Emphysema, and COPD. Chest, 2021, 159, 1699-1700.	0.8	2
113	The fMRI correlates of visuo-spatial abilities: sex differences and gender dysphoria. Brain Imaging and Behavior, 2022, 16, 955-964.	2.1	2
114	Low MT ratio in hippocampus of amnesic MCI patients who will progress to AD. Journal of Neurology, 2016, 263, 1024-1026.	3.6	1
115	Isolated recurrent myelitis in a 7-year-old child with serum aquaporin-4 IgG antibodies. Journal of Neurology, 2017, 264, 179-181.	3.6	1
116	Risk of Second Lung Cancer in ITALUNG LDCT Screening. Journal of Thoracic Oncology, 2018, 13, e105-e106.	1.1	1
117	Handedness Side and Magnetization Transfer Ratio in the Primary Sensorimotor Cortex Central Sulcus. BioMed Research International, 2019, 2019, 1-7.	1.9	1
118	Conventional MRI features in progressive ataxias. Splitting or clumping?. Neuroradiology, 2021, 63, 1745-1746.	2.2	1
119	Isolated amyloidotic nodule of the lung with a malignant growth rate. European Journal of Radiology Extra, 2004, 50, 13-15.	0.1	0
120	Movement disorders: role of imaging in diagnosis. Journal of Magnetic Resonance Imaging, 2012, 35, spcone-spcone.	3.4	0
121	In Response. Journal of Thoracic Oncology, 2013, 8, e102-e103.	1.1	0
122	Gender, age-related, and regional differences of the magnetization transfer ratio of the cortical and subcortical brain gray matter. Journal of Magnetic Resonance Imaging, 2014, 40, spcone-spcone.	3.4	0
123	Acute and subacute ataxia. , 0, , 144-165.		0
124	Can Trace-Weighted Images Be Used to Estimate Diffusional Kurtosis Imagingâ€™Derived Indices of Non-Gaussian Water Diffusion in Head and Neck Cancer?. American Journal of Neuroradiology, 2019, 40, E44-E45.	2.4	0
125	Gadolinium Deposition Disease and T1 Hyperintensity of the Gray Matter Nuclei: An Inconsequential Link. Journal of the American College of Radiology, 2020, 17, 981.	1.8	0
126	The switch from Gd-DTPA to Gd-DOTA is not associated with decrease of the T1 signal intensity of the pallidus and dentate in a pediatric population. Acta Radiologica, 2021, 62, 368-376.	1.1	0

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127	Pulmonary function tests and computed tomography lung attenuation in chronic obstructive pulmonary disease. <i>Journal of Thoracic Disease</i> , 2015, 7, 1882-4.	1.4	0
128	MRI CNS Atrophy Pattern and the Etiologies of Progressive Ataxias. <i>Tomography</i> , 2022, 8, 423-437.	1.8	0
129	The Strange Case of the Multiple MRI Phenotypes of RFC1 Mutation. <i>Cerebellum</i> , 2022, , 1.	2.5	0