Francesco Santini

List of Publications by Year
in descending order

60	1,189	566801 15	433756 31
papers	citations	h-index	g-index

66	66	66	2144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MRI lung lobe segmentation in pediatric cystic fibrosis patients using a recurrent neural network trained with publicly accessible CT datasets. Magnetic Resonance in Medicine, 2022, 88, 391-405.	1.9	4
2	Dynamic magnetic resonance imaging of muscle contraction in facioscapulohumeral muscular dystrophy. Scientific Reports, 2022, 12, 7250.	1.6	3
3	Texture analysis and machine learning to predict water T2 and fat fraction from non-quantitative MRI of thigh muscles in Facioscapulohumeral muscular dystrophy. European Journal of Radiology, 2021, 134, 109460.	1.2	15
4	Oneâ€minute wholeâ€brain magnetization transfer ratio imaging with intrinsic B 1 â€correction. Magnetic Resonance in Medicine, 2021, 85, 2686-2695.	1.9	1
5	Variable echo time imaging for detecting the short T2* components of the sciatic nerve: a validation study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 411-419.	1.1	1
6	The impact of segmentation on wholeâ€lung functional MRI quantification: Repeatability and reproducibility from multiple human observers and an artificial neural network. Magnetic Resonance in Medicine, 2021, 85, 1079-1092.	1.9	16
7	Daily Caffeine Intake Induces Concentration-Dependent Medial Temporal Plasticity in Humans: A Multimodal Double-Blind Randomized Controlled Trial. Cerebral Cortex, 2021, 31, 3096-3106.	1.6	16
8	Fast Open-Source Toolkit for Water T2 Mapping in the Presence of Fat From Multi-Echo Spin-Echo Acquisitions for Muscle MRI. Frontiers in Neurology, 2021, 12, 630387.	1.1	9
9	Combination of Quantitative MRI Fat Fraction and Texture Analysis to Evaluate Spastic Muscles of Children With Cerebral Palsy. Frontiers in Neurology, 2021, 12, 633808.	1.1	5
10	Pilot Study on Quantitative Cervical Cord and Muscular MRI in Spinal Muscular Atrophy: Promising Biomarkers of Disease Evolution and Treatment?. Frontiers in Neurology, 2021, 12, 613834.	1.1	7
11	In vitro evaluation of cerebrospinal fluid velocity measurement in type I Chiari malformation: repeatability, reproducibility, and agreement using 2D phase contrast and 4D flow MRI. Fluids and Barriers of the CNS, 2021, 18, 12.	2.4	12
12	Quantification and Monitoring of the Effect of Botulinum Toxin A on Paretic Calf Muscles of Children With Cerebral Palsy With MRI: A Preliminary Study. Frontiers in Neurology, 2021, 12, 630435.	1.1	5
13	Deep learning for automatic segmentation of thigh and leg muscles. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, , 1.	1.1	9
14	Longitudinal Quantitative MRI Evaluation of Muscle Involvement in Amyotrophic Lateral Sclerosis. Frontiers in Neurology, 2021, 12, 749736.	1.1	3
15	Time to Recover From Daily Caffeine Intake. Frontiers in Nutrition, 2021, 8, 787225.	1.6	7
16	Editorial: Imaging of Neuromuscular Diseases. Frontiers in Neurology, 2021, 12, 814579.	1.1	3
17	Dynamic MR imaging of the skeletal muscle in young and senior volunteers during synchronized minimal neuromuscular electrical stimulation. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 393-400.	1.1	5
18	On the optimal temporal resolution for phase contrast cardiovascular magnetic resonance imaging: establishment of baseline values. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 72.	1.6	3

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19	Variability of MRI Aortic Stiffness Measurements in a Multicenter Clinical Trial Setting: Intraobserver, Interobserver, and Intracenter Variability of Pulse Wave Velocity and Aortic Strain Measurement. Radiology: Cardiothoracic Imaging, 2020, 2, e190090.	0.9	7
20	Ultrasound-driven cardiac MRI. Physica Medica, 2020, 70, 161-168.	0.4	3
21	Dynamic MRI of plantar flexion: A comprehensive repeatability study of electrical stimulation-gated muscle contraction standardized on evoked force. PLoS ONE, 2020, 15, e0241832.	1.1	3
22	Exploration of New Contrasts, Targets, and MR Imaging and Spectroscopy Techniques for Neuromuscular Disease â€“ A Workshop Report of Working Group 3 of the Biomedicine and Molecular Biosciences COST Action BM1304 MYO-MRI. Journal of Neuromuscular Diseases, 2019, 6, 1-30.	1.1	46
23	Design and construction of an innovative brain phantom prototype for MRI. Magnetic Resonance in Medicine, 2019, 81, 1165-1171.	1.9	13
24	Inter-reader variation in lung segmentation of functional lung MRI quantification. , 2019, , .		1
25	Signal enhancement ratio imaging of the lung parenchyma with ultraâ€fast steadyâ€state free precession MRI at 1.5T. Journal of Magnetic Resonance Imaging, 2018, 48, 48-57.	1.9	2
26	Hybrid ultrasoundâ€•MR guided HIFU treatment method with 3 D motion compensation. Magnetic Resonance in Medicine, 2018, 79, 2511-2523.	1.9	15
27	Dynamic and steadyâ€state oxygenâ€dependent lung relaxometry using inversion recovery ultraâ€fast steadyâ€state free precession imaging at 1.5 T. Magnetic Resonance in Medicine, 2018, 79, 839-845.	1.9	5
28	OpenForce <scp>MR</scp>: A lowâ€cost openâ€source MRâ€compatible force sensor. Concepts in Magnetic Resonance Part B, 2018, 48B, .	0.3	3
29	Signal enhancement ratio imaging of the lung parenchyma with ultra-fast steady-state free precession MRI at 1.5T. Journal of Magnetic Resonance Imaging, 2018, 48, spcone-spcone.	1.9	0
30	Synchronous MRI of muscle motion induced by electrical stimulation. Magnetic Resonance in Medicine, 2017, 77, 664-672.	1.9	15
31	Pulmonary relaxometry with inversion recovery ultraâ€fast steadyâ€state free precession at 1.5T. Magnetic Resonance in Medicine, 2017, 77, 74-82.	1.9	10
32	Nanoparticle-based highly sensitive MRI contrast agents with enhanced relaxivity in reductive milieu. Chemical Communications, 2016, 52, 9937-9940.	2.2	9
33	Generation and characterization of osteochondral grafts with human nasal chondrocytes. Journal of Orthopaedic Research, 2015, 33, 1111-1119.	1.2	12
34	Simultaneous acquisition of image and navigator slices using CAIPIRINHA for 4D MRI. Magnetic Resonance in Medicine, 2015, 73, 669-676.	1.9	23
35	Simultaneous T₁ and T₂ quantification of the myocardium using cardiac balancedâ€SSFP inversion recovery with interleaved sampling acquisition (CABIRIA). Magnetic Resonance in Medicine, 2015, 74, 365-371.	1.9	47
36	Continuous positive airway pressure alters cranial blood flow and cerebrospinal fluid dynamics at the craniovertebral junction. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2015, 2, 152-159.	0.2	12

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37	Attenuation of Blood Flow Pulsatility along the Atlas Slope: A Physiologic Property of the Distal Vertebral Artery?. American Journal of Neuroradiology, 2015, 36, 562-567.	1.2	9
38	Neural underpinnings of background acoustic noise in normal aging and mild cognitive impairment. Neuroscience, 2015, 310, 410-421.	1.1	4
39	Real-time method for motion-compensated MR thermometry and MRgHIFU treatment in abdominal organs. Magnetic Resonance in Medicine, 2014, 72, 1087-1095.	1.9	41
40	Peak Velocity Measurements in Tortuous Arteries With Phase Contrast Magnetic Resonance Imaging. Investigative Radiology, 2014, 49, 189-194.	3.5	14
41	In-vivo assessment of normal T1 values of the right-ventricular myocardium by cardiac MRI. International Journal of Cardiovascular Imaging, 2014, 30, 323-328.	0.7	30
42	Fat-Suppression Techniques for 3-T MR Imaging of the Musculoskeletal System. Radiographics, 2014, 34, 217-233.	1.4	262
43	Effect of protein binding substances on T1 times and the partition coefficient in contrast-enhanced cardiac magnetic resonance imaging. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E15.	1.6	0
44	Intracranial artery velocity measurement using 4D PC MRI at 3ÂT: comparison with transcranial ultrasound techniques and 2D PC MRI. Neuroradiology, 2013, 55, 389-398.	1.1	62
45	â€mapping with the transient phase of unbalanced steadyâ€state free precession. Magnetic Resonance in Medicine, 2013, 70, 1515-1523.	1.9	15
46	Hybrid Ultrasound/Magnetic Resonance Simultaneous Acquisition and Image Fusion for Motion Monitoring in the Upper Abdomen. Investigative Radiology, 2013, 48, 333-340.	3.5	43
47	Normal response of cardiac flow and function to adenosine stress as assessed by cardiac MR. Journal of Cardiovascular Medicine, 2012, 13, 720-726.	0.6	1
48	The protein binding substance Ibuprofen does not affect the T1 time or partition coefficient in contrast-enhanced cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 69.	1.6	5
49	Partition coefficients for gadolinium chelates in the normal myocardium: Comparison of gadopentetate dimeglumine and gadobenate dimeglumine. Journal of Magnetic Resonance Imaging, 2012, 36, 733-737.	1.9	17
50	Diffusion-weighted imaging in acute demyelinating myelopathy. Neuroradiology, 2012, 54, 573-578.	1.1	14
51	Integrated active tracking detector for MRIâ€guided interventions. Magnetic Resonance in Medicine, 2012, 67, 290-296.	1.9	23
52	Continuous Positive Airway Pressure Impacts Cerebral Blood Flow and Cerebrospinal Fluid Motion: A Phase Contrast MRI Study. , 2012, , .		0
53	IceLuva: A scripting framework for MR image reconstruction based on free software. Concepts in Magnetic Resonance Part B, 2011, 39B, 1-10.	0.3	22
54	Dampening of Blood-Flow Pulsatility along the Carotid Siphon: Does Form Follow Function?. American Journal of Neuroradiology, 2011, 32, 1107-1112.	1.2	43

#	Article	IF	Citations
55	A 3D in vitro bone organ model using human progenitor cells. , 2011, 21, 445-458.		85
56	Nano Imaging Technologies: Polymer vesicles loaded with precipitated gadolinium nanoparticles: A novel target-specific contrast agent for magnetic resonance imaging. European Journal of Nanomedicine, 2009, 2, .	0.6	10
57	Timeâ€resolved threeâ€dimensional (3D) phaseâ€contrast (PC) balanced steadyâ€state free precession (bSSFP). Magnetic Resonance in Medicine, 2009, 62, 966-974.	1.9	24
58	Face Reconstruction from Skull Shapes and Physical Attributes. Lecture Notes in Computer Science, 2009, , 232-241.	1.0	30
59	In vivo visualization and analysis of 3-D hemodynamics in cerebral aneurysms with flow-sensitized 4-D MR imaging at 3ÂT. Neuroradiology, 2008, 50, 473-484.	1.1	69
60	Doubleâ€reference crossâ€correlation algorithm for separation of the arteries and veins from 3D MRA time series. Journal of Magnetic Resonance Imaging, 2008, 28, 646-654.	1.9	11