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	Fat-Suppression Techniques for 3-T MR Imaging of the Musculoskeletal System. Radiographics, 2014, 34, 217-233.	1.4	262
2	A 3D in vitro bone organ model using human progenitor cells. , 2011, 21, 445-458.		85
3	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
4	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
5	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
6	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
7	Dampening of Blood-Flow Pulsatility along the Carotid Siphon: Does Form Follow Function?. American Journal of Neuroradiology, 2011, 32, 1107-1112.	1.2	43
8	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
9	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
10	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
11	Face Reconstruction from Skull Shapes and Physical Attributes. Lecture Notes in Computer Science, 2009, , 232-241.	1.0	30
12	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
13	Integrated active tracking detector for MRIâ€guided interventions. Magnetic Resonance in Medicine, 2012, 67, 290-296.	1.9	23
14	Simultaneous acquisition of image and navigator slices using CAIPIRINHA for 4D MRI. Magnetic Resonance in Medicine, 2015, 73, 669-676.	1.9	23
15	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
16	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
17	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
18	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

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19	â€mapping with the transient phase of unbalanced steadyâ€state free precession. Magnetic Resonance in Medicine, 2013, 70, 1515-1523.	1.9	15
20	Synchronous MRI of muscle motion induced by electrical stimulation. Magnetic Resonance in Medicine, 2017, 77, 664-672.	1.9	15
21	Hybrid ultrasoundâ€•MR guided HIFU treatment method with 3 D motion compensation. Magnetic Resonance in Medicine, 2018, 79, 2511-2523.	1.9	15
22	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
23	Diffusion-weighted imaging in acute demyelinating myelopathy. Neuroradiology, 2012, 54, 573-578.	1.1	14
24	Peak Velocity Measurements in Tortuous Arteries With Phase Contrast Magnetic Resonance Imaging. Investigative Radiology, 2014, 49, 189-194.	3.5	14
25	Design and construction of an innovative brain phantom prototype for MRI. Magnetic Resonance in Medicine, 2019, 81, 1165-1171.	1.9	13
26	Generation and characterization of osteochondral grafts with human nasal chondrocytes. Journal of Orthopaedic Research, 2015, 33, 1111-1119.	1.2	12
27	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
28	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
29	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
30	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
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	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
33	Nanoparticle-based highly sensitive MRI contrast agents with enhanced relaxivity in reductive milieu. Chemical Communications, 2016, 52, 9937-9940.	2.2	9
34	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
35	Deep learning for automatic segmentation of thigh and leg muscles. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, , 1.	1.1	9
36	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

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37	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
38	Time to Recover From Daily Caffeine Intake. Frontiers in Nutrition, 2021, 8, 787225.	1.6	7
39	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
40	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
41	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
42	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
43	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
44	Neural underpinnings of background acoustic noise in normal aging and mild cognitive impairment. Neuroscience, 2015, 310, 410-421.	1.1	4
45	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
46	OpenForce <scp>MR</scp>: A lowâ€cost openâ€source MRâ€compatible force sensor. Concepts in Magnetic Resonance Part B, 2018, 48B, .	0.3	3
47	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
48	Ultrasound-driven cardiac MRI. Physica Medica, 2020, 70, 161-168.	0.4	3
49	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
50	Longitudinal Quantitative MRI Evaluation of Muscle Involvement in Amyotrophic Lateral Sclerosis. Frontiers in Neurology, 2021, 12, 749736.	1.1	3
51	Editorial: Imaging of Neuromuscular Diseases. Frontiers in Neurology, 2021, 12, 814579.	1.1	3
52	Dynamic magnetic resonance imaging of muscle contraction in facioscapulohumeral muscular dystrophy. Scientific Reports, 2022, 12, 7250.	1.6	3
53	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
54	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

#	Article	IF	Citations
55	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
56	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
57	Inter-reader variation in lung segmentation of functional lung MRI quantification. , 2019, , .		1
58	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
59	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
60	Continuous Positive Airway Pressure Impacts Cerebral Blood Flow and Cerebrospinal Fluid Motion: A Phase Contrast MRI Study. , 2012, , .		0