

# Davide Piccini

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,506  
citations

393982

19  
h-index

329751

37  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiral phyllotaxis: The natural way to construct a 3D radial trajectory in MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1049-1056.	1.9	122
2	Respiratory self-navigated whole-heart bright-blood coronary MRI: Methods for robust isolation and automatic segmentation of the blood pool. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 571-579.	1.9	117
3	Compressed Sensing Single-Breath-Hold CMR for Fast Quantification of LV Function, Volumes, and Mass. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 882-892.	2.3	116
4	5D whole-heart sparse MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 826-838.	1.9	112
5	Respiratory Self-navigated Postcontrast Whole-Heart Coronary MR Angiography: Initial Experience in Patients. <i>Radiology</i> , 2014, 270, 378-386.	3.6	96
6	Free-running 4D whole-heart self-navigated golden angle MRI: Initial results. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1306-1316.	1.9	91
7	Four-dimensional respiratory motion-resolved whole heart coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1473-1484.	1.9	74
8	An automated approach to fully self-gated free-running cardiac and respiratory motion-resolved 5D whole-heart MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2118-2132.	1.9	57
9	Self-navigated isotropic three-dimensional cardiac T <sub>2</sub> mapping. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1549-1554.	1.9	51
10	Single centre experience of the application of self navigated 3D whole heart cardiovascular magnetic resonance for the assessment of cardiac anatomy in congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 55.	1.6	42
11	Reduction of respiratory motion artifacts for free-breathing whole-heart coronary MRA by weighted iterative reconstruction. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1885-1895.	1.9	39
12	Simultaneous Evaluation of Lung Anatomy and Ventilation Using 4D Respiratory Motion-Resolved Ultrashort Echo Time Sparse MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 411-422.	1.9	35
13	A non-contrast self-navigated 3-dimensional MR technique for aortic root and vascular access route assessment in the context of transcatheter aortic valve replacement: proof of concept. <i>European Radiology</i> , 2016, 26, 951-958.	2.3	31
14	5D Flow MRI: A Fully Self-gated, Free-running Framework for Cardiac and Respiratory Motion-resolved 3D Hemodynamics. <i>Radiology: Cardiothoracic Imaging</i> , 2020, 2, e200219.	0.9	30
15	High-resolution 3D whole-heart coronary MRA: a study on the combination of data acquisition in multiple breath-holds and 1D residual respiratory motion compensation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 435-443.	1.1	28
16	A double echo ultra short echo time (UTE) acquisition for respiratory motion-suppressed high resolution imaging of the lung. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2297-2305.	1.9	28
17	An iterative approach to respiratory self-navigated whole-heart coronary MRA significantly improves image quality in a preliminary patient study. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1594-1604.	1.9	25
18	Improved border sharpness of post-infarct scar by a novel self-navigated free-breathing high-resolution 3D whole-heart inversion recovery magnetic resonance approach. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 1735-1744.	0.7	22

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19	Nonenhanced arterial spin labeled carotid MR angiography using three-dimensional radial balanced steady-state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1150-1156.	1.9	21
20	Diagnostic Accuracy of Noncontrast Self-navigated Free-breathing MR Angiography versus CT Angiography: A Prospective Study in Pediatric Patients with Suspected Anomalous Coronary Arteries. <i>Academic Radiology</i> , 2019, 26, 1309-1317.	1.3	20
21	Arterial spin labeled carotid MR angiography: A phantom study examining the impact of technical and hemodynamic factors. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 295-301.	1.9	19
22	Chemical shift encoding (CSE) for sensitive fluorine-19 MRI of perfluorocarbons with complex spectra. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2724-2730.	1.9	19
23	Is there an optimal respiratory reference position for self-navigated whole-heart coronary MR angiography?. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 426-433.	1.9	18
24	Technical Feasibility of a Combined Noncontrast Magnetic Resonance Protocol for Preoperative Transcatheter Aortic Valve Replacement Evaluation. <i>Journal of Thoracic Imaging</i> , 2018, 33, 60-67.	0.8	18
25	Natively fat-suppressed 5D whole-heart MRI with a radial free-running fast-interrupted steady-state (FISS) sequence at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 45-55.	1.9	18
26	Deep Learning to Automate Reference-Free Image Quality Assessment of Whole-Heart MR Images. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190123.	3.0	18
27	3D Dixon water-fat LGE imaging with image navigator and compressed sensing in cardiac MRI. <i>European Radiology</i> , 2021, 31, 3951-3961.	2.3	17
28	Self-Navigation with Compressed Sensing for 2D Translational Motion Correction in Free-Breathing Coronary MRI: A Feasibility Study. <i>PLoS ONE</i> , 2014, 9, e105523.	1.1	17
29	Coronary artery assessment using self-navigated free-breathing radial whole-heart magnetic resonance angiography in patients with congenital heart disease. <i>European Radiology</i> , 2018, 28, 1267-1275.	2.3	15
30	Noncontrast free-breathing respiratory self-navigated coronary artery cardiovascular magnetic resonance angiography at 3T using lipid insensitive binomial off-resonant excitation (LIBRE). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 38.	1.6	15
31	Free-running 5D coronary MR angiography at 1.5T using LIBRE water excitation pulses. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1470-1485.	1.9	15
32	Motion compensated whole-heart coronary cardiovascular magnetic resonance angiography using focused navigation (fNAV). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 33.	1.6	15
33	Using 5D flow MRI to decode the effects of rhythm on left atrial 3D flow dynamics in patients with atrial fibrillation. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3125-3139.	1.9	14
34	Three-Dimensional Self-Navigated T2 Mapping for the Detection of Acute Cellular Rejection After Orthotopic Heart Transplantation. <i>Transplantation Direct</i> , 2017, 3, e149.	0.8	12
35	Cardiovascular morphometry with high-resolution 3D magnetic resonance: First application to left ventricle diastolic dysfunction. <i>Medical Engineering and Physics</i> , 2017, 47, 64-71.	0.8	12
36	Self-navigated 3D whole-heart MRA for non-enhanced surveillance of thoracic aortic dilation: A comparison to CTA. <i>Magnetic Resonance Imaging</i> , 2021, 76, 123-130.	1.0	11

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37	A quantitative comparison between a navigated Cartesian and a self-navigated radial protocol from clinical studies for free-breathing 3D whole-heart bSSFP coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 157-169.	1.9	10
38	Free-running cardiac and respiratory motion-resolved 5D whole-heart coronary cardiovascular magnetic resonance angiography in pediatric cardiac patients using ferumoxytol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, 39.	1.6	10
39	Correcting versus resolving respiratory motion in free-breathing whole-heart MRA: a comparison in patients with thoracic aortic disease. <i>European Radiology Experimental</i> , 2019, 3, 29.	1.7	9
40	Measurement accuracy of prototype non-contrast, compressed sensing-based, respiratory motion-resolved whole heart cardiovascular magnetic resonance angiography for the assessment of thoracic aortic dilatation: comparison with computed tomography angiography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 7.	1.6	7
41	Self-navigated versus navigator-gated 3D MRI sequence for non-enhanced aortic root measurement in transcatheter aortic valve implantation. <i>European Journal of Radiology</i> , 2021, 137, 109573.	1.2	7
42	2D cine vs. 3D self-navigated free-breathing high-resolution whole heart cardiovascular magnetic resonance for aortic root measurements in congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 65.	1.6	7
43	MR Volumetry of Lung Nodules: A Pilot Study. <i>Frontiers in Medicine</i> , 2019, 6, 18.	1.2	6
44	A black-blood ultra-short echo time (UTE) sequence for 3D isotropic resolution imaging of the lungs. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3808-3818.	1.9	6
45	Similarity-driven multi-dimensional binning algorithm (SIMBA) for free-running motion-suppressed whole-heart MRA. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 213-229.	1.9	6
46	New parametric 3D snake for medical segmentation of structures with cylindrical topology. , 2015, , .		5
47	Distributed Memory-Efficient Physics-Guided Deep Learning Reconstruction for Large-Scale 3d Non-Cartesian MRI. , 2022, , .		4
48	Improved respiratory self-navigation for 3D radial acquisitions through the use of a pencil-beam 2D kT <sub>2</sub> prep for free-breathing, whole-heart coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1293-1303.	1.9	3
49	Radial self-navigated native magnetic resonance angiography in comparison to navigator-gated contrast-enhanced MRA of the entire thoracic aorta in an aortic patient collective. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 94.	1.6	3
50	Respiratory Motion-Registered Isotropic Whole-Heart T2 Mapping in Patients With Acute Non-ischemic Myocardial Injury. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 712383.	1.1	3
51	Dynamic self-navigated 3D whole-heart radial coronary MRA with retrospective acquisition window selection. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, O18.	1.6	2
52	Noncontrast Hybrid Arterial Spin-Labeled Imaging of the Intracranial Arteries. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 854-860.	0.5	2
53	Respiratory optimized data selection for more resilient self-navigated whole-heart coronary MR angiography. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 215-225.	1.1	2
54	Self-navigated free-breathing isotropic 3D whole heart MRI for the characterization of complex cardiac anatomy in patients with congenital heart malformations. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, P12.	1.6	1

#	ARTICLE	IF	CITATIONS
55	Volumetric coronary endothelial function assessment: a feasibility study exploiting stackâ€ofâ€stars 3D cine MRI and imageâ€based respiratory selfâ€gating. NMR in Biomedicine, 2021, 34, e4589.	1.6	0