Gilles Je Soulat

List of Publications by Year
in descending order

80	972	471061 17	500791 28
papers	citations	h-index	g-index

83	83	83	1386
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Myocardial Stiffness Evaluation Using Noninvasive Shear Wave Imaging in Healthy and Hypertrophic Cardiomyopathic Adults. JACC: Cardiovascular Imaging, 2019, 12, 1135-1145.	2.3	108
2	Fabry disease in cardiology practice: Literature review and expert point of view. Archives of Cardiovascular Diseases, 2019, 112, 278-287.	0.7	69
3	Assessment of left atrial function by MRI myocardial feature tracking. Journal of Magnetic Resonance Imaging, 2015, 42, 379-389.	1.9	56
4	4D Flow with MRI. Annual Review of Biomedical Engineering, 2020, 22, 103-126.	5.7	53
5	Left atrial aging: a cardiac magnetic resonance feature-tracking study. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H542-H549.	1.5	43
6	Association of Regional Wall Shear Stress and Progressive Ascending Aorta Dilation in Bicuspid Aortic Valve. JACC: Cardiovascular Imaging, 2022, 15, 33-42.	2.3	37
7	Longitudinal strain of systemic right ventricle correlates with exercise capacity in adult with transposition of the great arteries after atrial switch. International Journal of Cardiology, 2016, 217, 28-34.	0.8	30
8	Resistant Hypertension and Atherosclerotic Renal Artery Stenosis. Hypertension, 2019, 74, 1516-1523.	1.3	27
9	Parametric Hemodynamic 4D Flow MRI Maps for the Characterization of Chronic Thoracic Descending Aortic Dissection. Journal of Magnetic Resonance Imaging, 2020, 51, 1357-1368.	1.9	27
10	Comparison of different methods for the estimation of aortic pulse wave velocity from 4D flow cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 75.	1.6	26
11	Scan-rescan reproducibility of ventricular and atrial MRI feature tracking strain. Computers in Biology and Medicine, 2018, 92, 197-203.	3.9	26
12	Numerical assessment and comparison of pulse wave velocity methods aiming at measuring aortic stiffness. Physiological Measurement, 2017, 38, 1953-1967.	1.2	25
13	Aortic Wall Elastic Properties in Case of Bicuspid Aortic Valve. Frontiers in Physiology, 2019, 10, 299.	1.3	23
14	Aldosterone-Related Myocardial Extracellular Matrix Expansion in Hypertension in Humans. JACC: Cardiovascular Imaging, 2020, 13, 2149-2159.	2.3	23
15	Immune checkpoint inhibitors myocarditis: not all cases are clinically patent. European Heart Journal, 2018, 39, 3553.	1.0	21
16	French recommendations for the management of Takayasuâ€™s arteritis. Orphanet Journal of Rare Diseases, 2021, 16, 311.	1.2	21
17	Role of myocardial collagen degradation and fibrosis in right ventricle dysfunction in transposition of the great arteries after atrial switch. International Journal of Cardiology, 2018, 258, 76-82.	0.8	20
18	Visual lung damage CT score at hospital admission of COVID-19 patients and 30-day mortality. European Radiology, 2021, 31, 8354-8363.	2.3	20

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19	Left Ventricle Replacement Fibrosis Detected by CMR Associated With Cardiovascular Events in Systemic Sclerosis Patients. Journal of the American College of Cardiology, 2018, 71, 703-705.	1.2	19
20	Periodontal disease: a new factor associated with the presence of multiple complex coronary lesions. Journal of Clinical Periodontology, 2012, 39, 38-44.	2.3	18
21	Changes in segmental pulse wave velocity of the thoracic aorta with age and left ventricular remodelling. An MRI 4D flow study. Journal of Hypertension, 2020, 38, 118-126.	0.3	18
22	Analysis of aortic pressure fields from 4D flow MRI in healthy volunteers: Associations with age and left ventricular remodeling. Journal of Magnetic Resonance Imaging, 2019, 50, 982-993.	1.9	17
23	Investigation of Aortic Wall Thickness, Stiffness and Flow Reversal in Patients With Cryptogenic Stroke: A 4D Flow MRI Study. Journal of Magnetic Resonance Imaging, 2021, 53, 942-952.	1.9	17
24	Differential impact of local and regional aortic stiffness on left ventricular remodeling. Journal of Hypertension, 2018, 36, 552-559.	0.3	14
25	New estimate of valvuloarterial impedance in aortic valve stenosis: A cardiac magnetic resonance study. Journal of Magnetic Resonance Imaging, 2017, 45, 795-803.	1.9	11
26	Catheter ablation of intra-atrial reentrant/focal atrial tachycardia in adult congenital heart disease: Value of final programmed atrial stimulation. Heart Rhythm, 2020, 17, 1953-1959.	0.3	11
27	Association between coronary artery calcifications and 6-month mortality in hospitalized patients with COVID-19. Diagnostic and Interventional Imaging, 2021, 102, 717-725.	1.8	11
28	Impaired atrioventricular transport in patients with transposition of the great arteries palliated by atrial switch and preserved systolic right ventricular function: A magnetic resonance imaging study. Congenital Heart Disease, 2017, 12, 458-466.	0.0	10
29	Association of calcium density in the thoracic aorta with risk factors and clinical events. European Radiology, 2020, 30, 3960-3967.	2.3	10
30	Aortic Pulse Wave Velocity Evaluated by <scp>4D</scp> Flow <scp>MRI</scp> Across the Adult Lifespan. Journal of Magnetic Resonance Imaging, 2022, 56, 464-473.	1.9	10
31	Long-Term Engraftment (16 Years) of Myoblasts in a Human Infarcted Heart. Stem Cells Translational Medicine, 2018, 7, 705-708.	1.6	9
32	Impact of simultaneous measurement of central blood pressure with the SphygmoCor Xcel during MRI acquisition to better estimate aortic distensibility. Journal of Hypertension, 2019, 37, 1448-1454.	0.3	9
33	Neopulmonary Outflow Tract Obstruction Assessment by 4D Flow MRI in Adults With Transposition of the Great Arteries After Arterial Switch Operation. Journal of Magnetic Resonance Imaging, 2020, 51, 1699-1705.	1.9	9
34	Thoracic Aorta Calcium Detection and Quantification Using Convolutional Neural Networks in a Large Cohort of Intermediate-Risk Patients. Tomography, 2021, 7, 636-649.	0.8	9
35	Transbaffle/transconduit puncture using a simple CARTOâ€guided approach without echocardiography in patients with congenital heart disease. Journal of Cardiovascular Electrophysiology, 2020, 31, 2049-2060.	0.8	8
36	Comprehensive assessment of local and regional aortic stiffness in patients with tricuspid or bicuspid aortic valve aortopathy using magnetic resonance imaging. International Journal of Cardiology, 2021, 326, 206-212.	0.8	8

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37	Left ventricular diastolic early and late filling quantified from 4D flow magnetic resonance imaging. Diagnostic and Interventional Imaging, 2022, 103, 345-352.	1.8	8
38	Quantitative <scp>magnetic resonance imaging</scp> measures of <scp>threeâ€dimensional</scp> aortic morphology in healthy aging and hypertension. Journal of Magnetic Resonance Imaging, 2021, 53, 1471-1483.	1.9	7
39	Starrâ€“Edwards aortic valve: 50+ years and still going strong: a case report. European Heart Journal - Case Reports, 2017, 1, ytx014.	0.3	6
40	Automatic correction of background phase offset in 4D-flow of great vessels and of the heart in MRI using a third-order surface model. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 629-642.	1.1	6
41	Catheter ablation in adults with congenital heart disease: A 15-year perspective from a tertiary centre. Archives of Cardiovascular Diseases, 2021, 114, 455-464.	0.7	6
42	Direct mitral regurgitation quantification in hypertrophic cardiomyopathy using 4D flow CMR jet tracking: evaluation in comparison to conventional CMR. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 138.	1.6	6
43	4D flow MRI derived aortic hemodynamics multi-year follow-up in repaired coarctation with bicuspid aortic valve. Diagnostic and Interventional Imaging, 2022, 103, 418-426.	1.8	6
44	Kinetic index combining native and postcontrast myocardial T1 in hypertrophic cardiomyopathy. Journal of Magnetic Resonance Imaging, 2015, 42, 1713-1722.	1.9	5
45	Coronary CT angiography for chest pain in pseudoxanthoma elasticum and cardiac intervention management. Journal of Cardiovascular Computed Tomography, 2015, 9, 238-241.	0.7	5
46	Predictors of low exercise cardiac output in patients with severe pulmonic regurgitation. Heart, 2021, 107, 223-228.	1.2	5
47	Myocardial infarction with normal coronary arteries in double heterozygous sickle-cell disease. International Journal of Cardiology, 2015, 180, 120-121.	0.8	4
48	Right ventricular diastolic function in aging: a head-to-head comparison between phase-contrast MRI and Doppler echocardiography. International Journal of Cardiovascular Imaging, 2021, 37, 663-674.	0.7	4
49	Transconduit puncture without per-procedural echocardiography in nonfenestrated extracardiac Fontan using a simplified approach guided by electroanatomic mapping. Heart Rhythm, 2018, 15, 631-632.	0.3	3
50	4D flow MRI left atrial kinetic energy in hypertrophic cardiomyopathy is associated with mitral regurgitation and left ventricular outflow tract obstruction. International Journal of Cardiovascular Imaging, 2021, 37, 2755-2765.	0.7	3
51	Cactus aorta. European Heart Journal, 2017, 38, 3325-3326.	1.0	2
52	Systemic right ventricular takotsubo cardiomyopathy. European Heart Journal, 2018, 39, 3980-3981.	1.0	2
53	Reply to Comment on â€˜Numerical assessment and comparison of pulse wave velocity methods aiming at measuring aortic stiffnessâ€™. Physiological Measurement, 2018, 39, 078002.	1.2	2
54	Intra-atrial re-entrant tachycardia around atretic tricuspid annulus. Europace, 2019, 21, 1889-1889.	0.7	2

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55	Temporal registration: a new approach to manage the incomplete recovery of the longitudinal magnetization in the Modified Look-Locker Inversion Recovery sequence (MOLLI) for T1 mapping of the heart. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 569-580.	1.1	2
56	Renin Angiotensin System Inhibitors Reduce Aortic Stiffness and Flow Reversal After a Cryptogenic Stroke. Journal of Magnetic Resonance Imaging, 2021, 53, 213-221.	1.9	2
57	Coronary artery calcifications and 6-month mortality in patients with COVID-19 without known atheromatous disease. Archives of Cardiovascular Diseases, 2022, , .	0.7	2
58	Assessment of isolated left ventricular non-compaction by multimodality imaging. International Journal of Cardiology, 2013, 168, e72-e73.	0.8	1
59	Pixel-wise absolute pressures in the aortic arch from 3D MRI velocity data and carotid artery applanation tonometry. , 2014, 2014, 5105-8.		1
60	Inter-study repeatability of left ventricular strain measurement using feature tracking on MRI cine images. , 2015, , .		1
61	Accuracy and Inter observer variability of blood flow quantification on 4D flow MRI in adult with transposition of the great arteries corrected by arterial switch. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P153.	1.6	1
62	Relative Aortic Blood Pressure Using 4D Flow MRI: Associations with Age and Aortic Tapering. , 2017, , .		1
63	Blunt Cardiac Injuries Due to Rubber Bullets. Circulation: Cardiovascular Imaging, 2020, 13, e010485.	1.3	1
64	Multimodal imaging of a giant left ventricular basal aneurysm and resulting intracardiac flow disturbances. European Heart Journal Cardiovascular Imaging, 2020, 21, 1050-1050.	0.5	1
65	Magnetic Resonance Imaging Screening for Postinfarct Life-Threatening Ventricular Arrhythmia. JACC: Cardiovascular Imaging, 2021, 14, 2479-2481.	2.3	1
66	Coronary artery disease in adults with Noonan syndrome: Case series and literature review. Archives of Cardiovascular Diseases, 2021, 114, 598-605.	0.7	1
67	Assessment of Aortic Pulse Wave Velocity Using 4D Flow Magnetic Resonance Imaging: Methods Comparison. , 0, , .		1
68	Diastolic Function Assessment of Left and Right Ventricles by <scp>MRI</scp> in Systemic Sclerosis Patients. Journal of Magnetic Resonance Imaging, 2022, , .	1.9	1
69	3D myocardial wall stress assessed by cardiac magnetic resonance and non invasive aortic blood pressure in patients with severe aortic valve stenosis. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P17.	1.6	0
70	Valsalva sinus asymmetry in bicuspid aortic valve: diameter through fused cusp is smaller than diameter through nonfused cusp but maximal diameter is the same whatever the phenotype when estimated by CMR. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P203.	1.6	0
71	Associations between native myocardial T1 and diastolic function evaluated by PC-CMR in patients with severe aortic valve stenosis. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q18.	1.6	0
72	Atrio-ventricular coupling in patients with transposition of the great arteries after atrial switch by Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q94.	1.6	0

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73	Comprehensive assessment of Valsalva sinus ruptured by using 4D flow cardiac magnetic resonance. European Heart Journal Cardiovascular Imaging, 2016, 17, 1318-1318.	0.5	0
74	Paradoxical right heart failure due to persistent ductus arteriosus. European Heart Journal Cardiovascular Imaging, 2018, 19, 240-240.	0.5	0
75	Too big for echocardiography. European Heart Journal, 2018, 39, 1576-1576.	1.0	0
76	Standford type A aortic dissection causing myocardial infarction by compressing the left main coronary artery. Coronary Artery Disease, 2021, Publish Ahead of Print, 740.	0.3	0
77	A fast and reproducible method to estimate left atrial volume using cardiac computed tomography. Diagnostic and Interventional Imaging, 2021, 102, 413-420.	1.8	0
78	The Differential Meaning of LV and LA Strains in Aortic Valve Stenosis: A Feature Tracking MRI Study. , 0, , .		0
79	Evaluation of Left Ventricular Diastolic Function Using 4D Flow Magnetic Resonance Imaging. , 0, , .		0
80	Bicuspid aortic valve morphology and hemodynamics by same-day echocardiography and cardiac MRI. International Journal of Cardiovascular Imaging, 2022, 38, 2047-2056.	0.7	0