

# Gilles Je Soulat

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

972  
citations

471061

17  
h-index

500791

28  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Association of Regional Wall Shear Stress and Progressive Ascending Aorta Dilatation in Bicuspid Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 33-42.	2.3	37
2	Aortic Pulse Wave Velocity Evaluated by <scp>4D</scp> Flow <scp>MRI</scp> Across the Adult Lifespan. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 464-473.	1.9	10
3	Left ventricular diastolic early and late filling quantified from 4D flow magnetic resonance imaging. <i>Diagnostic and Interventional Imaging</i> , 2022, 103, 345-352.	1.8	8
4	Coronary artery calcifications and 6-month mortality in patients with COVID-19 without known atheromatous disease. <i>Archives of Cardiovascular Diseases</i> , 2022, , .	0.7	2
5	Diastolic Function Assessment of Left and Right Ventricles by <scp>MRI</scp> in Systemic Sclerosis Patients. <i>Journal of Magnetic Resonance Imaging</i> , 2022, , .	1.9	1
6	Bicuspid aortic valve morphology and hemodynamics by same-day echocardiography and cardiac MRI. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 2047-2056.	0.7	0
7	4D flow MRI derived aortic hemodynamics multi-year follow-up in repaired coarctation with bicuspid aortic valve. <i>Diagnostic and Interventional Imaging</i> , 2022, 103, 418-426.	1.8	6
8	Right ventricular diastolic function in aging: a head-to-head comparison between phase-contrast MRI and Doppler echocardiography. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 663-674.	0.7	4
9	Renin Angiotensin System Inhibitors Reduce Aortic Stiffness and Flow Reversal After a Cryptogenic Stroke. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 213-221.	1.9	2
10	Investigation of Aortic Wall Thickness, Stiffness and Flow Reversal in Patients With Cryptogenic Stroke: A 4D Flow MRI Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 942-952.	1.9	17
11	Stanford type A aortic dissection causing myocardial infarction by compressing the left main coronary artery. <i>Coronary Artery Disease</i> , 2021, Publish Ahead of Print, 740.	0.3	0
12	Quantitative <scp>magnetic resonance imaging</scp> measures of <scp>three-dimensional</scp> aortic morphology in healthy aging and hypertension. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1471-1483.	1.9	7
13	4D flow MRI left atrial kinetic energy in hypertrophic cardiomyopathy is associated with mitral regurgitation and left ventricular outflow tract obstruction. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 2755-2765.	0.7	3
14	Comprehensive assessment of local and regional aortic stiffness in patients with tricuspid or bicuspid aortic valve aortopathy using magnetic resonance imaging. <i>International Journal of Cardiology</i> , 2021, 326, 206-212.	0.8	8
15	Visual lung damage CT score at hospital admission of COVID-19 patients and 30-day mortality. <i>European Radiology</i> , 2021, 31, 8354-8363.	2.3	20
16	Catheter ablation in adults with congenital heart disease: A 15-year perspective from a tertiary centre. <i>Archives of Cardiovascular Diseases</i> , 2021, 114, 455-464.	0.7	6
17	French recommendations for the management of Takayasu's arteritis. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 311.	1.2	21
18	A fast and reproducible method to estimate left atrial volume using cardiac computed tomography. <i>Diagnostic and Interventional Imaging</i> , 2021, 102, 413-420.	1.8	0

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19	Association between coronary artery calcifications and 6-month mortality in hospitalized patients with COVID-19. <i>Diagnostic and Interventional Imaging</i> , 2021, 102, 717-725.	1.8	11
20	Magnetic Resonance Imaging Screening for Postinfarct Life-Threatening Ventricular Arrhythmia. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2479-2481.	2.3	1
21	Coronary artery disease in adults with Noonan syndrome: Case series and literature review. <i>Archives of Cardiovascular Diseases</i> , 2021, 114, 598-605.	0.7	1
22	Predictors of low exercise cardiac output in patients with severe pulmonic regurgitation. <i>Heart</i> , 2021, 107, 223-228.	1.2	5
23	Thoracic Aorta Calcium Detection and Quantification Using Convolutional Neural Networks in a Large Cohort of Intermediate-Risk Patients. <i>Tomography</i> , 2021, 7, 636-649.	0.8	9
24	Direct mitral regurgitation quantification in hypertrophic cardiomyopathy using 4D flow CMR jet tracking: evaluation in comparison to conventional CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 138.	1.6	6
25	Parametric Hemodynamic 4D Flow MRI Maps for the Characterization of Chronic Thoracic Descending Aortic Dissection. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1357-1368.	1.9	27
26	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. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 569-580.	1.1	2
27	Changes in segmental pulse wave velocity of the thoracic aorta with age and left ventricular remodelling. An MRI 4D flow study. <i>Journal of Hypertension</i> , 2020, 38, 118-126.	0.3	18
28	Neopulmonary Outflow Tract Obstruction Assessment by 4D Flow MRI in Adults With Transposition of the Great Arteries After Arterial Switch Operation. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1699-1705.	1.9	9
29	Blunt Cardiac Injuries Due to Rubber Bullets. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e010485.	1.3	1
30	Aldosterone-Related Myocardial Extracellular Matrix Expansion in Hypertension in Humans. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2149-2159.	2.3	23
31	Multimodal imaging of a giant left ventricular basal aneurysm and resulting intracardiac flow disturbances. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 1050-1050.	0.5	1
32	Transbaffle/transconduit puncture using a simple CARTOâ€guided approach without echocardiography in patients with congenital heart disease. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 2049-2060.	0.8	8
33	4D Flow with MRI. <i>Annual Review of Biomedical Engineering</i> , 2020, 22, 103-126.	5.7	53
34	Catheter ablation of intra-atrial reentrant/focal atrial tachycardia in adult congenital heart disease: Value of final programmed atrial stimulation. <i>Heart Rhythm</i> , 2020, 17, 1953-1959.	0.3	11
35	Association of calcium density in the thoracic aorta with risk factors and clinical events. <i>European Radiology</i> , 2020, 30, 3960-3967.	2.3	10
36	Resistant Hypertension and Atherosclerotic Renal Artery Stenosis. <i>Hypertension</i> , 2019, 74, 1516-1523.	1.3	27

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37	Analysis of aortic pressure fields from 4D flow MRI in healthy volunteers: Associations with age and left ventricular remodeling. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 982-993.	1.9	17
38	Intra-atrial re-entrant tachycardia around atretic tricuspid annulus. <i>Europace</i> , 2019, 21, 1889-1889.	0.7	2
39	Automatic correction of background phase offset in 4D-flow of great vessels and of the heart in MRI using a third-order surface model. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 629-642.	1.1	6
40	Aortic Wall Elastic Properties in Case of Bicuspid Aortic Valve. <i>Frontiers in Physiology</i> , 2019, 10, 299.	1.3	23
41	Fabry disease in cardiology practice: Literature review and expert point of view. <i>Archives of Cardiovascular Diseases</i> , 2019, 112, 278-287.	0.7	69
42	Comparison of different methods for the estimation of aortic pulse wave velocity from 4D flow cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 75.	1.6	26
43	Impact of simultaneous measurement of central blood pressure with the SphygmoCor Xcel during MRI acquisition to better estimate aortic distensibility. <i>Journal of Hypertension</i> , 2019, 37, 1448-1454.	0.3	9
44	Myocardial Stiffness Evaluation Using Noninvasive Shear Wave Imaging in Healthy and Hypertrophic Cardiomyopathic Adults. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1135-1145.	2.3	108
45	Role of myocardial collagen degradation and fibrosis in right ventricle dysfunction in transposition of the great arteries after atrial switch. <i>International Journal of Cardiology</i> , 2018, 258, 76-82.	0.8	20
46	Differential impact of local and regional aortic stiffness on left ventricular remodeling. <i>Journal of Hypertension</i> , 2018, 36, 552-559.	0.3	14
47	Transconduit puncture without per-procedural echocardiography in nonfenestrated extracardiac Fontan using a simplified approach guided by electroanatomic mapping. <i>Heart Rhythm</i> , 2018, 15, 631-632.	0.3	3
48	Left Ventricle Replacement Fibrosis Detected by CMR Associated With Cardiovascular Events in Systemic Sclerosis Patients. <i>Journal of the American College of Cardiology</i> , 2018, 71, 703-705.	1.2	19
49	Paradoxical right heart failure due to persistent ductus arteriosus. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 240-240.	0.5	0
50	Too big for echocardiography. <i>European Heart Journal</i> , 2018, 39, 1576-1576.	1.0	0
51	Systemic right ventricular takotsubo cardiomyopathy. <i>European Heart Journal</i> , 2018, 39, 3980-3981.	1.0	2
52	Long-Term Engraftment (16 Years) of Myoblasts in a Human Infarcted Heart. <i>Stem Cells Translational Medicine</i> , 2018, 7, 705-708.	1.6	9
53	Immune checkpoint inhibitors myocarditis: not all cases are clinically patent. <i>European Heart Journal</i> , 2018, 39, 3553.	1.0	21
54	Reply to Comment on "Numerical assessment and comparison of pulse wave velocity methods aiming at measuring aortic stiffness". <i>Physiological Measurement</i> , 2018, 39, 078002.	1.2	2

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55	Scan-rescan reproducibility of ventricular and atrial MRI feature tracking strain. <i>Computers in Biology and Medicine</i> , 2018, 92, 197-203.	3.9	26
56	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. <i>Congenital Heart Disease</i> , 2017, 12, 458-466.	0.0	10
57	Cactus aorta. <i>European Heart Journal</i> , 2017, 38, 3325-3326.	1.0	2
58	Numerical assessment and comparison of pulse wave velocity methods aiming at measuring aortic stiffness. <i>Physiological Measurement</i> , 2017, 38, 1953-1967.	1.2	25
59	New estimate of valvuloarterial impedance in aortic valve stenosis: A cardiac magnetic resonance study. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 795-803.	1.9	11
60	Starrâ€“Edwards aortic valve: 50+ years and still going strong: a case report. <i>European Heart Journal - Case Reports</i> , 2017, 1, ytx014.	0.3	6
61	Relative Aortic Blood Pressure Using 4D Flow MRI: Associations with Age and Aortic Tapering. , 2017, , .		1
62	Comprehensive assessment of Valsalva sinus ruptured by using 4D flow cardiac magnetic resonance. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 1318-1318.	0.5	0
63	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P153.	1.6	1
64	Longitudinal strain of systemic right ventricle correlates with exercise capacity in adult with transposition of the great arteries after atrial switch. <i>International Journal of Cardiology</i> , 2016, 217, 28-34.	0.8	30
65	Left atrial aging: a cardiac magnetic resonance feature-tracking study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H542-H549.	1.5	43
66	Inter-study repeatability of left ventricular strain measurement using feature tracking on MRI cine images. , 2015, , .		1
67	Kinetic index combining native and postcontrast myocardial T1 in hypertrophic cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1713-1722.	1.9	5
68	3D myocardial wall stress assessed by cardiac magnetic resonance and non invasive aortic blood pressure in patients with severe aortic valve stenosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, P17.	1.6	0
69	Assessment of left atrial function by MRI myocardial feature tracking. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 379-389.	1.9	56
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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, Q94.	1.6	0

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73	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
74	Myocardial infarction with normal coronary arteries in double heterozygous sickle-cell disease. International Journal of Cardiology, 2015, 180, 120-121.	0.8	4
75	Pixel-wise absolute pressures in the aortic arch from 3D MRI velocity data and carotid artery applanation tonometry. , 2014, 2014, 5105-8.		1
76	Assessment of isolated left ventricular non-compaction by multimodality imaging. International Journal of Cardiology, 2013, 168, e72-e73.	0.8	1
77	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
78	Assessment of Aortic Pulse Wave Velocity Using 4D Flow Magnetic Resonance Imaging: Methods Comparison. , 0, , .		1
79	The Differential Meaning of LV and LA Strains in Aortic Valve Stenosis: A Feature Tracking MRI Study. , 0, , .		0
80	Evaluation of Left Ventricular Diastolic Function Using 4D Flow Magnetic Resonance Imaging. , 0, , .		0