

# SÃ©bastien Roujol

## List of Publications by Year in descending order

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72  
papers

2,234  
citations

257357

24  
h-index

233338

45  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of balanced SSFP myocardial perfusion imaging at 1.5 T: Impact of the reference image. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 702-717.	1.9	0
2	Simultaneous multislice steady-state free precession myocardial perfusion with full left ventricular coverage and high resolution at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 663-675.	1.9	5
3	Simultaneous multi-slice steady-state free precession myocardial perfusion with iterative reconstruction and integrated motion compensation. <i>European Journal of Radiology</i> , 2022, 151, 110286.	1.2	0
4	MRI for Guided Right and Left Heart Cardiac Catheterization: A Prospective Study in Congenital Heart Disease. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1446-1457.	1.9	16
5	Quantitative magnetization transfer imaging for non-contrast enhanced detection of myocardial fibrosis. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2069-2083.	1.9	1
6	A fast navigator (fastNAV) for prospective respiratory motion correction in first-pass myocardial perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2661-2671.	1.9	6
7	All-systolic first-pass myocardial rest perfusion at a long saturation time using simultaneous multi-slice imaging and compressed sensing acceleration. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 663-676.	1.9	3
8	Editorial for "Impact of Wideband Late Gadolinium Enhancement Cardiac Magnetic Resonance Imaging on Device-Related Artifacts in Different Implantable Cardioverter-Defibrillator Types". <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 1266-1267.	1.9	0
9	FASt single-breathhold 2D multislice myocardial T1 mapping (FASt1) at 1.5T for full left ventricular coverage in three breathholds. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 492-504.	1.9	6
10	Development and Testing of an Ultrasound-Compatible Cardiac Phantom for Interventional Procedure Simulation Using Direct Three-Dimensional Printing. <i>3D Printing and Additive Manufacturing</i> , 2020, 7, 269-278.	1.4	7
11	Combined simultaneous multislice bSSFP and compressed sensing for first-pass myocardial perfusion at 1.5 T with high spatial resolution and coverage. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3103-3116.	1.9	15
12	Invasive cardiovascular magnetic resonance (iCMR) for diagnostic right and left heart catheterization using an MR-conditional guidewire and passive visualization in congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 20.	1.6	28
13	Contrast-free high-resolution 3D magnetization transfer imaging for simultaneous myocardial scar and cardiac vein visualization. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 627-640.	1.1	4
14	Autocalibrated cardiac tissue phase mapping with multiband imaging and k-t acceleration. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2429-2441.	1.9	3
15	Specialized Mapping Methods in the Heart. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020, 1, 91-121.	0.0	0
16	Factors Promoting Conduction Slowing as Substrates for Block and Reentry in Infarcted Hearts. <i>Biophysical Journal</i> , 2019, 117, 2361-2374.	0.2	31
17	Improved co-registration of ex-vivo and in-vivo cardiovascular magnetic resonance images using heart-specific flexible 3D printed acrylic scaffold combined with non-rigid registration. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 62.	1.6	10
18	Evaluation of a real-time magnetic resonance imaging-guided electrophysiology system for structural and electrophysiological ventricular tachycardia substrate assessment. <i>Europace</i> , 2019, 21, 1432-1441.	0.7	9

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19	Advances in Real-Time MRIâ€‘Guided Electrophysiology. Current Cardiovascular Imaging Reports, 2019, 12, 6.	0.4	22
20	Fast myocardial T<sub>1</sub> mapping using shortened inversion recovery based schemes. Journal of Magnetic Resonance Imaging, 2019, 50, 641-654.	1.9	7
21	Optimal Technique for Measurement of Linear Left Ventricular Dimensions. Journal of the American Society of Echocardiography, 2019, 32, 476-483.e1.	1.2	15
22	Nonâ€‘contrast enhanced simultaneous 3D wholeâ€‘heart brightâ€‘blood pulmonary veins visualization and blackâ€‘blood quantification of atrial wall thickness. Magnetic Resonance in Medicine, 2019, 81, 1066-1079.	1.9	20
23	Simultaneous 13N-Ammonia and gadolinium first-pass myocardial perfusion with quantitative hybrid PET-MR imaging: a phantom and clinical feasibility study. European Journal of Hybrid Imaging, 2019, 3, 15.	0.6	10
24	Epicardial electroanatomical mapping, radiofrequency ablation, and lesion imaging in the porcine left ventricle under real-time magnetic resonance imaging guidanceâ€‘an in vivo feasibility study. Europace, 2018, 20, f254-f262.	0.7	25
25	Accelerated wholeâ€‘heart MR angiography using a variableâ€‘density poissonâ€‘disc undersampling pattern and compressed sensing reconstruction. Magnetic Resonance in Medicine, 2018, 79, 761-769.	1.9	9
26	Simultaneous multi slice (SMS) balanced steady state free precession first-pass myocardial perfusion cardiovascular magnetic resonance with iterative reconstruction at 1.5ÃˆT. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 84.	1.6	33
27	The reproducibility of late gadolinium enhancement cardiovascular magnetic resonance imaging of post-ablation atrial scar: a cross-over study. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 21.	1.6	46
28	Diffuse myocardial fibrosis in patients with mitral valve prolapse and ventricular arrhythmia. Heart, 2017, 103, 204-209.	1.2	109
29	Joint myocardial T<sub>1</sub> and T<sub>2</sub> mapping using a combination of saturation recovery and T<sub>2</sub>-preparation. Magnetic Resonance in Medicine, 2016, 76, 888-896.	1.9	57
30	Free-breathing slice-interleaved myocardial T<sub>2</sub> mapping with slice-selective T<sub>2</sub>-magnetization preparation. Magnetic Resonance in Medicine, 2016, 76, 555-565.	1.9	16
31	Comparison of spoiled gradient echo and steadyâ€‘state freeâ€‘precession imaging for native myocardial T<sub>1</sub> mapping using the sliceâ€‘interleaved T<sub>1</sub> mapping (STONE) sequence. NMR in Biomedicine, 2016, 29, 1486-1496.	1.6	10
32	High-Resolution Mapping of Ventricular Scar. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	122
33	Native Myocardial T1 as a Biomarker of Cardiac Structure in Non-Ischemic Cardiomyopathy. American Journal of Cardiology, 2016, 117, 282-288.	0.7	21
34	Left ventricular native T1 time and the risk of atrial fibrillation recurrence after pulmonary vein isolation in patients with paroxysmal atrial fibrillation. International Journal of Cardiology, 2016, 203, 848-854.	0.8	11
35	A swine model of infarct-related reentrant ventricular tachycardia: Electroanatomic, magnetic resonance, and histopathological characterization. Heart Rhythm, 2016, 13, 262-273.	0.3	95
36	Relationship between native papillary muscle T1 time and severity of functional mitral regurgitation in patients with non-ischemic dilated cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 79.	1.6	11

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37	Improved passive catheter tracking with positive contrast for CMR-guided cardiac catheterization using partial saturation (pSAT). Journal of Cardiovascular Magnetic Resonance, 2016, 19, 60.	1.6	22
38	Impact of motion correction on reproducibility and spatial variability of quantitative myocardial T2 mapping. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 46.	1.6	21
39	Accelerated cardiac MR stress perfusion with radial sampling after physical exercise with an MR-compatible supine bicycle ergometer. Magnetic Resonance in Medicine, 2015, 74, 384-395.	1.9	20
40	Free-breathing post-contrast three-dimensional T <sub>1</sub> mapping: Volumetric assessment of myocardial T <sub>1</sub> values. Magnetic Resonance in Medicine, 2015, 73, 214-222.	1.9	35
41	Adaptive registration of varying contrast-weighted images for improved tissue characterization (ARCTIC): Application to T <sub>1</sub> mapping. Magnetic Resonance in Medicine, 2015, 73, 1469-1482.	1.9	63
42	Free-breathing multislice native myocardial T <sub>1</sub> mapping using the slice-interleaved T <sub>1</sub> (STONE) sequence. Magnetic Resonance in Medicine, 2015, 74, 115-124.	1.9	83
43	Whole Heart Coronary Imaging with Flexible Acquisition Window and Trigger Delay. PLoS ONE, 2015, 10, e0112020.	1.1	7
44	Improved quantitative myocardial T <sub>2</sub> mapping: Impact of the fitting model. Magnetic Resonance in Medicine, 2015, 74, 93-105.	1.9	57
45	Free-breathing combined three-dimensional phase sensitive late gadolinium enhancement and T <sub>1</sub> mapping for myocardial tissue characterization. Magnetic Resonance in Medicine, 2015, 74, 1032-1041.	1.9	27
46	On the selection of sampling points for myocardial T <sub>1</sub> mapping. Magnetic Resonance in Medicine, 2015, 73, 1741-1753.	1.9	31
47	3D late gadolinium enhancement in a single prolonged breath-hold using supplemental oxygenation and hyperventilation. Magnetic Resonance in Medicine, 2014, 72, 850-857.	1.9	14
48	Accuracy, Precision, and Reproducibility of Four T1 Mapping Sequences: A Head-to-Head Comparison of MOLLI, ShMOLLI, SASHA, and SAPPHIRE. Radiology, 2014, 272, 683-689.	3.6	255
49	Free-breathing cardiac MR stress perfusion with real-time slice tracking. Magnetic Resonance in Medicine, 2014, 72, 689-698.	1.9	14
50	Three-dimensional heart locator for whole-heart coronary magnetic resonance angiography. Magnetic Resonance in Medicine, 2014, 71, 2118-2126.	1.9	23
51	Accelerated free breathing ECG triggered contrast enhanced pulmonary vein magnetic resonance angiography using compressed sensing. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 91.	1.6	15
52	Motion Correction Techniques for MR-Guided HIFU Ablation of Abdominal Organs. , 2014, , 355-376.		1
53	Software platform for flexible automated reconstruction of CMR data in a clinically feasible workflow. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W9.	1.6	1
54	Accuracy and reproducibility of four T1 mapping sequences: a head-to-head comparison of MOLLI, ShMOLLI, SASHA, and SAPPHIRE. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O26.	1.6	3

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55	Towards cardiac and respiratory motion characterization from electrophysiology data for improved real time MR-integration. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P68.	1.6	2
56	Extended Kalman Filtering for Continuous Volumetric MR-Temperature Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 711-718.	5.4	21
57	Improved Multimodality Data Fusion of Late Gadolinium Enhancement MRI to Left Ventricular Voltage Maps in Ventricular Tachycardia Ablation. IEEE Transactions on Biomedical Engineering, 2013, 60, 1308-1317.	2.5	15
58	Freeâ€Breathing 3D Cardiac MRI Using Iterative Imageâ€Based Respiratory Motion Correction. Magnetic Resonance in Medicine, 2013, 70, 1005-1015.	1.9	17
59	Characterization of Respiratory and Cardiac Motion from Electro-Anatomical Mapping Data for Improved Fusion of MRI to Left Ventricular Electrograms. PLoS ONE, 2013, 8, e78852.	1.1	21
60	Robust Real-Time-Constrained Estimation of Respiratory Motion for Interventional MRI on Mobile Organs. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 365-374.	3.6	14
61	Robust Adaptive Extended Kalman Filtering for Real Time MR-Thermometry Guided HIFU Interventions. IEEE Transactions on Medical Imaging, 2012, 31, 533-542.	5.4	40
62	Towards optimized MR thermometry of the human heart at 3T. NMR in Biomedicine, 2012, 25, 35-43.	1.6	12
63	Feasibility of fast MRâ€thermometry during cardiac radiofrequency ablation. NMR in Biomedicine, 2012, 25, 556-562.	1.6	31
64	Automatic Nonrigid Calibration of Image Registration for Real Time MR-Guided HIFU Ablations of Mobile Organs. IEEE Transactions on Medical Imaging, 2011, 30, 1737-1745.	5.4	18
65	Real-time MR-thermometry and dosimetry for interventional guidance on abdominal organs. Magnetic Resonance in Medicine, 2010, 63, 1080-1087.	1.9	180
66	Motion correction in MR thermometry of abdominal organs: A comparison of the referenceless vs. the multibaseline approach. Magnetic Resonance in Medicine, 2010, 64, 1373-1381.	1.9	49
67	Realâ€time 3D target tracking in MRI guided focused ultrasound ablations in moving tissues. Magnetic Resonance in Medicine, 2010, 64, 1704-1712.	1.9	111
68	Inter-costal Liver Ablation Under Real Time MR-Thermometry With Partial Activation Of A HIFU Phased Array Transducer. AIP Conference Proceedings, 2010, , .	0.3	1
69	A method for MRI guidance of intercostal high intensity focused ultrasound ablation in the liver. Medical Physics, 2010, 37, 2533-2540.	1.6	107
70	Online realâ€time reconstruction of adaptive TSENSE with commodity CPU/GPU hardware. Magnetic Resonance in Medicine, 2009, 62, 1658-1664.	1.9	27
71	Improvement of MRIâ€functional measurement with automatic movement correction in native and transplanted kidneys. Journal of Magnetic Resonance Imaging, 2008, 28, 970-978.	1.9	41
72	Measurement of Glomerular Filtration Rate With Magnetic Resonance Imaging: Principles, Limitations, and Expectations. Seminars in Nuclear Medicine, 2008, 38, 47-55.	2.5	52