Sonia Nielles-Vallespin

List of Publications by Year
in descending order

23	967	567281 15	610901 24
papers	citations	h-index	g-index

24	24	24	921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of Myocardial Microstructural Dynamics by InÂVivo Diffusion Tensor Cardiac Magnetic Resonance. Journal of the American College of Cardiology, 2017, 69, 661-676.	2.8	171
2	In vivo diffusion tensor MRI of the human heart: Reproducibility of breathâ€hold and navigatorâ€based approaches. Magnetic Resonance in Medicine, 2013, 70, 454-465.	3.0	145
3	In vivo cardiovascular magnetic resonance diffusion tensor imaging shows evidence of abnormal myocardial laminar orientations and mobility in hypertrophic cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 87.	3.3	137
4	Reproducibility of in-vivo diffusion tensor cardiovascular magnetic resonance in hypertrophic cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 86.	3.3	78
5	An in-vivo comparison of stimulated-echo and motion compensated spin-echo sequences for 3ÂT diffusion tensor cardiovascular magnetic resonance at multiple cardiac phases. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 1.	3.3	78
6	Optimal diffusion weighting for in vivo cardiac diffusion tensor imaging. Magnetic Resonance in Medicine, 2015, 74, 420-430.	3.0	45
7	Diffusion Tensor Cardiovascular Magnetic Resonance Imaging. JACC: Cardiovascular Imaging, 2020, 13, 1235-1255.	5.3	45
8	Intercentre reproducibility of cardiac apparent diffusion coefficient and fractional anisotropy in healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 31.	3.3	33
9	The effects of noise in cardiac diffusion tensor imaging and the benefits of averaging complex data. NMR in Biomedicine, 2016, 29, 588-599.	2.8	32
10	Cardiac Diffusion: Technique and Practical Applications. Journal of Magnetic Resonance Imaging, 2020, 52, 348-368.	3.4	27
11	Automatic inâ€line quantitative myocardial perfusion mapping: Processing algorithm and implementation. Magnetic Resonance in Medicine, 2020, 83, 712-730.	3.0	27
12	Heterogeneity of Fractional Anisotropy and Mean Diffusivity Measurements by In Vivo Diffusion Tensor Imaging in Normal Human Hearts. PLoS ONE, 2015, 10, e0132360.	2.5	26
13	Diffusion Tensor Cardiovascular Magnetic Resonance of Microstructural Recovery in Dilated Cardiomyopathy. JACC: Cardiovascular Imaging, 2018, 11, 1548-1550.	5.3	18
14	Evaluation of the impact of strain correction on the orientation of cardiac diffusion tensors with in vivo and ex vivo porcine hearts. Magnetic Resonance in Medicine, 2018, 79, 2205-2215.	3.0	18
15	Novel insights into inâ€vivo diffusion tensor cardiovascular magnetic resonance using computational modelling and a histologyâ€based virtual microstructure. Magnetic Resonance in Medicine, 2019, 81, 2759-2773.	3.0	18
16	Deranged Myocyte Microstructure in Situs Inversus Totalis Demonstrated by Diffusion Tensor Cardiac Magnetic Resonance. JACC: Cardiovascular Imaging, 2018, 11, 1360-1362.	5.3	15
17	Automating in vivo cardiac diffusion tensor postprocessing with deep learningâ€“based segmentation. Magnetic Resonance in Medicine, 2020, 84, 2801-2814.	3.0	15
18	Diffusion tensor cardiovascular magnetic resonance with a spiral trajectory: An in vivo comparison of echo planar and spiral stimulated echo sequences. Magnetic Resonance in Medicine, 2018, 80, 648-654.	3.0	11

#	Article	IF	Citations
19	Motionâ€Induced Signal Loss in In Vivo Cardiac Diffusionâ€Weighted Imaging. Journal of Magnetic Resonance Imaging, 2020, 51, 319-320.	3.4	7
20	Accelerating Cardiac Diffusion Tensor Imaging With a Uâ€Net Based Model: Toward Single Breathâ€Hold. Journal of Magnetic Resonance Imaging, 2022, 56, 1691-1704.	3.4	7
21	High resolution inâ€vivo DTâ€CMR using an interleaved variable density spiral STEAM sequence. Magnetic Resonance in Medicine, 2019, 81, 1580-1594.	3.0	6
22	Diffusion tensor cardiovascular magnetic resonance in hypertrophic cardiomyopathy: a comparison of motion-compensated spin echo and stimulated echo techniques. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 331-342.	2.0	2
23	Development of a cardiovascular magnetic resonanceâ€compatible large animal isolated heart model for direct comparison of beating and arrested hearts. NMR in Biomedicine, 2022, , e4692.	2.8	2