

Sonia Nielles-Vallespin

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

967
citations

567281

15
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

921
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a cardiovascular magnetic resonance-compatible large animal isolated heart model for direct comparison of beating and arrested hearts. <i>NMR in Biomedicine</i> , 2022, , e4692.	2.8	2
2	Accelerating Cardiac Diffusion Tensor Imaging With a U-Net Based Model: Toward Single Breath-Hold. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1691-1704.	3.4	7
3	Motion-Induced Signal Loss in In Vivo Cardiac Diffusion-Weighted Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 319-320.	3.4	7
4	Cardiac Diffusion: Technique and Practical Applications. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 348-368.	3.4	27
5	Diffusion Tensor Cardiovascular Magnetic Resonance Imaging. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1235-1255.	5.3	45
6	Automatic in-line quantitative myocardial perfusion mapping: Processing algorithm and implementation. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 712-730.	3.0	27
7	Diffusion tensor cardiovascular magnetic resonance in hypertrophic cardiomyopathy: a comparison of motion-compensated spin echo and stimulated echo techniques. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 331-342.	2.0	2
8	Automating in vivo cardiac diffusion tensor postprocessing with deep learning-based segmentation. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2801-2814.	3.0	15
9	Novel insights into in-vivo diffusion tensor cardiovascular magnetic resonance using computational modelling and a histology-based virtual microstructure. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2759-2773.	3.0	18
10	High resolution in-vivo DT-CMR using an interleaved variable density spiral STEAM sequence. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1580-1594.	3.0	6
11	Deranged Myocyte Microstructure in Situs Inversus Totalis Demonstrated by Diffusion Tensor Cardiac Magnetic Resonance. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1360-1362.	5.3	15
12	Diffusion tensor cardiovascular magnetic resonance with a spiral trajectory: An in vivo comparison of echo planar and spiral stimulated echo sequences. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 648-654.	3.0	11
13	Diffusion Tensor Cardiovascular Magnetic Resonance of Microstructural Recovery in Dilated Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 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. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2205-2215.	3.0	18
15	An in-vivo comparison of stimulated-echo and motion compensated spin-echo sequences for 3T diffusion tensor cardiovascular magnetic resonance at multiple cardiac phases. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 1.	3.3	78
16	Assessment of Myocardial Microstructural Dynamics by In-Vivo Diffusion Tensor Cardiac Magnetic Resonance. <i>Journal of the American College of Cardiology</i> , 2017, 69, 661-676.	2.8	171
17	The effects of noise in cardiac diffusion tensor imaging and the benefits of averaging complex data. <i>NMR in Biomedicine</i> , 2016, 29, 588-599.	2.8	32
18	Optimal diffusion weighting for in vivo cardiac diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 420-430.	3.0	45

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Intercentre reproducibility of cardiac apparent diffusion coefficient and fractional anisotropy in healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 31.	3.3	33
22	In vivo diffusion tensor MRI of the human heart: Reproducibility of breath-hold and navigator-based approaches. Magnetic Resonance in Medicine, 2013, 70, 454-465.	3.0	145
23	Reproducibility of in-vivo diffusion tensor cardiovascular magnetic resonance in hypertrophic cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 86.	3.3	78