David E Sosnovik

List of Publications by Year
in descending order

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60 papers	2,877 citations	257450 24 h-index	175258 52 g-index
64 all docs	64 docs citations	64 times ranked	4079 citing authors

#	Article	IF	Citations
1	Manifoldâ€based respiratory phase estimation enables motion and distortion correction of freeâ€breathing cardiac diffusion tensor MRI. Magnetic Resonance in Medicine, 2022, 87, 474-487.	3.0	3
2	Detection and Characterization of Thrombosis in Humans Using Fibrin-Targeted Positron Emission Tomography and Magnetic Resonance. JACC: Cardiovascular Imaging, 2022, 15, 504-515.	5.3	12
3	Validation of cardiac diffusion tensor imaging sequences: A multicentre testâ€“retest phantom study. NMR in Biomedicine, 2022, 35, e4685.	2.8	2
4	Biomedical Imaging in Experimental Models of Cardiovascular Disease. Circulation Research, 2022, 130, 1851-1868.	4.5	6
5	Advances in cardiac PET/MR imaging: Facilitating cutting-edge structural and biological phenotyping of the cardiovascular system. Journal of Nuclear Cardiology, 2021, 28, 2026-2029.	2.1	2
6	Freeâ€breathing diffusion tensor MRI of the whole left ventricle using secondâ€order motion compensation and multitasking respiratory motion correction. Magnetic Resonance in Medicine, 2021, 85, 2634-2648.	3.0	16
7	Magnetic Resonance-Based Characterization of Myocardial Architecture. Heart Failure Clinics, 2021, 17, 85-101.	2.1	5
8	Optimized 64â€channel array configurations for accelerated simultaneous multislice acquisitions in 3T cardiac MRI. Magnetic Resonance in Medicine, 2021, 86, 2276-2289.	3.0	7
9	Accelerated in Vivo Cardiac Diffusion-Tensor MRI Using Residual Deep Learningâ€“based Denoising in Participants with Obesity. Radiology: Cardiothoracic Imaging, 2021, 3, e200580.	2.5	10
10	Balancing Speed and Accuracy in Cardiac Magnetic Resonance Function Post-Processing: Comparing 2 Levels of Automation in 3 Vendors to Manual Assessment. Diagnostics, 2021, 11, 1758.	2.6	3
11	Motionâ€Induced Signal Loss in In Vivo Cardiac Diffusionâ€Weighted Imaging. Journal of Magnetic Resonance Imaging, 2020, 51, 319-320.	3.4	7
12	A novel tracer for in vivo optical imaging of fatty acid metabolism in the heart and brown adipose tissue. Scientific Reports, 2020, 10, 11209.	3.3	2
13	Multiparametric Molecular Imaging of Atherosclerosis. Circulation: Cardiovascular Imaging, 2020, 13, e010494.	2.6	0
14	Blood Oxygen Levelâ€“Dependent MRI of the Myocardium with Multiecho Gradient-Echo Spin-Echo Imaging. Radiology, 2020, 294, 538-545.	7.3	14
15	Fluorescence microscopy tensor imaging representations for large-scale dataset analysis. Scientific Reports, 2020, 10, 5632.	3.3	7
16	Alteration in ventricular pressure stimulates cardiac repair and remodeling. Journal of Molecular and Cellular Cardiology, 2019, 133, 174-187.	1.9	12
17	PET/MR Imaging of Atherosclerosis. JACC: Cardiovascular Imaging, 2018, 11, 302-304.	5.3	2
18	Cardiac macrophages promote diastolic dysfunction. Journal of Experimental Medicine, 2018, 215, 423-440.	8.5	314

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19	Myocardial Scar Delineation Using Diffusion Tensor Magnetic Resonance Tractography. Journal of the American Heart Association, 2018, 7, .	3.7	39
20	Multiplexed Optical Imaging of Energy Substrates Reveals That Left Ventricular Hypertrophy Is Associated With Brown Adipose Tissue Activation. Circulation: Cardiovascular Imaging, 2018, 11, e007007.	2.6	5
21	Native T₁ reference values for nonischemic cardiomyopathies and populations with increased cardiovascular risk: A systematic review and metaâ€analysis. Journal of Magnetic Resonance Imaging, 2018, 47, 891-912.	3.4	28
22	Imaging the Microstructure of the Human Fetal Heart. Circulation: Cardiovascular Imaging, 2018, 11, e008298.	2.6	4
23	Noninvasive Tissue Characterization of Post-Infarction Myocardium. JACC: Cardiovascular Imaging, 2018, 11, 1257-1259.	5.3	1
24	Highly potent visnagin derivatives inhibit Cyp1 and prevent doxorubicin cardiotoxicity. JCI Insight, 2018, 3, .	5.0	31
25	Diffusion MRI in the heart. NMR in Biomedicine, 2017, 30, e3426.	2.8	77
26	Hypoxia treatment reverses neurodegenerative disease in a mouse model of Leigh syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4241-E4250.	7.1	117
27	Evaluation of antitumor activity and cardiac toxicity of a bone-targeted ph-sensitive liposomal formulation in a bone metastasis tumor model in mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1693-1701.	3.3	19
28	Diffusion Tractography of the Entire Left Ventricle by Using Free-breathing Accelerated Simultaneous Multisection Imaging. Radiology, 2017, 282, 850-856.	7.3	35
29	Theranostic Nucleic Acid Binding Nanoprobe Exerts Anti-inflammatory and Cytoprotective Effects in Ischemic Injury. Theranostics, 2017, 7, 814-825.	10.0	21
30	Functional and anatomical characterization of brown adipose tissue in heart failure with blood oxygen level dependent magnetic resonance. NMR in Biomedicine, 2016, 29, 978-984.	2.8	12
31	Heatâ€Induced Radiolabeling of Nanoparticles for Monocyte Tracking by PET. Angewandte Chemie - International Edition, 2015, 54, 13002-13006.	13.8	29
32	In Vivo Nanoparticle Assessment of Pathological Endothelium Predicts the Development of Inflow Stenosis in Murine Arteriovenous Fistula. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 189-196.	2.4	10
33	Seeing What We Buildâ€"The Need for New Imaging Techniques in Myocardial Regeneration. Journal of the American Heart Association, 2015, 4, .	3.7	2
34	Functional brown adipose tissue limits cardiomyocyte injury and adverse remodeling in catecholamine-induced cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2015, 84, 202-211.	1.9	56
35	Dual-Phase Cardiac Diffusion Tensor Imaging with Strain Correction. PLoS ONE, 2014, 9, e107159.	2.5	72
36	Microstructural Impact of Ischemia and Bone Marrowâ€"Derived Cell Therapy Revealed With Diffusion Tensor Magnetic Resonance Imaging Tractography of the Heart In Vivo. Circulation, 2014, 129, 1731-1741.	1.6	65

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37	Molecular MRI of the Cardiovascular System in the Post-NSF Era. Current Cardiovascular Imaging Reports, 2013, 6, 61-68.	0.6	8
38	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
39	Science to Practice: How Will Myocardial Inflammation Be Imaged with MR Imaging?. Radiology, 2012, 264, 309-311.	7.3	1
40	Fiber architecture in remodeled myocardium revealed with a quantitative diffusion CMR tractography framework and histological validation. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 70.	3.3	71
41	Reproducibility of in-vivo diffusion tensor cardiovascular magnetic resonance in hypertrophic cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 86.	3.3	78
42	A Novel Transgenic Mouse Model of Cardiac Hypertrophy and Atrial Fibrillation. Journal of Atrial Fibrillation, 2012, 4, 415.	0.5	17
43	Diffusion Spectrum MRI Tractography Reveals the Presence of a Complex Network of Residual Myofibers in Infarcted Myocardium. Circulation: Cardiovascular Imaging, 2009, 2, 206-212.	2.6	103
44	Molecular MRI Detects Low Levels of Cardiomyocyte Apoptosis in a Transgenic Model of Chronic Heart Failure. Circulation: Cardiovascular Imaging, 2009, 2, 468-475.	2.6	50
45	Will Molecular MR Imaging Play a Role in Identification and Treatment of Patients with Vulnerable Atherosclerotic Plaques?. Radiology, 2009, 251, 309-310.	7.3	4
46	Molecular MRI of Cardiomyocyte Apoptosis With Simultaneous Delayed-Enhancement MRI Distinguishes Apoptotic and Necrotic Myocytes In Vivo. Circulation: Cardiovascular Imaging, 2009, 2, 460-467.	2.6	92
47	Molecular imaging of myocardial injury: A magnetofluorescent approach. Current Cardiovascular Imaging Reports, 2009, 2, 33-39.	0.6	6
48	Diffusion MR tractography of the heart. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 47.	3.3	136
49	Magnetic nanoparticles for MR imaging: agents, techniques and cardiovascular applications. Basic Research in Cardiology, 2008, 103, 122-130.	5.9	208
50	A 128-channel receive-only cardiac coil for highly accelerated cardiac MRI at 3 Tesla. Magnetic Resonance in Medicine, 2008, 59, 1431-1439.	3.0	142
51	Targeted imaging of myocardial damage. Nature Clinical Practice Cardiovascular Medicine, 2008, 5, S63-S70.	3.3	18
52	Molecular Imaging in Cardiovascular Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2008, 19, 59-68.	1.2	24
53	Molecular Magnetic Resonance Imaging in Cardiovascular Medicine. Circulation, 2007, 115, 2076-2086.	1.6	135
54	Fluorescence Tomography and Magnetic Resonance Imaging of Myocardial Macrophage Infiltration in Infarcted Myocardium In Vivo. Circulation, 2007, 115, 1384-1391.	1.6	185

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55	Cardiac MRI in mice at 9.4 Tesla with a transmitâ€receive surface coil and a cardiacâ€tailored intensityâ€correction algorithm. Journal of Magnetic Resonance Imaging, 2007, 26, 279-287.	3.4	21
56	Emerging concepts in molecular MRI. Current Opinion in Biotechnology, 2007, 18, 4-10.	6.6	218
57	Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. Molecular Imaging, 2006, 5, 7290.2006.00009.	1.4	124
58	Magnetic resonance and fluorescence based molecular imaging technologies. , 2005, 62, 83-115.		33
59	Measurement of radial artery contrast intensity to assess cardiac microbubble behavior. Journal of the American Society of Echocardiography, 2003, 16, 1267-1273.	2.8	1
60	Non-invasive imaging of plaque vulnerability: an important tool for the assessment of agents to stabilise atherosclerotic plaques. Expert Opinion on Investigational Drugs, 2002, 11, 693-704.	4.1	4