

David E Sosnovik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5500028/publications.pdf>

Version: 2024-02-01

60
papers

2,877
citations

257429

24
h-index

175241

52
g-index

64
all docs

64
docs citations

64
times ranked

4079
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac macrophages promote diastolic dysfunction. <i>Journal of Experimental Medicine</i> , 2018, 215, 423-440.	8.5	314
2	Emerging concepts in molecular MRI. <i>Current Opinion in Biotechnology</i> , 2007, 18, 4-10.	6.6	218
3	Magnetic nanoparticles for MR imaging: agents, techniques and cardiovascular applications. <i>Basic Research in Cardiology</i> , 2008, 103, 122-130.	5.9	208
4	Fluorescence Tomography and Magnetic Resonance Imaging of Myocardial Macrophage Infiltration in Infarcted Myocardium In Vivo. <i>Circulation</i> , 2007, 115, 1384-1391.	1.6	185
5	In vivo diffusion tensor MRI of the human heart: Reproducibility of breath-hold and navigator-based approaches. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 454-465.	3.0	145
6	A 128-channel receive-only cardiac coil for highly accelerated cardiac MRI at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1431-1439.	3.0	142
7	Diffusion MR tractography of the heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, 47.	3.3	136
8	Molecular Magnetic Resonance Imaging in Cardiovascular Medicine. <i>Circulation</i> , 2007, 115, 2076-2086.	1.6	135
9	Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00009.	1.4	124
10	Hypoxia treatment reverses neurodegenerative disease in a mouse model of Leigh syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4241-E4250.	7.1	117
11	Diffusion Spectrum MRI Tractography Reveals the Presence of a Complex Network of Residual Myofibers in Infarcted Myocardium. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 206-212.	2.6	103
12	Molecular MRI of Cardiomyocyte Apoptosis With Simultaneous Delayed-Enhancement MRI Distinguishes Apoptotic and Necrotic Myocytes In Vivo. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 460-467.	2.6	92
13	Reproducibility of in-vivo diffusion tensor cardiovascular magnetic resonance in hypertrophic cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 86.	3.3	78
14	Diffusion MRI in the heart. <i>NMR in Biomedicine</i> , 2017, 30, e3426.	2.8	77
15	Dual-Phase Cardiac Diffusion Tensor Imaging with Strain Correction. <i>PLoS ONE</i> , 2014, 9, e107159.	2.5	72
16	Fiber architecture in remodeled myocardium revealed with a quantitative diffusion CMR tractography framework and histological validation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 70.	3.3	71
17	Microstructural Impact of Ischemia and Bone Marrow-Derived Cell Therapy Revealed With Diffusion Tensor Magnetic Resonance Imaging Tractography of the Heart In Vivo. <i>Circulation</i> , 2014, 129, 1731-1741.	1.6	65
18	Functional brown adipose tissue limits cardiomyocyte injury and adverse remodeling in catecholamine-induced cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 202-211.	1.9	56

#	ARTICLE	IF	CITATIONS
19	Molecular MRI Detects Low Levels of Cardiomyocyte Apoptosis in a Transgenic Model of Chronic Heart Failure. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 468-475.	2.6	50
20	Myocardial Scar Delineation Using Diffusion Tensor Magnetic Resonance Tractography. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	39
21	Diffusion Tractography of the Entire Left Ventricle by Using Free-breathing Accelerated Simultaneous Multisection Imaging. <i>Radiology</i> , 2017, 282, 850-856.	7.3	35
22	Magnetic resonance and fluorescence based molecular imaging technologies. , 2005, 62, 83-115.		33
23	Highly potent visnagin derivatives inhibit Cyp1 and prevent doxorubicin cardiotoxicity. <i>JCI Insight</i> , 2018, 3, .	5.0	31
24	Heat-Induced Radiolabeling of Nanoparticles for Monocyte Tracking by PET. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13002-13006.	13.8	29
25	Native T ₁ reference values for nonischemic cardiomyopathies and populations with increased cardiovascular risk: A systematic review and meta-analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 891-912.	3.4	28
26	Molecular Imaging in Cardiovascular Magnetic Resonance Imaging. <i>Topics in Magnetic Resonance Imaging</i> , 2008, 19, 59-68.	1.2	24
27	Cardiac MRI in mice at 9.4 Tesla with a transmit-receive surface coil and a cardiac-tailored intensity-correction algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 279-287.	3.4	21
28	Theranostic Nucleic Acid Binding Nanoprobe Exerts Anti-inflammatory and Cytoprotective Effects in Ischemic Injury. <i>Theranostics</i> , 2017, 7, 814-825.	10.0	21
29	Evaluation of antitumor activity and cardiac toxicity of a bone-targeted pH-sensitive liposomal formulation in a bone metastasis tumor model in mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1693-1701.	3.3	19
30	Targeted imaging of myocardial damage. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2008, 5, S63-S70.	3.3	18
31	A Novel Transgenic Mouse Model of Cardiac Hypertrophy and Atrial Fibrillation. <i>Journal of Atrial Fibrillation</i> , 2012, 4, 415.	0.5	17
32	Free-breathing diffusion tensor MRI of the whole left ventricle using second-order motion compensation and multitasking respiratory motion correction. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2634-2648.	3.0	16
33	Blood Oxygen Level-Dependent MRI of the Myocardium with Multiecho Gradient-Echo Spin-Echo Imaging. <i>Radiology</i> , 2020, 294, 538-545.	7.3	14
34	Functional and anatomical characterization of brown adipose tissue in heart failure with blood oxygen level dependent magnetic resonance. <i>NMR in Biomedicine</i> , 2016, 29, 978-984.	2.8	12
35	Alteration in ventricular pressure stimulates cardiac repair and remodeling. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 133, 174-187.	1.9	12
36	Detection and Characterization of Thrombosis in Humans Using Fibrin-Targeted Positron Emission Tomography and Magnetic Resonance. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 504-515.	5.3	12

#	ARTICLE	IF	CITATIONS
37	In Vivo Nanoparticle Assessment of Pathological Endothelium Predicts the Development of Inflow Stenosis in Murine Arteriovenous Fistula. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 189-196.	2.4	10
38	Accelerated in Vivo Cardiac Diffusion-Tensor MRI Using Residual Deep Learning-based Denoising in Participants with Obesity. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200580.	2.5	10
39	Molecular MRI of the Cardiovascular System in the Post-NSF Era. <i>Current Cardiovascular Imaging Reports</i> , 2013, 6, 61-68.	0.6	8
40	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
41	Fluorescence microscopy tensor imaging representations for large-scale dataset analysis. <i>Scientific Reports</i> , 2020, 10, 5632.	3.3	7
42	Optimized 64-channel array configurations for accelerated simultaneous multislice acquisitions in 3T cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2276-2289.	3.0	7
43	Molecular imaging of myocardial injury: A magnetofluorescent approach. <i>Current Cardiovascular Imaging Reports</i> , 2009, 2, 33-39.	0.6	6
44	Biomedical Imaging in Experimental Models of Cardiovascular Disease. <i>Circulation Research</i> , 2022, 130, 1851-1868.	4.5	6
45	Multiplexed Optical Imaging of Energy Substrates Reveals That Left Ventricular Hypertrophy Is Associated With Brown Adipose Tissue Activation. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007007.	2.6	5
46	Magnetic Resonance-Based Characterization of Myocardial Architecture. <i>Heart Failure Clinics</i> , 2021, 17, 85-101.	2.1	5
47	Non-invasive imaging of plaque vulnerability: an important tool for the assessment of agents to stabilise atherosclerotic plaques. <i>Expert Opinion on Investigational Drugs</i> , 2002, 11, 693-704.	4.1	4
48	Will Molecular MR Imaging Play a Role in Identification and Treatment of Patients with Vulnerable Atherosclerotic Plaques?. <i>Radiology</i> , 2009, 251, 309-310.	7.3	4
49	Imaging the Microstructure of the Human Fetal Heart. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e008298.	2.6	4
50	Manifold-based respiratory phase estimation enables motion and distortion correction of free-breathing cardiac diffusion tensor MRI. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 474-487.	3.0	3
51	Balancing Speed and Accuracy in Cardiac Magnetic Resonance Function Post-Processing: Comparing 2 Levels of Automation in 3 Vendors to Manual Assessment. <i>Diagnostics</i> , 2021, 11, 1758.	2.6	3
52	Seeing What We Build—The Need for New Imaging Techniques in Myocardial Regeneration. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	2
53	PET/MR Imaging of Atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 302-304.	5.3	2
54	A novel tracer for in vivo optical imaging of fatty acid metabolism in the heart and brown adipose tissue. <i>Scientific Reports</i> , 2020, 10, 11209.	3.3	2

#	ARTICLE	IF	CITATIONS
55	Advances in cardiac PET/MR imaging: Facilitating cutting-edge structural and biological phenotyping of the cardiovascular system. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 2026-2029.	2.1	2
56	Validation of cardiac diffusion tensor imaging sequences: A multicentre test-retest phantom study. <i>NMR in Biomedicine</i> , 2022, 35, e4685.	2.8	2
57	Measurement of radial artery contrast intensity to assess cardiac microbubble behavior. <i>Journal of the American Society of Echocardiography</i> , 2003, 16, 1267-1273.	2.8	1
58	Science to Practice: How Will Myocardial Inflammation Be Imaged with MR Imaging?. <i>Radiology</i> , 2012, 264, 309-311.	7.3	1
59	Noninvasive Tissue Characterization of Post-Infarction Myocardium. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1257-1259.	5.3	1
60	Multiparametric Molecular Imaging of Atherosclerosis. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e010494.	2.6	0