

Wolfgang R Bauer

List of Publications by Year in descending order

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76
papers

3,278
citations

117625

34
h-index

149698

56
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79
all docs

79
docs citations

79
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	Wall shear stress analysis using 17.6 Tesla MRI: A longitudinal study in ApoE ^{-/-} mice with histological analysis. PLoS ONE, 2020, 15, e0238112.	2.5	3
2	Real-time magnetic resonance imaging-guided cardiac electrophysiology: the long road to clinical routine. European Heart Journal Cardiovascular Imaging, 2019, 20, 136-137.	1.2	1
3	Myocardial infarction triggers cardioprotective antigen-specific T helper cell responses. Journal of Clinical Investigation, 2019, 129, 4922-4936.	8.2	109
4	Imaging of C-X-C Motif Chemokine Receptor CXCR4 Expression After Myocardial Infarction With [68Ga]Pentixafor-PET/CT in Correlation With Cardiac MRI. JACC: Cardiovascular Imaging, 2018, 11, 1541-1543.	5.3	42
5	It's the Metabolism That Makes Macrophages Detectable in the Magnetic Resonance Scanner. Circulation Research, 2018, 122, 1039-1040.	4.5	0
6	Local versus global aortic pulse wave velocity in early atherosclerosis: An animal study in ApoE ^{-/-} mice using ultrahigh field MRI. PLoS ONE, 2017, 12, e0171603.	2.5	11
7	Somatostatin receptor based PET/CT in patients with the suspicion of cardiac sarcoidosis: an initial comparison to cardiac MRI. Oncotarget, 2016, 7, 77807-77814.	1.8	79
8	Self-navigated non-steady-state conditions: Cardiac and respiratory self-gating of inversion recovery snapshot FLASH acquisitions in mice. Magnetic Resonance in Medicine, 2016, 76, 1887-1894.	3.0	11
9	Quantification of perfusion in murine myocardium: A retrospectively triggered T ₁ -based ASL method using model-based reconstruction. Magnetic Resonance in Medicine, 2015, 74, 1705-1715.	3.0	11
10	Imaging of myocardial inflammation with somatostatin receptor based PET/CT – A comparison to cardiac MRI. International Journal of Cardiology, 2015, 194, 44-49.	1.7	86
11	[68Ga]Pentixafor-PET/CT for Imaging of Chemokine Receptor 4 Expression After Myocardial Infarction. JACC: Cardiovascular Imaging, 2015, 8, 1466-1468.	5.3	56
12	Myocardial T1: Quantification by Using an ECG-triggered Radial Single-Shot Inversion-Recovery MR Imaging Sequence. Radiology, 2015, 274, 879-887.	7.3	22
13	Detection of cardiac sarcoidosis by macrophage-directed somatostatin receptor 2-based positron emission tomography/computed tomography. European Heart Journal, 2015, 36, 2404-2404.	2.2	34
14	Initial Clinical Application of Real-time MR Imaging-guided Ablation of Cardiac Arrhythmia in Patients with Atrial Flutter. Radiology, 2014, 273, 310-311.	7.3	6
15	Response to Letter Regarding Article, "Monitoring of Monocyte Recruitment in Reperfused Myocardial Infarction With Intramyocardial Hemorrhage and Microvascular Obstruction By Combined Fluorine 19 and Proton Cardiac Magnetic Resonance Imaging". Circulation, 2014, 130, e41-2.	1.6	0
16	Myocardial perfusion quantification using the T ₁ -based FAIR-ASL method: The influence of heart anatomy, cardiopulmonary blood flow and look-locker readout. Magnetic Resonance in Medicine, 2014, 71, 1784-1797.	3.0	14
17	Cooperative transport in nanochannels. Physical Review E, 2013, 88, 010703.	2.1	9
18	Fast retrospectively triggered local pulse-wave velocity measurements in mice with CMR-microscopy using a radial trajectory. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 88.	3.3	18

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19	Local Arterial Stiffening Assessed by MRI Precedes Atherosclerotic Plaque Formation. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 916-923.	2.6	46
20	Monitoring of Monocyte Recruitment in Reperfused Myocardial Infarction With Intramyocardial Hemorrhage and Microvascular Obstruction by Combined Fluorine 19 and Proton Cardiac Magnetic Resonance Imaging. <i>Circulation</i> , 2013, 128, 1878-1888.	1.6	44
21	Impact of Thoracic Surgery on Cardiac Morphology and Function in Small Animal Models of Heart Disease: A Cardiac MRI Study in Rats. <i>PLoS ONE</i> , 2013, 8, e68275.	2.5	7
22	Cardiac catheter ablation under real-time magnetic resonance guidance. <i>European Heart Journal</i> , 2012, 33, 1977-1977.	2.2	16
23	Comments on 'Safe magnetic resonance image scanning of the pacemaker patient: current technologies and future directions'. <i>Europace</i> , 2012, 14, 1532-1532.	1.7	0
24	Direct cooling of the catheter tip increases safety for CMR-guided electrophysiological procedures. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 6.	3.3	8
25	Visualization of Vascular Inflammation in the Atherosclerotic Mouse by Ultrasmall Superparamagnetic Iron Oxide Vascular Cell Adhesion Molecule-1-Specific Nanoparticles. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2350-2357.	2.4	72
26	Reducing RF-related heating of cardiac pacemaker leads in MRI: Implementation and experimental verification of practical design changes. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1963-1972.	3.0	33
27	Signal evolution in the local magnetic field of a capillary – analogy to the damped driven harmonic oscillator. <i>Magnetic Resonance Imaging</i> , 2012, 30, 540-553.	1.8	25
28	Feasibility of Contrast-Enhanced and Nonenhanced MRI for Intraprocedural and Postprocedural Lesion Visualization in Interventional Electrophysiology. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 282-294.	2.6	36
29	Impact of imaging landmark on the risk of MRI-related heating near implanted medical devices like cardiac pacemaker leads. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 44-50.	3.0	42
30	Intracellular and extracellular T_1 and T_2 relaxivities of magneto-optical nanoparticles at experimental high fields. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1607-1615.	3.0	37
31	Regional in vivo transit time measurements of aortic pulse wave velocity in mice with high-field CMR at 17.6 Tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, 72.	3.3	17
32	Tissue ACE inhibition improves microcirculation in remote myocardium after coronary stenosis: MR imaging study in rats. <i>Microvascular Research</i> , 2010, 80, 484-490.	2.5	14
33	Thermodynamics of Competitive Molecular Channel Transport: Application to Artificial Nuclear Pores. <i>PLoS ONE</i> , 2010, 5, e15160.	2.5	9
34	Feasibility of Real-Time MRI With a Novel Carbon Catheter for Interventional Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2009, 2, 258-267.	4.8	35
35	Measuring RF-induced currents inside implants: Impact of device configuration on MRI safety of cardiac pacemaker leads. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 570-578.	3.0	146
36	In vivo measurement of local aortic pulse-wave velocity in mice with MR microscopy at 17.6 tesla. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1293-1299.	3.0	42

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37	In vivo comparison of atherosclerotic plaque progression with vessel wall strain and blood flow velocity in apoE ^{-/-} /A ^{-/-} mice with MR microscopy at 17.6 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 159-166.	2.0	20
38	Spatial distribution of RF-induced E-fields and implant heating in MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 312-319.	3.0	109
39	Functional mechanisms of myocardial microcirculation in left ventricular hypertrophy. <i>Microvascular Research</i> , 2008, 75, 104-111.	2.5	11
40	Dynamics and efficiency of Brownian rotors. <i>Journal of Chemical Physics</i> , 2008, 129, 225103.	3.0	12
41	Assessment of Cardiovascular Apoptosis in the Isolated Rat Heart by Magnetic Resonance Molecular Imaging. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00012.	1.4	46
42	Structure-specific magnetic field inhomogeneities and its effect on the correlation time. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1341-1347.	1.8	25
43	Multimodal functional cardiac MRI in creatine kinase-deficient mice reveals subtle abnormalities in myocardial perfusion and mechanics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H2516-H2521.	3.2	53
44	Molecular transport through channels and pores: Effects of in-channel interactions and blocking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11446-11451.	7.1	93
45	Factor XIII Deficiency Causes Cardiac Rupture, Impairs Wound Healing, and Aggravates Cardiac Remodeling in Mice With Myocardial Infarction. <i>Circulation</i> , 2006, 113, 1196-1202.	1.6	145
46	In vivo assessment of absolute perfusion and intracapillary blood volume in the murine myocardium by spin labeling magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 584-592.	3.0	77
47	Creatine kinase knockout mice show left ventricular hypertrophy and dilatation, but unaltered remodeling post-myocardial infarction. <i>Cardiovascular Research</i> , 2005, 65, 419-427.	3.8	64
48	Stationary flow, first passage times, and macroscopic Fick's first diffusion law: Application to flow enhancement by particle trapping. <i>Journal of Chemical Physics</i> , 2005, 122, 244904.	3.0	9
49	Myocardial Perfusion Measurements by Spin-Labeling Under Different Vasodynamic States #. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004, 6, 509-516.	3.3	20
50	In vivo assessment of absolute perfusion in the murine skeletal muscle with spin labeling MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 147-152.	3.4	36
51	Quantitative assessment of myocardial perfusion with a spin-labeling technique: Preliminary results in patients with coronary artery disease. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 555-560.	3.4	40
52	Susceptibility-sensitive magnetic resonance imaging detects human myocardium supplied by a stenotic coronary artery without a contrast agent. <i>Journal of the American College of Cardiology</i> , 2003, 41, 834-840.	2.8	107
53	Chronic coronary artery stenosis induces impaired function of remote myocardium: MRI and spectroscopy study in rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2712-H2721.	3.2	21
54	Time course of right ventricular remodeling in rats with experimental myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H241-H248.	3.2	29

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55	Spin dephasing in the extended strong collision approximation. <i>Physical Review E</i> , 2002, 65, 066123.	2.1	26
56	Effect of Transmyocardial Laser Revascularization on Myocardial Perfusion and Left Ventricular Remodeling after Myocardial Infarction in Rats. <i>Radiology</i> , 2002, 225, 487-493.	7.3	15
57	Impact of hydroxymethylglutaryl coenzyme a reductase inhibition on left ventricular remodeling after myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2002, 40, 1695-1700.	2.8	49
58	Determination of regional blood volume and intra-extracapillary water exchange in human myocardium using Feruglose: First clinical results in patients with coronary artery disease. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 1013-1016.	3.0	34
59	Combined High-Speed NMR Imaging of Perfusion and Microscopic Coronary Conductance Vessels in the Isolated Rat Heart. <i>Microvascular Research</i> , 2001, 62, 327-334.	2.5	9
60	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 547-555.	3.4	71
61	Myocardial perfusion imaging using a non-contrast agent MR imaging technique. <i>International Journal of Cardiovascular Imaging</i> , 2001, 17, 123-132.	0.6	25
62	Fast High-Resolution Magnetic Resonance Imaging Demonstrates Fractality of Myocardial Perfusion in Microscopic Dimensions. <i>Circulation Research</i> , 2001, 88, 340-346.	4.5	58
63	Myocardial Perfusion and Intracapillary Blood Volume in Rats at Rest and with Coronary Dilatation: MR Imaging in Vivo with Use of a Spin-Labeling Technique. <i>Radiology</i> , 2000, 215, 189-197.	7.3	90
64	Theory of Coherent and Incoherent Nuclear Spin Dephasing in the Heart. <i>Physical Review Letters</i> , 1999, 83, 4215-4218.	7.8	40
65	BOLD-MRI in ten patients with coronary artery disease: evidence for imaging of capillary recruitment in myocardium supplied by the stenotic artery. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1999, 8, 48-54.	2.0	35
66	Theory of the BOLD effect in the capillary region: An analytical approach for the determination of T^*2 in the capillary network of myocardium. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 51-62.	3.0	79
67	Changes in myocardial oxygenation and perfusion under pharmacological stress with dipyridamole: Assessment using T^*2 and $T1$ measurements. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 686-695.	3.0	128
68	The relationship between the BOLD-induced $T2$ and $T2^*$: A theoretical approach for the vasculature of myocardium. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 1004-1010.	3.0	79
69	Magnetic resonance microimaging for noninvasive quantification of myocardial function and mass in the mouse. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 43-48.	3.0	174
70	Quantitative regional blood volume studies in rat myocardium in Vivo. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 517-525.	3.0	17
71	In Vivo quantitative mapping of cardiac perfusion in rats using a noninvasive MR spin-labeling method. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 1240-1245.	3.4	116
72	Study of Microcirculation by Coloured Microspheres and NMR-microscopy in Isolated Rat Heart: Effect of Ischaemia, Endothelin-1 and Endothelin-1 Antagonist BQ 610. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 3115-3122.	1.9	18

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73	The effect of perfusion on T1 after slice-selective spin inversion in the isolated cardioplegic rat heart: Measurement of a lower bound of intracapillary-extravascular water proton exchange rate. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 917-923.	3.0	48
74	Magnetization exchange in capillaries by microcirculation affects diffusion-controlled spin-relaxation: A model which describes the effect of perfusion on relaxation enhancement by intravascular contrast agents. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 43-55.	3.0	76
75	Investigation of Coronary Vessels in Microscopic Dimensions by Two- and Three-dimensional NMR Microscopic Imaging in the Isolated Rat Heart. <i>Circulation</i> , 1995, 92, 968-977.	1.6	14
76	The true T1 values of myocardial high-energy phosphates?. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 146-147.	3.0	0