

Christopher J Hardy

List of Publications by Year in descending order

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57
papers

3,807
citations

126858

33
h-index

168321

53
g-index

57
all docs

57
docs citations

57
times ranked

2565
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward single breath-hold whole-heart coverage coronary MRA using highly accelerated parallel imaging with a 32-channel MR system. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 167-176.	1.9	518
2	Regional Myocardial Metabolism of High-Energy Phosphates during Isometric Exercise in Patients with Coronary Artery Disease. <i>New England Journal of Medicine</i> , 1990, 323, 1593-1600.	13.9	346
3	Altered myocardial high-energy phosphate metabolites in patients with dilated cardiomyopathy. <i>American Heart Journal</i> , 1991, 122, 795-801.	1.2	248
4	MR temperature mapping of focused ultrasound surgery. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 628-636.	1.9	246
5	Real-time interactive MRI on a conventional scanner. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 355-367.	1.9	226
6	Phosphate metabolite imaging and concentration measurements in human heart by nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 425-434.	1.9	136
7	Broadband nuclear magnetic resonance pulses with two-dimensional spatial selectivity. <i>Journal of Applied Physics</i> , 1989, 66, 1513-1516.	1.1	133
8	Highly parallel volumetric imaging with a 32-element RF coil array. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 869-877.	1.9	133
9	Accelerated diffusion spectrum imaging in the human brain using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1226-1233.	1.9	114
10	Proton-decoupled, overhauser-enhanced, spatially localized carbon-13 spectroscopy in humans. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 348-363.	1.9	101
11	Simultaneous magnetic resonance phase and magnitude temperature maps in muscle. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 309-315.	1.9	95
12	Variable-Density Single-Shot Fast Spin-Echo MRI with Deep Learning Reconstruction by Using Variational Networks. <i>Radiology</i> , 2018, 289, 366-373.	3.6	93
13	Lightweight, compact, and high-performance 3T MR system for imaging the brain and extremities. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2232-2245.	1.9	70
14	Two-dimensional spatially selective spin inversion and spin-echo refocusing with a single nuclear magnetic resonance pulse. <i>Journal of Applied Physics</i> , 1987, 62, 4284-4290.	1.1	69
15	Accuracy of arterial pulse-wave velocity measurement using MR. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 878-888.	1.9	69
16	Improved correction for gradient nonlinearity effects in diffusion-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 448-453.	1.9	68
17	Rapid Volumetric MRI Using Parallel Imaging With Order-of-Magnitude Accelerations and a 32-Element RF Coil Array. <i>Academic Radiology</i> , 2005, 12, 626-635.	1.3	67
18	An NMR Phased Array for Human Cardiac 31P Spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1992, 28, 54-64.	1.9	63

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19	Peripheral nerve stimulation characteristics of an asymmetric head-only gradient coil compatible with a high-channel-count receiver array. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1939-1950.	1.9	55
20	Spatial localization in two dimensions using NMR designer pulses. <i>Journal of Magnetic Resonance</i> , 1989, 82, 647-654.	0.5	53
21	Real-time acquisition, display, and interactive graphic control of NMR cardiac profiles and images. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 667-673.	1.9	52
22	Pencil excitation with interleaved fourier velocity encoding: NMR measurement of aortic distensibility. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 814-819.	1.9	52
23	32-element receiver-coil array for cardiac imaging. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1142-1149.	1.9	52
24	³¹ P Spectroscopic localization using pinwheel NMR excitation pulses. <i>Magnetic Resonance in Medicine</i> , 1991, 17, 315-327.	1.9	50
25	Coronary angiography by real-time MRI with adaptive averaging. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 940-946.	1.9	48
26	Large field-of-view real-time MRI with a 32-channel system. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 878-884.	1.9	46
27	Problems and expediciencies in human ³¹ P spectroscopy. The definition of localized volumes, dealing with saturation and the technique-dependence of quantification. <i>NMR in Biomedicine</i> , 1989, 2, 284-289.	1.6	45
28	Proton overhauser enhancements in human cardiac phosphorus NMR spectroscopy at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 1992, 24, 384-390.	1.9	44
29	A one-dimensional velocity technique for NMR measurement of aortic distensibility. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 513-520.	1.9	37
30	Accelerated MR imaging using compressive sensing with no free parameters. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1450-1457.	1.9	37
31	Quantitative measurement of blood flow using cylindrically localized fourier velocity encoding. <i>Magnetic Resonance in Medicine</i> , 1991, 21, 242-250.	1.9	36
32	Interactive coronary MRI. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 105-111.	1.9	36
33	Coronary MR angiography: Respiratory motion correction with BACSPIN. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 170-176.	1.9	34
34	Rapid NMR Cardiology with a Half-Echo M-Mode Method. <i>Journal of Computer Assisted Tomography</i> , 1991, 15, 868-874.	0.5	33
35	Local planar gradients with order-of-magnitude strength and speed advantage. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 134-143.	1.9	28
36	Age-related changes of regional pulse wave velocity in the descending aorta using Fourier velocity encoded M-mode. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 261-268.	1.9	28

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37	Correcting for nonuniform k-space sampling in two-dimensional NMR selective excitation. Journal of Magnetic Resonance, 1990, 87, 639-645.	0.5	26
38	One-Dimensional NMR Thermal Mapping of Focused Ultrasound Surgery. Journal of Computer Assisted Tomography, 1994, 18, 476-483.	0.5	23
39	PROGRESS in efficient three-dimensional spatially localized in vivo ³¹ P NMR spectroscopy using multidimensional spatially selective (π) pulses. Journal of Magnetic Resonance, 1987, 74, 550-556.	0.5	22
40	Fast MR cardiac profiling with two-dimensional selective pulses. Magnetic Resonance in Medicine, 1991, 17, 390-401.	1.9	20
41	Accuracy and repeatability of fourier velocity encoded M ₀ mode and two-dimensional cine phase contrast for pulse wave velocity measurement in the descending aorta. Journal of Magnetic Resonance Imaging, 2010, 31, 1185-1194.	1.9	20
42	Experimental determination of human peripheral nerve stimulation thresholds in a 3-axis planar gradient system. Magnetic Resonance in Medicine, 2009, 62, 763-770.	1.9	18
43	Correcting human heart ³¹ P NMR spectra for partial saturation. Evidence that saturation factors for PCr/ATP are homogeneous in normal and disease states. Journal of Magnetic Resonance, 1991, 95, 341-355.	0.5	17
44	Mapping creatine kinase reaction rates in human brain and heart with 4 tesla saturation transfer ³¹ P NMR. Journal of Magnetic Resonance, 1992, 99, 443-448.	0.5	16
45	Off-axis spatial localization with frequency modulated nuclear magnetic resonance rotating (π) pulses. Journal of Applied Physics, 1988, 63, 4741-4743.	1.1	15
46	Model-based denoising in diffusion-weighted imaging using generalized spherical deconvolution. Magnetic Resonance in Medicine, 2017, 78, 2428-2438.	1.9	15
47	Bias and precision analysis of diffusional kurtosis imaging for different acquisition schemes. Magnetic Resonance in Medicine, 2016, 76, 1684-1696.	1.9	14
48	Multi-directional anisotropy from diffusion orientation distribution functions. Journal of Magnetic Resonance Imaging, 2015, 41, 841-850.	1.9	12
49	Coronary Artery Magnetic Resonance Imaging: A Patient-Tailored Approach. Topics in Magnetic Resonance Imaging, 2000, 11, 406-416.	0.7	9
50	Reduced acoustic noise in diffusion tensor imaging on a compact MRI system. Magnetic Resonance in Medicine, 2018, 79, 2902-2911.	1.9	6
51	Aortic Pathophysiology by Cardiovascular Magnetic Resonance in Patients with Clinical Suspicion of Coronary Artery Disease. Journal of Cardiovascular Magnetic Resonance, 2007, 9, 43-48.	1.6	5
52	Real-Time Cardiovascular MR Imaging. Developments in Cardiovascular Medicine, 1998, , 207-219.	0.1	5
53	Estimation of aortic pulse pressure using fourier velocity encoded M ₀ mode MR. Journal of Magnetic Resonance Imaging, 2014, 39, 85-93.	1.9	2
54	Assessment of Arterial Elasticity by Cardiovascular MRI. , 2008, , 695-710.		1

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55	A sampling-ring saturation pulse for two-dimensional NMR selective excitation. Journal of Magnetic Resonance, 1992, 99, 623-631.	0.5	0
56	Adaptive Gradient Balancing for Undersampled MRI Reconstruction and Image-to-Image Translation. , 2021, , .		0
57	Real-Time Coronary MRI. , 2002, , 236-241.		0