

Christoph Barmet

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,240
citations

471509

17
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal magnetic field monitoring for MR. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 187-197.	3.0	172
2	NMR probes for measuring magnetic fields and field dynamics in MR systems. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 176-186.	3.0	172
3	Gradient system characterization by impulse response measurements with a dynamic field camera. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 583-593.	3.0	148
4	Higher order reconstruction for MRI in the presence of spatiotemporal field perturbations. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1690-1701.	3.0	135
5	A field camera for MR sequence monitoring and system analysis. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1831-1840.	3.0	91
6	A transmit/receive system for magnetic field monitoring of in vivo MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 269-276.	3.0	83
7	Image reconstruction using a gradient impulse response model for trajectory prediction. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 45-58.	3.0	57
8	Single-shot spiral imaging enabled by an expanded encoding model: demonstration in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 83-91.	3.0	48
9	Analysis of temperature dependence of background phase errors in phase-contrast cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 97.	3.3	46
10	Real-time motion correction using gradient tones and head-mounted NMR field probes. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 647-660.	3.0	41
11	Diffusion MRI with concurrent magnetic field monitoring. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 925-933.	3.0	39
12	Dynamic nuclear magnetic resonance field sensing with part-per-trillion resolution. <i>Nature Communications</i> , 2016, 7, 13702.	12.8	33
13	Rapid anatomical brain imaging using spiral acquisition and an expanded signal model. <i>NeuroImage</i> , 2018, 168, 88-100.	4.2	32
14	Matched-filter acquisition for BOLD fMRI. <i>NeuroImage</i> , 2014, 100, 145-160.	4.2	31
15	Gradient and shim pre-emphasis by inversion of a linear time-invariant system model. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1607-1622.	3.0	26
16	Single-shot spiral imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1836-1846.	3.0	23
17	Fast Higher-Order MR Image Reconstruction Using Singular-Vector Separation. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1396-1403.	8.9	18
18	Advances in spiral fMRI: A high-resolution study with single-shot acquisition. <i>NeuroImage</i> , 2022, 246, 118738.	4.2	18

#	ARTICLE	IF	CITATIONS
19	Concurrent recording of RF pulses and gradient fields â€“ comprehensive field monitoring for MRI. NMR in Biomedicine, 2016, 29, 1162-1172.	2.8	16
20	Ultrafast Ligand Self-Exchanging Gadolinium Complexes in Ionic Liquids for NMR Field Probes. Inorganic Chemistry, 2018, 57, 2314-2319.	4.0	5
21	Erratum to â€œFast Higher-Order MR Image Reconstruction Using Singular-Vector Separationâ€•[Jul 12 1396-1403]. IEEE Transactions on Medical Imaging, 2012, 31, 1833-1833.	8.9	0
22	Advances in spiral fMRI: A high-resolution dataset. Data in Brief, 2022, 42, 108050.	1.0	0