

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 | Advances in spiral fMRI: A high-resolution study with single-shot acquisition. <i>NeuroImage</i> , 2022, 246, 118738. | 4.2 | 18 |
| 2 | Advances in spiral fMRI: A high-resolution dataset. <i>Data in Brief</i> , 2022, 42, 108050. | 1.0 | 0 |
| 3 | Single-shot spiral imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1836-1846. | 3.0 | 23 |
| 4 | Ultrafast Ligand Self-Exchanging Gadolinium Complexes in Ionic Liquids for NMR Field Probes. <i>Inorganic Chemistry</i> , 2018, 57, 2314-2319. | 4.0 | 5 |
| 5 | Rapid anatomical brain imaging using spiral acquisition and an expanded signal model. <i>NeuroImage</i> , 2018, 168, 88-100. | 4.2 | 32 |
| 6 | 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 |
| 7 | 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 |
| 8 | A field camera for MR sequence monitoring and system analysis. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1831-1840. | 3.0 | 91 |
| 9 | Concurrent recording of RF pulses and gradient fields – comprehensive field monitoring for MRI. <i>NMR in Biomedicine</i> , 2016, 29, 1162-1172. | 2.8 | 16 |
| 10 | Image reconstruction using a gradient impulse response model for trajectory prediction. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 45-58. | 3.0 | 57 |
| 11 | Dynamic nuclear magnetic resonance field sensing with part-per-trillion resolution. <i>Nature Communications</i> , 2016, 7, 13702. | 12.8 | 33 |
| 12 | 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 |
| 13 | Diffusion MRI with concurrent magnetic field monitoring. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 925-933. | 3.0 | 39 |
| 14 | 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 |
| 15 | Matched-filter acquisition for BOLD fMRI. <i>NeuroImage</i> , 2014, 100, 145-160. | 4.2 | 31 |
| 16 | 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 |
| 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 | Erratum to “Fast Higher-Order MR Image Reconstruction Using Singular-Vector Separation” [Jul 12 1396-1403]. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1833-1833. | 8.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Higher order reconstruction for MRI in the presence of spatiotemporal field perturbations. Magnetic Resonance in Medicine, 2011, 65, 1690-1701. | 3.0 | 135 |
| 20 | A transmit/receive system for magnetic field monitoring of in vivo MRI. Magnetic Resonance in Medicine, 2009, 62, 269-276. | 3.0 | 83 |
| 21 | Spatiotemporal magnetic field monitoring for MR. Magnetic Resonance in Medicine, 2008, 60, 187-197. | 3.0 | 172 |
| 22 | NMR probes for measuring magnetic fields and field dynamics in MR systems. Magnetic Resonance in Medicine, 2008, 60, 176-186. | 3.0 | 172 |