

Luc Darrasse

List of Publications by Year in descending order

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13
papers

221
citations

1306789

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1125271

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g-index

13
all docs

13
docs citations

13
times ranked

253
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature superconducting surface coil for in vivo microimaging of the human skin. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 376-382.	1.9	68
2	Performance of a miniature high-temperature superconducting (HTS) surface coil for in vivo microimaging of the mouse in a standard 1.5T clinical whole-body scanner. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 917-927.	1.9	42
3	Magnetic susceptibility matching at the air-tissue interface in rat lung by using a superparamagnetic intravascular contrast agent: Influence on transverse relaxation time of hyperpolarized helium-3. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 28-33.	1.9	27
4	Technical aspects: Development, manufacture and installation of a cryo-cooled HTS coil system for high-resolution in-vivo imaging of the mouse at 1.5T. <i>Methods</i> , 2007, 43, 54-67.	1.9	22
5	Aerosol deposition in the lungs of spontaneously breathing rats using Gd-DOTA-based contrast agents and ultra-short echo time MRI at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 594-605.	1.9	16
6	Recent Advances and Challenges in the Development of Radiofrequency HTS Coil for MRI. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	9
7	High-temperature superconducting radiofrequency probe for magnetic resonance imaging applications operated below ambient pressure in a simple liquid-nitrogen cryostat. <i>Review of Scientific Instruments</i> , 2013, 84, 054701.	0.6	8
8	Method for nonlinear characterization of radio frequency coils made of high temperature superconducting material in view of magnetic resonance imaging applications. <i>Review of Scientific Instruments</i> , 2007, 78, 124703.	0.6	7
9	AZTEK: Adaptive zero TE k-space trajectories. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 926-935.	1.9	7
10	A temperature-controlled cryogen free cryostat integrated with transceiver-mode superconducting coil for high-resolution magnetic resonance imaging. <i>Review of Scientific Instruments</i> , 2020, 91, 055106.	0.6	5
11	Quantitative Gd-DOTA-based aerosol deposition mapping in the lungs of asthmatic rats using 3D UTE-MRI. <i>NMR in Biomedicine</i> , 2018, 31, e4013.	1.6	4
12	Static field homogeneity artifacts due to magnetic flux expulsion by HTS coils for high-resolution magnetic resonance imaging. <i>Applied Physics Letters</i> , 2020, 117, 254101.	1.5	4
13	Versatile cryogen-free cryostat for the electromagnetic characterization of superconducting radiofrequency coils. <i>EPJ Techniques and Instrumentation</i> , 2020, 7, .	0.5	2