

Christoph Juchem

List of Publications by Year in descending order

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55
papers

2,164
citations

257357

24
h-index

254106

43
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57
all docs

57
docs citations

57
times ranked

2075
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution simulation of B_0 field conditions in the human heart from segmented computed tomography images. NMR in Biomedicine, 2022, 35, e4739.	1.6	1
2	B_0 shimming for in vivo magnetic resonance spectroscopy: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4350.	1.6	60
3	Preprocessing, analysis and quantification in single-voxel magnetic resonance spectroscopy: experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4257.	1.6	196
4	B_0 shimming of the human heart at 7T. Magnetic Resonance in Medicine, 2021, 85, 182-196.	1.9	13
5	Contribution of macromolecules to brain ^1H MR spectra: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4393.	1.6	92
6	Development and validation of 3D MPACSFP to enable MRI in inhomogeneous magnetic fields. Magnetic Resonance in Medicine, 2021, 85, 831-844.	1.9	9
7	Magnetic resonance Spectrum simulator (MARSS), a novel software package for fast and computationally efficient basis set simulation. NMR in Biomedicine, 2021, 34, e4129.	1.6	31
8	Across-vendor standardization of semi-LASER for single-voxel MRS at 3T. NMR in Biomedicine, 2021, 34, e4218.	1.6	43
9	Advanced single voxel ^1H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4236.	1.6	98
10	INSPECTOR: free software for magnetic resonance spectroscopy data inspection, processing, simulation and analysis. Scientific Reports, 2021, 11, 2094.	1.6	27
11	FAMASITO: FASTMAP Shim Tool towards user-friendly single-step B_0 homogenization. NMR in Biomedicine, 2021, 34, e4486.	1.6	2
12	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4484.	1.6	144
13	Are Cram�r lower bounds an accurate estimate for standard deviations in in vivo magnetic resonance spectroscopy?. NMR in Biomedicine, 2021, 34, e4521.	1.6	15
14	Hippocampal single-voxel MR spectroscopy with a long echo time at 3 T using semi-LASER sequence. NMR in Biomedicine, 2021, 34, e4538.	1.6	3
15	On the way to routine cardiac MRI at 7 Tesla - a pilot study on consecutive 84 examinations. PLoS ONE, 2021, 16, e0252797.	1.1	11
16	In vivo evidence of differential frontal cortex metabolic abnormalities in progressive and relapsing-remitting multiple sclerosis. NMR in Biomedicine, 2021, 34, e4590.	1.6	9
17	Frequency drift in MR spectroscopy at 3T. NeuroImage, 2021, 241, 118430.	2.1	28
18	Simultaneous optimization of crusher and phase cycling schemes for magnetic resonance spectroscopy: an extension of dephasing optimization through coherence order pathway selection. Magnetic Resonance in Medicine, 2020, 83, 391-402.	1.9	10

#	ARTICLE	IF	CITATIONS
19	Theoretical description of modern ^1H in Vivo magnetic resonance spectroscopic pulse sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1008-1029.	1.9	18
20	UTE-SPECIAL for 3D localization at an echo time of 4 ms on a clinical 3T scanner. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106670.	1.2	1
21	Dynamic multicoil technique (DYNAMITE) MRI on human brain. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2953-2963.	1.9	5
22	A semi-LASER, single-voxel spectroscopic sequence with a minimal echo time of 20.1 ms in the human brain at 3 T. <i>NMR in Biomedicine</i> , 2020, 33, e4324.	1.6	12
23	Elevated homocarnosine and GABA in subject on isoniazid as assessed through ^1H MRS at 7T. <i>Analytical Biochemistry</i> , 2020, 599, 113738.	1.1	6
24	Concentration and effective T_2 relaxation times of macromolecules at 3T. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2327-2337.	1.9	15
25	Quantifying the Metabolic Signature of Multiple Sclerosis by in vivo Proton Magnetic Resonance Spectroscopy: Current Challenges and Future Outlook in the Translation From Proton Signal to Diagnostic Biomarker. <i>Frontiers in Neurology</i> , 2019, 10, 1173.	1.1	40
26	Dephasing optimization through coherence order pathway selection (DOTCOPS) for improved crusher schemes in MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2209-2222.	1.9	26
27	Combined imaging and shimming with the dynamic multicoil technique. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1424-1433.	1.9	6
28	Quantification of glutathione transverse relaxation time T_2 using echo time extension with variable refocusing selectivity and symmetry in the human brain at 7 Tesla. <i>Journal of Magnetic Resonance</i> , 2018, 290, 1-11.	1.2	15
29	The effects of ketamine on prefrontal glutamate neurotransmission in healthy and depressed subjects. <i>Neuropsychopharmacology</i> , 2018, 43, 2154-2160.	2.8	146
30	Elevated γ -Hydroxybutyrate and Branched-Chain Amino Acid Levels Predict Deterioration of Glycemic Control in Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 2473-2481.	1.8	62
31	The public multicoil information (PUMCIN) policy. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2042-2047.	1.9	8
32	B_0 magnetic field homogeneity and shimming for in vivo magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2017, 529, 17-29.	1.1	76
33	Reproducibility measurement of glutathione, GABA, and glutamate: Towards in vivo neurochemical profiling of multiple sclerosis with MR spectroscopy at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 187-198.	1.9	75
34	Imaging the intratumoral-peritumoral extracellular pH gradient of gliomas. <i>NMR in Biomedicine</i> , 2016, 29, 309-319.	1.6	52
35	Dynamic multicoil tailored excitation for transmit B_1 correction at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 83-93.	1.9	6
36	Brain region and activity-dependent properties of M for calibrated fMRI. <i>NeuroImage</i> , 2016, 125, 848-856.	2.1	26

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37	CHAPTER 4. B0 Shimming Technology. New Developments in NMR, 2016, , 166-207.	0.1	16
38	Dynamic multi-coil technique (DYNAMITE) shimming for echo-planar imaging of the human brain at 7 Tesla. NeuroImage, 2015, 105, 462-472.	2.1	63
39	Multi-slice MRI with the dynamic multi-coil technique. NMR in Biomedicine, 2015, 28, 1526-1534.	1.6	15
40	Basis of Magnetic Resonance. , 2014, , 3-14.		4
41	DYNAMIC Multi-coil TEchnique (DYNAMITE) shimming of the rat brain at 11.7%T. NMR in Biomedicine, 2014, 27, 897-906.	1.6	30
42	In vivo O-Space imaging with a dedicated 12 cm Z^2 insert coil on a human 3T scanner using phase map calibration. Magnetic Resonance in Medicine, 2013, 69, 444-455.	1.9	31
43	Multi-coil magnetic field modeling. Journal of Magnetic Resonance, 2013, 236, 95-104.	1.2	34
44	Multislice 1^H MRSI of the human brain at 7 T using dynamic B_0 and B_1 shimming. Magnetic Resonance in Medicine, 2012, 68, 662-670.	1.9	62
45	Dynamic multi-coil shimming of the human brain at 7T. Journal of Magnetic Resonance, 2011, 212, 280-288.	1.2	126
46	Multicoil shimming of the mouse brain. Magnetic Resonance in Medicine, 2011, 66, 893-900.	1.9	45
47	Dynamic shimming of the human brain at 7 T. Concepts in Magnetic Resonance Part B, 2010, 37B, 116-128.	0.3	67
48	Magnetic field homogenization of the human prefrontal cortex with a set of localized electrical coils. Magnetic Resonance in Medicine, 2010, 63, 171-180.	1.9	58
49	Magnetic field modeling with a set of individual localized coils. Journal of Magnetic Resonance, 2010, 204, 281-289.	1.2	76
50	1^H -MRS of the macaque monkey primary visual cortex at 7 T: strategies and pitfalls of shimming at the brain surface. Magnetic Resonance Imaging, 2007, 25, 902-912.	1.0	11
51	Simultaneous EEG and fMRI in the macaque monkey at 4.7 Tesla. Magnetic Resonance Imaging, 2006, 24, 335-342.	1.0	22
52	Combined passive and active shimming for in vivo MR spectroscopy at high magnetic fields. Journal of Magnetic Resonance, 2006, 183, 278-289.	1.2	51
53	High-resolution 1^H chemical shift imaging in the monkey visual cortex. Magnetic Resonance in Medicine, 2005, 54, 1541-1546.	1.9	14
54	High-field localized 1^H NMR spectroscopy in the anesthetized and in the awake monkey. Magnetic Resonance Imaging, 2004, 22, 1361-1372.	1.0	31

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55	Region and volume dependencies in spectral line width assessed by ¹ H 2D MR chemical shift imaging in the monkey brain at 7 T. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1373-1383.	1.0	21