

Francesca Frijia

List of Publications by Year in descending order

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40
papers

406
citations

933447

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839539

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40
all docs

40
docs citations

40
times ranked

640
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time cardiac metabolism assessed with hyperpolarized [¹³ C]acetate in a large animal model. Contrast Media and Molecular Imaging, 2015, 10, 194-202.	0.8	44
2	Area Prostriata in the Human Brain. Current Biology, 2017, 27, 3056-3060.e3.	3.9	43
3	Assessment of real-time myocardial uptake and enzymatic conversion of hyperpolarized [¹³ C]pyruvate in pigs using slice selective magnetic resonance spectroscopy. Contrast Media and Molecular Imaging, 2012, 7, 85-94.	0.8	40
4	Three dimensional MRF obtains highly repeatable and reproducible multi-parametric estimations in the healthy human brain at 1.5T and 3T. NeuroImage, 2021, 226, 117573.	4.2	26
5	Hyperpolarized MRS surface coil: Design and signal-to-noise ratio estimation. Medical Physics, 2010, 37, 5361-5369.	3.0	24
6	Focal cortical dysplasia type IIb in the rolandic cortex: Functional reorganization after early surgery documented by passive task functional MRI. Epilepsia, 2012, 53, e141-5.	5.1	22
7	How the signal-to-noise ratio influences hyperpolarized ¹³ C dynamic MRS data fitting and parameter estimation. NMR in Biomedicine, 2012, 25, 925-934.	2.8	18
8	From Cortical and Subcortical Grey Matter Abnormalities to Neurobehavioral Phenotype of Angelman Syndrome: A Voxel-Based Morphometry Study. PLoS ONE, 2016, 11, e0162817.	2.5	18
9	3D CMR Mapping of Metabolism by Hyperpolarized 13C-Pyruvate in Ischemia-Reperfusion. JACC: Cardiovascular Imaging, 2013, 6, 743-744.	5.3	15
10	DNP Methods for Cardiac Metabolic Imaging with Hyperpolarized [1-13C]pyruvate Large Dose Injection in Pigs. Applied Magnetic Resonance, 2012, 43, 299-310.	1.2	12
11	Magnetic resonance butterfly coils: Design and application for hyperpolarized 13C studies. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3282-3290.	5.0	9
12	Design and Simulation of a Helmholtz Coil for Magnetic Resonance Imaging and Spectroscopy Experiments with a 3T MR Clinical Scanner. Applied Magnetic Resonance, 2019, 50, 1083-1097.	1.2	9
13	Experimental approaches to cardiac imaging with hyperpolarized [1-13c]pyruvate: a feasibility study in rats with a 3T clinical scanner. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	8
14	Design and simulation of a dual-tuned 1H/23Na birdcage coil for MRS studies in human calf. Applied Magnetic Resonance, 2015, 46, 1221-1238.	1.2	8
15	Simulation, design, and test of an elliptical surface coil for magnetic resonance imaging and spectroscopy. Concepts in Magnetic Resonance Part B, 2017, 47B, .	0.7	8
16	Cortical BOLD responses to moderate- and high-speed motion in the human visual cortex. Scientific Reports, 2018, 8, 8357.	3.3	8
17	Cardiac metabolism with hyperpolarized [1-13c]pyruvate: a feasibility study in mini-pig with a large dose injection. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	7
18	Cardiac Metabolism in a Pig Model of Ischemia-Reperfusion by Cardiac Magnetic Resonance with Hyperpolarized 13C-Pyruvate. IJC Metabolic & Endocrine, 2015, 6, 17-23.	0.5	7

#	ARTICLE	IF	CITATIONS
19	3D-Flair sequence at 3T in cochlear otosclerosis. <i>European Radiology</i> , 2016, 26, 3744-3751.	4.5	7
20	Biomolecular imaging of ¹³ C-butyrate with dissolution-DNP: Polarization enhancement and formulation for in vivo studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 153-160.	3.9	7
21	Sodium Radiofrequency Coils for Magnetic Resonance: From Design to Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 1788.	3.1	7
22	An efficient method for electrical conductivity measurement in the RF range. <i>Concepts in Magnetic Resonance Part B</i> , 2010, 37B, 160-166.	0.7	6
23	A radiofrequency system for <i>in vivo</i> hyperpolarized ¹³ C MRS experiments in mice with a 3T MRI clinical scanner. <i>Scanning</i> , 2016, 38, 710-719.	1.5	6
24	Relationships Between Morphologic and Functional Patterns in the Polymicrogyric Cortex. <i>Cerebral Cortex</i> , 2018, 28, 1076-1086.	2.9	6
25	Efficiency evaluation of a ¹³ C Magnetic Resonance birdcage coil: Theory and comparison of four methods. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 2201-2205.	5.0	5
26	Delayed Post-Traumatic Fronto-Ethmoidal Sinus Mucocele Evaluated with Short and Long TE MR Spectroscopy. <i>Neuroradiology Journal</i> , 2013, 26, 693-698.	1.2	5
27	16-Channel Surface Coil for ¹³ C-Hyperpolarized Spectroscopic Imaging of Cardiac Metabolism in Pig Heart. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 53-61.	1.8	5
28	Detection of 3D Cardiac metabolism after injection of hyperpolarized [1- ¹³ C]pyruvate. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	3.3	4
29	Correlational analysis of electroencephalographic and end-tidal carbon dioxide signals during breath-hold exercise. , 2015, 2015, 6102-5.		4
30	A fast and simple method for calibrating the flip angle in hyperpolarized ¹³ C ¹³ C MRS experiments. <i>Concepts in Magnetic Resonance Part B</i> , 2015, 45, 78-84.	0.7	3
31	Patterns and predictors of language representation and the influence of epilepsy surgery on language reorganization in children and young adults with focal lesional epilepsy. <i>PLoS ONE</i> , 2020, 15, e0238389.	2.5	3
32	A novel method for coil efficiency estimation: Validation with a ¹³ C birdcage. <i>Concepts in Magnetic Resonance Part B</i> , 2012, 41B, 139-143.	0.7	2
33	Brain Magnetic Spectroscopy Imaging and Hereditary Spastic Paraplegia: A Focused Systematic Review on Current Landmarks and Future Perspectives. <i>Frontiers in Neurology</i> , 2020, 11, 515.	2.4	2
34	Inductance Calculation in Magnetic Resonance Solenoid Coils with Strip and Wire Conductors. <i>Applied Magnetic Resonance</i> , 2020, 51, 703-710.	1.2	2
35	Radio Frequency Coils for Hyperpolarized ¹³ C Magnetic Resonance Experiments with a 3T MR Clinical Scanner: Experience from a Cardiovascular Lab. <i>Electronics (Switzerland)</i> , 2021, 10, 366.	3.1	2
36	Design, simulation, and test of surface and volume radio frequency coils for ¹³ C magnetic resonance imaging and spectroscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 081402.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Comparison between volume and surface coils for pig cardiac metabolism studies with hyperpolarized ¹³ C MRS. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	1
38	Segmental analysis of cardiac metabolism by hyperpolarized [1- ¹³ C] pyruvate: an in-vivo 3D MRI study in pigs. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	1
39	Design of a dedicated circular coil for Magnetic Resonance Spectroscopy studies in small phantoms and animal acquisition with a 3 Tesla Magnetic Resonance clinical scanner. Polish Journal of Medical Physics and Engineering, 2020, 26, 269-276.	0.6	0
40	A Practical Guide to Estimating Coil Inductance for Magnetic Resonance Applications. Electronics (Switzerland), 2022, 11, 1974.	3.1	0