

Jean-Noel Hyacinthe

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

712
citations

623734

14
h-index

580821

25
g-index

40
all docs

40
docs citations

40
times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	PFOB sonosensitive microdroplets: determining their interaction radii with focused ultrasound using MR thermometry and a Gaussian convolution kernel computation. <i>International Journal of Hyperthermia</i> , 2022, 39, 108-119.	2.5	3
2	How to improve the efficiency of a traditional dissolution dynamic nuclear polarization (dDNP) apparatus: Design and performance of a fluid path compatible dDNP/LOD-ESR probe. <i>Journal of Magnetic Resonance</i> , 2022, 338, 107197.	2.1	5
3	Magnetic resonance imaging-guided lumbar nerve root infiltrations: optimization of an in-house protocol. <i>BMC Medical Imaging</i> , 2021, 21, 110.	2.7	3
4	Perfluorocarbon Emulsion Contrast Agents: A Mini Review. <i>Frontiers in Chemistry</i> , 2021, 9, 810029.	3.6	13
5	Enhancement of HIFU thermal therapy in perfused tissue models using micron-sized FTAC-stabilized PFOB-core endovascular sonosensitizers. <i>International Journal of Hyperthermia</i> , 2020, 37, 1116-1130.	2.5	10
6	Evaluating the potential of hyperpolarised [1-13C] L-lactate as a neuroprotectant metabolic biosensor for stroke. <i>Scientific Reports</i> , 2020, 10, 5507.	3.3	26
7	Mild hyperthermia by MR-guided focused ultrasound in an ex vivo model of osteolytic bone tumour: optimization of the spatio-temporal control of the delivered temperature. <i>Journal of Translational Medicine</i> , 2019, 17, 350.	4.4	20
8	Micron-sized PFOB liquid core droplets stabilized with tailored-made perfluorinated surfactants as a new class of endovascular sono-sensitizers for focused ultrasound thermotherapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 927-939.	5.8	11
9	Self-Scanned HIFU Ablation of Moving Tissue Using Real-Time Hybrid US-MR Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2182-2191.	4.2	16
10	Hybrid ultrasound-MR guided HIFU treatment method with 3 D motion compensation. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2511-2523.	3.0	15
11	Molecular oxygen loading in candidate theranostic droplets stabilized with biocompatible fluorinated surfactants: Particle size effect and application to in situ ¹⁹ F MRI mapping of oxygen partial pressure. <i>Journal of Magnetic Resonance</i> , 2018, 295, 27-37.	2.1	13
12	In vivo pink-beam imaging and fast alignment procedure for rat brain tumor radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 339-343.	2.4	10
13	Photoinduced Nonpersistent Radicals as Polarizing Agents for X-Nuclei Dissolution Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22632-22639.	3.1	35
14	Correcting surface coil excitation inhomogeneities in single-shot SPEN MRI. <i>Journal of Magnetic Resonance</i> , 2015, 259, 199-206.	2.1	5
15	Optimal Glass-Forming Solvent Brings Sublimation Dynamic Nuclear Polarization to ¹²⁹ Xe Hyperpolarization Biomedical Imaging Standards. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5020-5025.	3.1	19
16	Pulsatile blood flow in human bone assessed by laser-Doppler flowmetry and the interpretation of photoplethysmographic signals. <i>Physiological Measurement</i> , 2013, 34, N25-N40.	2.1	18
17	Hyperpolarization without persistent radicals for in vivo real-time metabolic imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18064-18069.	7.1	90
18	Haemodynamic responses to temperature changes of human skeletal muscle studied by laser-Doppler flowmetry. <i>Physiological Measurement</i> , 2012, 33, 1181-1197.	2.1	13

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19	ARFI-prepared MRgHIFU in liver: Simultaneous mapping of ARFI-displacement and temperature elevation, using a fast GRE-EPI sequence. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 932-946.	3.0	44
20	Matching between regional coronary vasodilator capacity and corresponding circumferential strain in individuals with normal and increasing body weight. <i>Journal of Nuclear Cardiology</i> , 2012, 19, 693-703.	2.1	4
21	High Time-Resolved Cardiac Functional Imaging Using Temporal Regularization for Small Animal on a Clinical 3T Scanner. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 929-935.	4.2	3
22	Manganese kinetics demonstrated double contrast in acute but not in chronic infarction in a mouse model of myocardial occlusion reperfusion. <i>NMR in Biomedicine</i> , 2012, 25, 489-497.	2.8	4
23	Myocardial infarction quantification with Manganese-enhanced MRI (MEMRI) in mice using a 3T clinical scanner. <i>NMR in Biomedicine</i> , 2010, 23, 503-513.	2.8	18
24	Spiral demystified. <i>Magnetic Resonance Imaging</i> , 2010, 28, 862-881.	1.8	59
25	The role of imaging and molecular imaging in the early detection of metabolic and cardiovascular dysfunctions. <i>International Journal of Obesity</i> , 2010, 34, S67-S81.	3.4	6
26	Hyperpolarizing Gases via Dynamic Nuclear Polarization and Sublimation. <i>Physical Review Letters</i> , 2010, 105, 018104.	7.8	35
27	In vivo labelling of resting monocytes in the reticuloendothelial system with fluorescent iron oxide nanoparticles prior to injury reveals that they are mobilized to infarcted myocardium. <i>European Heart Journal</i> , 2010, 31, 1410-1420.	2.2	37
28	SNR enhancement of highly-accelerated real-time cardiac MRI acquisitions based on non-local means algorithm. <i>Medical Image Analysis</i> , 2009, 13, 598-608.	11.6	14
29	Cine and tagged cardiovascular magnetic resonance imaging in normal rat at 1.5 T: a rest and stress study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, 48.	3.3	23
30	In vivo myocardial infarct area at risk assessment in the rat using manganese enhanced magnetic resonance imaging (MEMRI) at 1.5T. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1422-1430.	3.0	8
31	Feasibility of complementary spatial modulation of magnetization tagging in the rat heart after manganese injection. <i>NMR in Biomedicine</i> , 2008, 21, 15-21.	2.8	12
32	High-Resolution Complementary Spatial Modulation of Magnetization (CSPAMM) Rat Heart Tagging on a 1.5 Tesla Clinical Magnetic Resonance System. <i>Investigative Radiology</i> , 2007, 42, 204-210.	6.2	12
33	Development of a Fully Digital and Low-frequency NMR System for Polarization Measurement of Hyperpolarized Gases. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , 2006, , .	0.0	4
34	Optimization of cardiac cine in the rat on a clinical 1.5-T MR system. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 144-151.	2.0	14
35	Xenon NMR as a Probe for Microporous and Mesoporous Solids, Polymers, Liquid Crystals, Solutions, Flames, Proteins, Imaging. <i>ChemInform</i> , 2006, 37, no.	0.0	2
36	Extrema Temporal Chaining: A New Method for Computing the 2D-Displacement Field of the Heart from Tagged MRI. <i>Lecture Notes in Computer Science</i> , 2006, , 897-908.	1.3	4

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37	Laser-Polarized Xenon Nuclear Magnetic Resonance, a Potential Tool for Brain Perfusion Imaging: Measurement of the Xenon T1 In Vivo. <i>Methods in Enzymology</i> , 2004, 385, 149-165.	1.0	3
38	Method to determine in vivo the relaxation time T1 of hyperpolarized xenon in rat brain. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 1014-1018.	3.0	22
39	Inflow effect correction in fast gradient-echo perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 885-891.	3.0	51
40	A Novel Concept of a Phased-Array HIFU Transducer Optimized for MR-Guided Hepatic Ablation: Embodiment and First In-Vivo Studies. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	8