

# 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  | Hyperpolarization without persistent radicals for in vivo real-time metabolic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18064-18069.  | 7.1  | 90        |
| 2  | Spiral demystified. Magnetic Resonance Imaging, 2010, 28, 862-881.   | 1.8  | 59        |
| 3  | Inflow effect correction in fast gradient-echo perfusion imaging. Magnetic Resonance in Medicine, 2003, 50, 885-891.   | 3.0  | 51        |
| 4  | ARFI-prepared MRgHIFU in liver: Simultaneous mapping of ARFI displacement and temperature elevation, using a fast GRE-EPI sequence. Magnetic Resonance in Medicine, 2012, 68, 932-946.   | 3.0  | 44        |
| 5  | 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. European Heart Journal, 2010, 31, 1410-1420. | 2.2  | 37        |
| 6  | Hyperpolarizing Gases via Dynamic Nuclear Polarization and Sublimation. Physical Review Letters, 2010, 105, 018104.  | 7.8  | 35        |
| 7  | Photoinduced Nonpersistent Radicals as Polarizing Agents for X-Nuclei Dissolution Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2015, 119, 22632-22639.   | 3.1  | 35        |
| 8  | Evaluating the potential of hyperpolarised [1-13C] L-lactate as a neuroprotectant metabolic biosensor for stroke. Scientific Reports, 2020, 10, 5507.  | 3.3  | 26        |
| 9  | Cine and tagged cardiovascular magnetic resonance imaging in normal rat at 1.5 T: a rest and stress study. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 48.   | 3.3  | 23        |
| 10 | Method to determine in vivo the relaxation time T1 of hyperpolarized xenon in rat brain. Magnetic Resonance in Medicine, 2003, 49, 1014-1018.  | 3.0  | 22        |
| 11 | 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. Journal of Translational Medicine, 2019, 17, 350.             | 4.4  | 20        |
| 12 | Optimal Glass-Forming Solvent Brings Sublimation Dynamic Nuclear Polarization to <sup>129</sup> Xe Hyperpolarization Biomedical Imaging Standards. Journal of Physical Chemistry C, 2015, 119, 5020-5025.                                | 3.1  | 19        |
| 13 | Myocardial infarction quantification with Manganese-enhanced MRI (MEMRI) in mice using a 3T clinical scanner. NMR in Biomedicine, 2010, 23, 503-513.   | 2.8  | 18        |
| 14 | Pulsatile blood flow in human bone assessed by laser-Doppler flowmetry and the interpretation of photoplethysmographic signals. Physiological Measurement, 2013, 34, N25-N40.  | 2.1  | 18        |
| 15 | Self-Scanned HIFU Ablation of Moving Tissue Using Real-Time Hybrid US-MR Imaging. IEEE Transactions on Biomedical Engineering, 2019, 66, 2182-2191.  | 4.2  | 16        |
| 16 | Hybrid ultrasound-MR guided HIFU treatment method with 3 D motion compensation. Magnetic Resonance in Medicine, 2018, 79, 2511-2523.   | 3.0  | 15        |
| 17 | Optimization of cardiac cine in the rat on a clinical 1.5-T MR system. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2006, 19, 144-151.  | 2.0  | 14        |
| 18 | SNR enhancement of highly-accelerated real-time cardiac MRI acquisitions based on non-local means algorithm. Medical Image Analysis, 2009, 13, 598-608.  | 11.6 | 14        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | Molecular oxygen loading in candidate theranostic droplets stabilized with biocompatible fluorinated surfactants: Particle size effect and application to in situ <sup>19</sup> F MRI mapping of oxygen partial pressure. <i>Journal of Magnetic Resonance</i> , 2018, 295, 27-37. | 2.1 | 13        |
| 21 | Perfluorocarbon Emulsion Contrast Agents: A Mini Review. <i>Frontiers in Chemistry</i> , 2021, 9, 810029.  | 3.6 | 13        |
| 22 | 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        |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | In vivopink-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        |
| 27 | 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         |
| 28 | 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         |
| 29 | 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         |
| 30 | Correcting surface coil excitation inhomogeneities in single-shot SPEN MRI. <i>Journal of Magnetic Resonance</i> , 2015, 259, 199-206.   | 2.1 | 5         |
| 31 | 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         |
| 32 | 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         |
| 33 | 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         |
| 34 | 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         |
| 35 | 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         |
| 36 | Laser-Polarized Xenon Nuclear Magnetic Resonance, a Potential Tool for Brain Perfusion Imaging: Measurement of the Xenon T1In Vivo. <i>Methods in Enzymology</i> , 2004, 385, 149-165.   | 1.0 | 3         |

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|----|---|-----|-----------|
| 37 | High Time-Resolved Cardiac Functional Imaging Using Temporal Regularization for Small Animal on a Clinical 3T Scanner. IEEE Transactions on Biomedical Engineering, 2012, 59, 929-935.                                      | 4.2 | 3         |
| 38 | Magnetic resonance imaging-guided lumbar nerve root infiltrations: optimization of an in-house protocol. BMC Medical Imaging, 2021, 21, 110.  | 2.7 | 3         |
| 39 | PFOB sonosensitive microdroplets: determining their interaction radii with focused ultrasound using MR thermometry and a Gaussian convolution kernel computation. International Journal of Hyperthermia, 2022, 39, 108-119. | 2.5 | 3         |
| 40 | Xenon NMR as a Probe for Microporous and Mesoporous Solids, Polymers, Liquid Crystals, Solutions, Flames, Proteins, Imaging. ChemInform, 2006, 37, no.  | 0.0 | 2         |