The stray magnetic fields in Magnetic Resonance Current Density Imaging (MRCDI)
Göksu, C., Scheffler, K., Siebner, H. R., Thielscher, A. & Hanson, L. G., 1 Jan 2019, (Accepted/In press) In : Physica Medica. 9 p.
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Towards precise brain stimulation: Is electric field simulation related to neuromodulation?
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Alginate Trisaccharide Binding Sites on the Surface of β-Lactoglobulin Identified by NMR Spectroscopy: Implications for Molecular Network Formation
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

A Robust Cryogenic RF Coil (88K) for In-vivo Hyperpolarized $^{13}$C MRI of Rats
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

Calibrated Coil Combination for Fixed-Geometry, Low-Frequency Coils with Application to Hyperpolarized $^{13}$C Measurements
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

Can Transcranial Electrical Stimulation Localize Brain Function?
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Combined Rapid Injection NMR and Simulation Approach to Probe Redox-Dependent Pathway Control in Living Cells
Jensen, P. R., Matos, M., Sonnenschein, N. & Meier, S., 2019, In : Analytical Chemistry. 91, 8, p. 5395-5402 8 p.
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Compact, low-cost NMR spectrometer and probe for dissolution DNP
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Correction of stray magnetic fields caused by cable currents is essential for human in-vivo brain magnetic resonance current density imaging (MRCDI)
Göksu, C., Scheffler, K., Siebner, H. R., Hanson, L. G. & Thielscher, A., 2019.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

Cryogen-free dissolution dynamic nuclear polarization polarizer operating at 3.35 T, 6.70 T, and 10.1 T
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review
Cryogenic Single and Array Coils for Magnetic Resonance Systems

Design of a local quasi-distributed tuning and matching circuit for dissolution DNP cross polarization
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Dynamic Imaging of Glucose and Lactate Metabolism by C-13-MRS without Hyperpolarization
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Engineering two-dimensional transition metal dichalcogenide electrocatalysts for water splitting hydrogen generation
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

Gadolinium Effect at High-Magnetic-Field DNP: 70% $^{13}$C Polarization of [U-$^{13}$C] Glucose Using Trityl
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

High-Q, tunable High Temperature Superconducting receiver coil for $^{13}$C applications
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

Hyperpolarized $^{13}$C MRI: Path to Clinical Translation in Oncology
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Improved Decoupling for Low Frequency MRI Arrays using Non-conventional Preamplifier Impedance
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Optimized microwave delivery in dDNP
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

MR-skanning til diagnostik af nonaikoholisk fedtleversygdom
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

On the SNR of Cryogenic Receive Coils when using Room Temperature Preamplifiers
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

Optimized microwave delivery in dDNP
PIN diode driver for NMR and MRI
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Protocol for multi-site quantitative evaluation of $^{13}$C radio frequency coils
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

Real-Time Detection of Intermediates in Rhodium Catalyzed Hydrogenation of Alkynes and Alkenes by Dissolution DNP
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Reversible and Vapochromic Chemisorption of Ammonia by a Copper(II) Coordination Polymer
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Self-decoupled coils for MRI receiver arrays based in an external resonator
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Core-Shell Structure of Organic Crystalline Nanoparticles Determined by Relayed Dynamic Nuclear Polarization NMR
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Cryogenic Preamplifiers for Magnetic Resonance Imaging
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Radiative MRI Coil Design Using Parasitic Scatterers: MRI Yagi
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

3D Hyperpolarized C-13 EPI with Calibrationless Parallel Imaging
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

3-Fold SNR Enhancement of Small Animal 13C MRI using a Cryogenically Cooled (88 K) RF Coil
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

Accurate Noise Figure Measurements for Highly Mismatched Preamplifiers
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review
Dynamic coronary MR angiography in a pig model with hyperpolarized water

Efficient Hyperpolarization of U-13 C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals

Encoding of non-MR Signals in Magnetic Resonance Imaging

Gamma‐aminobutyric acid edited echo‐planar spectroscopic imaging (EPSI) with MEGA‐sLASER at 7T
Magnusson, P. O., Boer, V. O., Marsman, A., Paulson, O. B., Hanson, L. G. & Petersen, E. T., 2018, In : Magnetic Resonance in Medicine. 81, 2, p. 773-780

General purpose electronics for real-time processing and encoding of non-MR data in MR acquisitions

Ideal Coil Decoupling in Receive Arrays using Negative Resistance Preamplifiers


Kinetic Analysis of Hexose Conversion to Methyl Lactate by Sn Beta: Effects of Substrate Masking and of Water

Low microwave attenuation and low thermal loss waveguides for dDNP probes
Low microwave attenuation and low thermal loss waveguides for dDNP probes
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Molecular imaging of tumor photoimmunotherapy: Evidence of photosensitized tumor necrosis and hemodynamic changes
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Multichannel Hyperpolarized 13C MRI in a Patient with Liver Metastases using Multi-slice EPI and an Alternating Projection Method for Denoising
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Photogenerated Radical in Phenylglyoxylic Acid for In Vivo Hyperpolarized 13C MR with Photosensitive Metabolic Substrates
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Probing cardiac metabolism by hyperpolarized 13C MR using an exclusively endogenous substrate mixture and photo-induced nonpersistent radicals
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Signal to noise comparison of metabolic imaging methods on a clinical 3T MRI
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Slice-wise motion tracking during simultaneous EEG-fMRI
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Stable isotope-resolved analysis with quantitative dissolution dynamic nuclear polarization
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Ultra-low power transmitter for encoding non-MR signals in Magnetic Resonance (MR) recordings
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Versatile polarizer NMR spectrometer
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

A cryogenic measurement setup for characterization microwave devices
A microwave window for K band electromagnetic systems
Rybalko, O., 2017, In : Microwave and Optical Technology Letters. 59, 4, p. 834-7
Research output: Contribution to journal – Journal article – Annual report year: 2017 › Research › peer-review

A narrow line UV-induced non-persistent radical in view of generating highly polarized transportable glucose solid samples
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research

Antioxidant treatment attenuates lactate production in diabetic nephropathy
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Bloch simulation and MR fundamentals visualized
Hanson, L. G., 2017. 1 p.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Characterization and flip angle calibration of 13C surface coils for hyperpolarization studies
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Day 1 of MRI and NMR education: Interactive visualization of MR basics
Hanson, L. G., 2017. 1 p.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

dDNP as an emergent real time analytical method for catalytic reactions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

dDNP as an emerging real time analytical method for catalytic reactions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes
Meier, S., Karlsson, M. & Jensen, P. R., 2017, In : ACS Sustainable Chemistry & Engineering. 5, 6, p. 5571-5577
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

DNP NMR of carbohydrate converting enzymes
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Echo Planar Spectroscopic Imaging of Hyperpolarized 13C in a Clinical System with Reduced Chemical Shift Artifacts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review
Effect of a treat-to-target strategy based on methotrexate and intra-articular betamethasone with or without additional cyclosporin on MRI-assessed synovitis, osteitis, tenosynovitis, bone erosion, and joint space narrowing in early rheumatoid arthritis: results from a 2-year randomized double-blind placebo-controlled trial (CIMESTRA)


Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Encoding of inductively measured k-space trajectories in MR raw data
Pedersen, J. O., Hanson, C. G., Xue, R. & Hanson, L. G., 2017. 7 p.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Forming of space charge wave with broad frequency spectrum in helical relativistic two-stream electron beams: Paper
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

GABA-edited echo-planar spectroscopic imaging (EPSI) with MEGA-sLASER at 7T
Research output: Contribution to conference › Poster – Annual report year: 2018 › Research › peer-review

Gradient distortions in EEG provide motion tracking during simultaneous EEG-fMRI
Laustsen, M., Andersen, M., Madsen, K. H. & Hanson, L. G., 2017. 2 p.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Hyperpolarized $^{133}$Cs is a sensitive probe for real-time monitoring of biophysical environments
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Hyperpolarized Water Perfusion in the Porcine Brain – a Pilot Study
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Hyperpolarized xenon by d-DNP using the clinical GE SpinLab polarizer system
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Imaging regional metabolic changes in the ischemic rat heart in vivo using hyperpolarized(1-13C)Pyruvate
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Improved Decoupling for 13C coil Arrays Using Non-Conventional Matching and Preamplifier Impedance
Improved reconstruction for IDEAL spiral CSI
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Low conversion loss 94 GHz and 188 GHz doublers in InP DHBT technology
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Low cost, compact, two-channel NMR spectrometer for CP-DNP
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Low-Noise Active Decoupling Circuit and its Application to 13C Cryogenic RF Coils at 3T
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Low RF-field strength cross polarization combined with photo-induced non-persistent radicals for clinically applicable dDNP
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Mary had a little Lamb: Scanner-recorded speech during MRI without gradient-induced sound
Pedersen, J. O., Hanson, C., Xue, R. & Hanson, L. G., 2017. 2 p.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Measuring glucose cerebral metabolism in the healthy mouse using hyperpolarized C-13 magnetic resonance
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Microstrip Resonator for High Field MRI with Capacitor-Segmented Strip and Ground Plane
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Monitoring Cancer Response to Treatment with Hyperpolarized 13C MRS

MRI
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2017 › Research › peer-review
Non-Cartesian Parallel Imaging Reconstruction of Undersampled IDEAL Spiral 13C CSI Data
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Plural three-wave resonances of space charge wave harmonics in transit section of klystron-type two-stream FEL with helical electron beam
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Practical Aspects of Preamplifier Designs for 13C Imaging.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Preparation of Radical-Free Hyperpolarized Water using Photo-induced non-persistent Radicals on a "SpinLab-like" dissolution-DNP Polarizer
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Probing of biochemical pathways in clonal pancreatic β–cells by quantitative dDNPs of metabolite extracts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Quantifying Biochemical Activities in Living Cells with 13C dDNP NMR
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Renal MR angiography and perfusion in the pig using hyperpolarized water
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Simultaneous Imaging of hyperpolarized [1,4-13 C2]fumarate, [1-13 C]pyruvate and 18 F-FDG in a rat model of necrosis in a clinical PET/MR scanner
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Towards new vistas in preamplifier design for MRI
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

16-Channel surface coil for 13C-hyperpolarized spectroscopic imaging of cardiac metabolism in pig heart
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
A novel MR contrast agent for angiography and perfusion: Hyperpolarized water
Lipsø, H. K. W., 2016, Technical University of Denmark, Department of Electrical Engineering. 149 p.

Decoupling Scheme for a Cryogenic Rx-Only RF Coil for 13C Imaging at 3T
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2016 › Research › peer-review

Difference between Extra- and Intracellular T1 Values of Carboxylic Acids Affects the Quantitative Analysis of Cellular Kinetics by Hyperpolarized NMR
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Dissolution Dynamic Nuclear Polarization capability study with fluid path
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Educational simulator app and web page for exploring Nuclear and Compass Magnetic Resonance
Hanson, L. G., 2016. 3 p.
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

Efficiency Analysis of Magnetic Field Measurement for MR Electrical Impedance Tomography (MREIT)
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

High-field dissolution dynamic nuclear polarization of [1-13C]pyruvic acid
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

HP Xenon by d-DNP using the clinical GE SPINlab polarizer system
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Hyperpolarised Organic Phosphates as NMR Reporters of Compartmental pH
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Hyperpolarized 13C MR angiography
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Hyperpolarized 13C Urea Relaxation Mechanism Reveals Renal Changes in Diabetic Nephropathy
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Imaging Renal Urea Handling in Rats at Millimeter Resolution using Hyperpolarized Magnetic Resonance Relaxometry
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
Interactive web site and app for early magnetic resonance education
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2016 › Research › peer-review

Investigating tumor perfusion by hyperpolarized (13) C MRI with comparison to conventional gadolinium contrast-enhanced MRI and pathology in orthotopic human GBM xenografts: Correlation of 13C Perfusion Imaging and Gd-Enhanced Contrast MRI
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Large dose hyperpolarized water with dissolution-DNP at high magnetic field
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Large field-of-view transmission line resonator for high field MRI
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Measuring Motion-Induced B0-Fluctuations in the Brain Using Field Probes
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Microwave-gated dynamic nuclear polarization
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Muscle growth is reduced in 15-month-old children with cerebral palsy
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

On the present and future of dissolution-DNP
Ardenkjær-Larsen, J. H., 2016, In: Journal of Magnetic Resonance. 264, p. 3-12
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Optimal Value of Series Capacitors for Uniform Field Distribution in Transmission Line MRI Coils
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Oxygen metabolic competition in the lactic acidotic diabetic kidney: A point of no return?
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2016 › Research › peer-review

Probing treatment response of glutaminolytic prostate cancer cells to natural drugs with hyperpolarized [5-13C]glutamine
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review
Prospective motion correction for MRI using EEG-equipment
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

Regional brain volumes, diffusivity, and metabolite changes after electroconvulsive therapy for severe depression
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Simultaneous PET/MRI with 13C magnetic resonance spectroscopic imaging (hyperPET): phantom-based evaluation of PET quantification
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Spectroscopic approaches to resolving ambiguities of hyper-polarized NMR signals from different reaction cascades
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

TE01 mode converter for highly overmoded circular waveguide at 188 GHz
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Transmission Line Resonator Segmented with Series Capacitors
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Tunable 13C/1H dual channel matching circuit for dynamic nuclear polarization system with cross-polarization
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Ultrashort electromagnetic clusters formation by two-stream superheterodyne free electron lasers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Waveguide transition with vacuum window for multiband dynamic nuclear polarization systems
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
3D metabolic ex vivo sample imaging of hyperpolarized compounds using a 3D single-shot RARE (3D SS-RARE) sequence, combining spectral RF selectivity with under-sampled spectral encoding at signal read-out
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

A 282 GHz Probe for Dynamic Nuclear Polarization
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

A fast and simple method for calibrating the flip angle in hyperpolarized 13C MRS experiments
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

A setup for measuring characteristics of microwave electric vacuum devices with open resonance structures
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Improved Field Homogeneity for Transmission Line MRI Coils Using Series Capacitors
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

In Vivo Phenotyping of Tumor Metabolism in a Canine Cancer Patient with Simultaneous (18)F-FDG-PET and Hyperpolarized (13)C-Pyruvate Magnetic Resonance Spectroscopic Imaging (hyperPET): Mismatch Demonstrates that FDG may not Always Reflect the Warburg Effect
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Magnetic Resonance Angiography in the Pig using Hyperpolarized Water
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Modeling of Schottky Barrier Diode Millimeter-Wave Multipliers at Cryogenic Temperatures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review
Quantified pH imaging with hyperpolarized 13C-bicarbonate: Quantified pH Imaging with Hyperpolarized Bicarbonate
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Real-time cardiac metabolism assessed with hyperpolarized [1-13C]acetate in a large-animal model
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Simulation and comparison of coils for Hyperpolarized 13C MRS cardiac metabolism studies in pigs
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Simultaneous Hyperpolarized 13C-Pyruvate MRI and 18F-FDG PET (HyperPET) in 10 Dogs with Cancer
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Simultaneous hyperpolarized 13C-pyruvate MRI and 18F-FDG-PET in cancer (hyperPET): feasibility of a new imaging concept using a clinical PET/MRI scanner
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

The Ups and Downs of Classical and Quantum Formulations of Magnetic Resonance
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2015 › Research › peer-review

Design of a broadband passive X-band double-balanced mixer in SiGe HBT technology
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Fluid path system for dissolution and transport of a hyperpolarized material

Method and apparatus to hyperpolarize materials for enhanced mr techniques

Method of producing a composition, composition and its use
Research output: Patent › Patent – Annual report year: 2006 › Research
Method and apparatus for producing contrast agents for magnetic resonance imaging
Research output: Patent › Patent – Annual report year: 2004 › Research

Method and apparatus for producing contrast agents for magnetic resonance imaging
Research output: Patent › Patent – Annual report year: 2004 › Research

Method and arrangement for producing contrast agent for magnetic resonance imaging
Research output: Patent › Patent – Annual report year: 2004 › Research

Multidimensional nmr spectroscopy of a hyperpolarized sample
Research output: Patent › Patent – Annual report year: 2004 › Research

Methods and devices for dissolving hyperpolarised solid material for nmr analyses

Method of magnetic resonance investigation
Research output: Patent › Patent – Annual report year: 1999 › Research