Three-spin solid effect and the spin diffusion barrier in amorphous solids
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

High Intrarenal Lactate Production Inhibits the Renal Pseudohypoxic Response to Acutely Induced Hypoxia in Diabetes
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

A D-Band Rectangular Waveguide-to-Coplanar Waveguide Transition Using Metal Ridge
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – 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

Analysis of dDNP NMR metabolic data from cancer cells
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review

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

Brain changes induced by Electroconvulsive Therapy are broadly distributed
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Calibrated Coil Combination for Fixed-Geometry, Low-Frequency Coils with Application to Hyperpolarized 13C Measurements
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2019 › Research › peer-review
Can Transcranial Electrical Stimulation Localize Brain Function?

Coil profile estimation strategies for parallel imaging with hyperpolarized 13C MRI

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

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

Cryogenic Single and Array Coils for Magnetic Resonance Systems

Design of a local quasi-distributed tuning and matching circuit for dissolution DNP cross polarization

Dynamic Imaging of Glucose and Lactate Metabolism by C-13-MRS without Hyperpolarization

Engineering two-dimensional transition metal dichalcogenide electrocatalysts for water splitting hydrogen generation

Gadolinium Effect at High-Magnetic-Field DNP: 70% 13C Polarization of [U-13C] Glucose Using Trityl

High-Q, tunable High Temperature Superconducting receiver coil for 13C applications
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

Structural, biosynthetic and serological cross-reactive elucidation of capsular polysaccharides from Streptococcus pneumoniae serogroup 16
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

System Integration and Packaging of a Terahertz Photodetector at W-Band
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Targeted Metabolomics with Quantitative Dissolution Dynamic Nuclear Polarization
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

The stray magnetic fields in Magnetic Resonance Current Density Imaging (MRCDI)
Göksu, C., Scheffler, K., Siebner, H. R., Thielscher, A. & Hanson, L. G., 2019, In : Physica Medica. 59, p. 142-150
Research output: Contribution to journal › Journal article – 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
A comprehensive study of cryogenic cooled millimeter-wave frequency multipliers based on GaAs Schottky-barrier varactors

Analysis of dDNP NMR metabolic data from cancer cells (- poster)

A narrow line UV-induced non-persistent radical to generate highly polarized transportable glucose solid samples

Association and Dissociation of Optimal Noise and Input Impedance for Low-Noise Amplifiers

A virtual scanner for teaching fundamental magnetic resonance in biomedical engineering

Combined Hyperpolarized 13C-pyruvate MRS and 18F-FDG PET (HyperPET) Estimates of Glycolysis in Canine Cancer Patients

dDNP as a method to assess altered cellular metabolism in vitro

Development of a Symmetric Echo-Planar Spectroscopy Imaging Framework for Hyperpolarized 13C Imaging in a Clinical PET/MR Scanner

Development of Quantitative Magnetic Resonance Imaging (qMRI) Methods for Radiotherapy Response Studies
Rahbek, S., Hanson, L. G. & Mahmood, F., 2018.

Discovery of Intermediates of lacZ β-Galactosidase Catalyzed Hydrolysis Using dDNP NMR
Dynamic coronary MR angiography in a pig model with hyperpolarized water
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Efficient Hyperpolarization of U-13 C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

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
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

General purpose electronics for real-time processing and encoding of non-MR data in MR acquisitions
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Ideal Coil Decoupling in Receive Arrays using Negative Resistance Preamplifiers
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

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

Introduction to dissolution DNP: Overview, instrumentation, and human applications
Ardenkjær-Larsen, J. H., 2018, In : Emagres. 7, 4, p. 63-78
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Kinetic Analysis of Hexose Conversion to Methyl Lactate by Sn Beta: Effects of Substrate Masking and of Water
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Liquid-State Polarization of 30% through Photo-Induced Non-Persistent Radicals on 13C Pyruvic Acid
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Liquid-State 13C Polarization of 30% through Photoinduced Nonpersistent Radicals
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

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


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.

Forming of space charge wave with broad frequency spectrum in helical relativistic two-stream electron beams: Paper


GABA-edited echo-planar spectroscopic imaging (EPSI) with MEGA-sLASER at 7T


Gradient distortions in EEG provide motion tracking during simultaneous EEG-fMRI

Laustsen, M., Andersen, M., Madsen, K. H. & Hanson, L. G., 2017. 2 p.

Hyperpolarized 133Cs is a sensitive probe for real-time monitoring of biophysical environments


Hyperpolarized Water Perfusion in the Porcine Brain – a Pilot Study


Hyperpolarized xenon by d-DNP using the clinical GE SpinLab polarizer system


Imaging regional metabolic changes in the ischemic rat heart in vivo using hyperpolarized(1-13C)Pyruvate


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

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: 2017 › 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 dDNp 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 $^{13}$C 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 xenographs: 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

Single-Shot-RARE for rapid 3D hyperpolarized metabolic ex vivo tissue imaging: RF-pulse design for semi-dense spectra
Magnusson, P. O., Jensen, P. R., Dyrby, T. B., Karlsson, M., Lerche, M. H. & Hanson, L. G., 2016.
Research output: Contribution to conference › Poster – 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

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
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