List Of 2014 Reports

ID#	Title, First Author, and Category	Status
231	**Title:** Cyclotron Resonance above the Quantum Limit in the Double and Multiple Quantum Wells Structures **First Author:** Zybert, M. Z., University of Rzeszow, zybert.marcin@gmail.com **PI:** Zybert, M. Z., University of Rzeszow, zybert.marcin@gmail.com **Category:** Magnetic Resonance Technique Development **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Editing
162	**Title:** Coherency Dependent Thermal Stability In Nanotwinned (NT) Cu **First Author:** Niu, RN, National High Magnetic Field Laboratory, rniu@magnet.fsu.edu **PI:** Han, KH, National High Magnetic Field Laboratory, han@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** MS & T **UCGP:** Yes **VSP:** No **Published in** Appl. Phys. Lett. 104/1/011913 **Sign. Achievement:** No **Director's Recommendation:** Yes, definitely **Director's Comments:** The thermal stability of nanotwinned Cu is a hot topic in nanostructure material research	Editing
18	**Title:** Entropy as a Measure of Non-Gaussian Diffusion in Fixed Rat Brain Tissues **First Author:** Magin, RL, University of Illinois at Chicago, Bioengineering, rmagin@uic.edu **PI:** Magin, RL, University of Illinois at Chicago, Bioengineering, rmagin@uic.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** Magnet. Reson. Med. 70(2): 617-627, 2014 **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** Was featured as a monthly highlight in 2014. Cover of MRM.	Editing
124	**Title:** Reduction of Low-Frequency Temporal Field Fluctuations in Powered Magnets **First Author:** Thomson, BF, Penn State University, Electrical Engineering, bmcpheron@rwu.edu **PI:** Brey, WW, Florida State University, NHMFL, wbrey@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Editing
125	**Title:** Accommodation of Pulsed Field Gradients with Field Regulation in Powered Magnets **First Author:** McPheron, BD, Penn State University, Electrical Engineering, bmcpheron@rwu.edu **PI:** Brey, WW, Florida State University, NHMFL, wbrey@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Editing
132	**Title:** Hyperpolarization of Small Metabolites without Glassing Agent for Dissolution DNP at 5 T and <1.2 K **First Author:** Lama, B., University of Florida, Biochemistry and Molecular Biology, bimalalama@ufl.edu **PI:** Long, J. R., University of Florida, Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** No **Director's Comments:** None	Editing
171	**Title:** A Method for Dynamic Nuclear Polarization Magic Angle Spinning NMR of Membrane Proteins **First Author:** Smith, ANS, University of Florida, Chemistry, adams@ufl.edu **PI:** Long, JRL, University of Florida, Biochemistry & Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Accepted by** Angew. Chem. Int. Ed. **Sign. Achievement:** Yes **Director's Recommendation:** No **Director's Comments:** None	Editing
	Title: Development of a 13C Volume Coil for Ultra-High Field Metabolic Imaging Via Dissolution Dynamic	

205	Nuclear Polarization **First Author:** Cheng, T., Swiss Federal Institute of Technology, Department of Basic Science, tian.cheng@epfl.ch **PI:** Comment, A., Swiss Federal Institute of Technology, Department of Basic Science, arnaud.comment@epfl.ch **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** Yes **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
241	**Title:** 39K MRI of Rat Brain at 21.1 Tesla **First Author:** Nagel, AM, German Cancer Research Center (DKFZ), a.nagel@dkfz.de **PI:** Nagel, AM, German Cancer Research Center (DKFZ), a.nagel@dkfz.de **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
257	**Title:** Double-Resonance HTS Coils toward Dual-Optimized High-Sensitivity NMR Probes **First Author:** Ramaswamy, V, University of Florida, Biomedical Engineering, ramaswamy@magnet.fsu.edu **PI:** Brey, W.W., Florida State University, National High Magnetic Field Laboratory, wbrey@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
258	**Title:** An Empirical Expression to Predict the Resonant Frequencies of Archimedean Spirals **First Author:** Hooker, JW, Florida State University, NHMFL, hooker@magnet.fsu.edu **PI:** Brey, WW, Florida State University, NHMFL, wbrey@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** Yes **VSP:** No **Submitted to** IEEE Microwave Theory and Techniques **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
263	**Title:** Magic Angle Spinning Dynamic Nuclear Polarization instrument **First Author:** Dubroca, T, National High Magnetic Field Laboratory, EMR, dubroca@magnet.fsu.edu **PI:** Cross, T, National High Magnetic Field Laboratory, NMR, cross@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
273	**Title:** Overhauser Dynamic Nuclear Polarization Instrument Development **First Author:** Dubroca, T., National High Magnetic Field Laboratory, EMR, dubroca@magnet.fsu.edu **PI:** Hill, S, National High Magnetic Field Laboratory, EMR, shill@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
314	**Title:** Magnetic Resonance Imaging of PLA-PEG Drug Delivery Systems **First Author:** Alvares, R.D.A, University of Toronto, Chemistry, rohan.alvares@mail.utoronto.ca **PI:** Prosser, R.S., University of Toronto, Chemistry, scott.prosser@utoronto.ca **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
	Title: Augmented Tune/Match Circuits for High Performance Dual Nuclear Transmission Line Resonators **First Author:** Erickson, M. G., VA, gyromagnetic1@yahoo.com **PI:** Erickson, M. G., VA, gyromagnetic1@yahoo.com **Category:** Magnetic Resonance Technique Development	

428	**Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
462	**Title:** Development of High-Frequency Millimeter Wave Techniques for Pulsed Fields **First Author:** Beedle, C, NHMFL-PFF, beedle@lanl.gov **PI:** Singleton, John, NHMFL-PFF, jsingle@lanl.gov **Category:** Magnetic Resonance Technique Development **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
464	**Title:** Development of Diffusion-weighed MRI to Study Structural Changes in the Brain Stem following Mild Traumatic Brain Injury **First Author:** Colon-Perez, L. M., University of Florida, Dept. of Biochemistry and Molecular Biology, lcolon@ufl.edu **PI:** Mareci, T. H., University of Florida, Dept. of Biochemistry and Molecular Biology, thmareci@ufl.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
465	**Title:** Phase Contrast MRI with Reduced Eddy Current Distortion **First Author:** Magdoom, K. N., University of Florida, Dept. of Mechanical and Aerospace Engineering, mkulam@ufl.edu **PI:** Mareci, T. H., University of Florida, Dept, of Biochemistry and Molecular Biology, thmareci@ufl.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
477	**Title:** Calculated Magnetic Field Produced by Low-Amplitude Electric Current Injection into a Hydrogel Using Magnetic Resonance Electrical Impedance Tomography (MREIT) **First Author:** Kasinadhuni , A. K., University of Florida, Dept. of BIomedical Engineering, ak.kasinadhuni@ufl.edu **PI:** Mareci, T., University of Florida, Dept. of BIochemistry and Molecular BIology, thmareci@ufl.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
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