List Of 2013 Reports

ID#	Title, First Author, and Category	Status
32	**Title:** In situ Studies of Lithium Ion Batteries using Stray Field Imaging **First Author:** Tang, J., University of Toronto, joel.tang@utoronto.ca **PI:** Fu, R., NHMFL, rfu@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** Yes **VSP:** No **Published in** Scientific Reports 3/2596 **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
333	**Title:** ^{13}C-optimized 1.5-mm NMR Probe Based on High Temperature Superconductors **First Author:** Ramaswamy, V., University of Florida, Biomedical Engineering, r.vijaykumar@ufl.edu **PI:** Edison, A.S., University of Florida, Biochemistry and Molecular Biology, aedison@ufl.edu **Category:** Magnetic Resonance Technique Development **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** J. Magn. Reson. 235, pp. 58-65 **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
352	**Title:** Identifying Inter-Residue Resonances in Crowded 2D ^{13}C-^{13}C Chemical Shift Correlation Spectra of Membrane Proteins by Solid-State MAS NMR Difference Spectroscopy **First Author:** Miao, Y., Chemistry Department, Florida State University, miao@magnet.fsu.edu **PI:** Fu, R., NHMFL, rfu@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** J. Biomol. NMR 56/256-273 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
355	**Title:** Development and Implementation of the State-of-the-Art Solid-State NMR Pulse Techniques 1) at Ultrahigh Magnetic Fields and 2) for Utilizing ^{14}N Overtone Transition **First Author:** Wi, S., NHMFL, sungsool@magnet.fsu.edu **PI:** Wi, S., NHMFL, sungsool@magnet.fsu.edu **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	Edited
359	**Title:** Dynamic Nuclear Polarization Effort **First Author:** Dubroca, T., NHMFL, EMR, dubroca@magnet.fsu.edu **PI:** Hill, S., FSU, Physics, 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	Edited
403	**Title:** Augmented Tune/Match Circuits for High Performance Dual Nuclear Transmission Line Resonators **First Author:** Erickson, M., VA Hospital, gyromagnetic1@yahoo.com **PI:** Erickson, M., VA Hospital, gyromagnetic1@yahoo.com **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
408	**Title:** Pulsed NMR Work at NHMFL PFF **First Author:** Rickel, D.G., Los Alamos National Laboratory, Pulsed FIeld Facility, drickel@lanl.gov **PI:** Rickel, D.G., Los Alamos National Laboratory, Pulsed FIeld Facility, drickel@lanl.gov **Category:** Magnetic Resonance Technique Development **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No**	Edited

	Director's Comments: None	
97	**Title:** Laserspray and Matrix-Assisted Ionization Inlet Coupled to High-Field FT-ICR Mass Spectrometry for Peptide and Protein Analysis **First Author:** Nyadong, L., NHMFL, ICR, Leonard.nyadong@p66.com **PI:** Marshall, A.G., NHMFL/FSU, ICR, marshall@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** J. Am. Soc. Mass Spectr. 24, 320-328 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
225	**Title:** Fast REDOR with CPMG Multiple-Echo Acquisition **First Author:** Hung, I., NHMFL, hung@magnet.fsu.edu **PI:** Gan, Z., NHMFL, gan@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** J. Magn. Reson. 238/82-86 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
255	**Title:** Towards the Direct in vivo Detection of Proteins, Macromolecules, and Drug Delivery Systems by 13C-edited 1H MRI and MRIS **First Author:** Alvares, R., University of Toronto, Chemistry, rohan.alvares@utoronto.ca **PI:** Prosser, R.S., Univ of Toronto, Chemistry, Biochemistry, 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	Edited
261	**Title:** Development of MRI Sequences Optimized for Use with Dissolution DNP **First Author:** Collins, J.H.P., University of Florida, Biochemistry and Molecular Biology, jhpcollins@ufl.edu **PI:** Long, J., 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:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
263	**Title:** In vivo MR Imaging of Chloride and Sodium in Rat Brain at 21.1 T **First Author:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **PI:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **Category:** Magnetic Resonance Technique Development **Facility:** NMR Facility **UCGP:** No **VSP:** No **Accepted by** Magnetic Resonance Materials in Physics, Biology and Medicine (MAGMA) **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
266	**Title:** Predicting the Behavior of Planar Spiral Coils for Superconductive NMR Probes **First Author:** Hooker, J.W., FSU, hooker@magnet.fsu.edu **PI:** Brey, W.W., FSU, wbrey@magnet.fsu.edu **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	Edited
270	**Title:** Study of DNP Polarization of Acetate and Butyrate at 1.11 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:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Design of an MR Probe for In Vivo Studies in a 17.6 T, 89 mm Vertical Magnet	

277	**First Author:** Mareci, T.H., University of Florida, Biochemistry and Molecular Biology, thmareci@ufl.edu **PI:** Mareci, T.H., University of Florida, Biochemistry and Molecular Biology, thmareci@ufl.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	Edited
279	**Title:** Measurement of Point Infusion Fluid Flow in Hydrogel Using Phase Contrast MRI **First Author:** Magdoom, K.N., University of Florida, Mechanical & Aerospace Engineering, mkulam@ufl.edu **PI:** Mareci, T.H., University of Florida, Biochemistry & 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	Edited
286	**Title:** Mapping Phase Changes in MR Signal Due to Current Injection into Hydrogel Phantoms **First Author:** Kasinadhuni, A.K.K., University of Florida, Biomedical Engineering, adityakumar.bme@gmail.com **PI:** Mareci, T.H.M., University of Florida, Biochemistry, 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	Edited
287	**Title:** Quantitative Susceptibility Mapping Using MRI Phase Image **First Author:** Banan, G.B., University of Florida, Physics, banan@phys.ufl.edu **PI:** Mareci, T.H.M., University of Florida, 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	Edited
288	**Title:** Development of a Dissolution DNP Instrument: For Applications and Technique Development **First Author:** Smith, A.N.S., University of Florida, Chemistry, adams@ufl.edu **PI:** Long, J.R.L., University of Florida, Biochemistry & Molecular Biology, jrlong@mbi.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	Edited
289	**Title:** Characterizing DNP Mechanisms at High Magnetic Fields to Enable Membrane Protein NMR Studies **First Author:** Smith, A.N.S., University of Florida, Chemistry, adams@ufl.edu **PI:** Long, J.R.L., University of Florida, Biochemistry & Molecular Biology, jrlong@mbi.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	Edited
Total Reports: 20		