List Of 2016 Reports

ID#	Title, First Author, and Category	Status
23	**Title:** Enhancement of 13C Dynamic Nuclear Polarization by Reduction of Electron Spin-Lattice Relaxation Time Using Ho(III)-DOTA **First Author:** Kiswandhi, A, University of Texas at Dallas, Physics, andhika.kiswandhi@utdallas.edu **PI:** Lumata, L, University of Texas at Dallas, Physics, lloyd.lumata@utdallas.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 3.35 T **UCGP:** No **VSP:** No **Published in** Phys. Chem. Chem. Phys. 18, 21351-21359 (2016) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
39	**Title:** Probing Hydronium Ion Histidine NH Exchange Rate Constants in the M2 Channel via Indirect Observation of Dipolar-Dephased 15N Signals in Solid-State MAS NMR **First Author:** Fu, R., NHMFL, rfu@magnet.fsu.edu **PI:** Fu, R., NHMFL, rfu@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 18.7 T **UCGP:** No **VSP:** No **Accepted by** J. Am. Chem. Soc. **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
62	**Title:** Influence of Dy3+ and Tb3+ Doping on 13C Dynamic Nuclear Polarization **First Author:** Niedbalski, P, University of Texas at Dallas, Physics, peter.niedbalski@utdallas.edu **PI:** Lumata, L, University of Texas at Dallas, Physics, lloyd.lumata@utdallas.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 3.35 T **UCGP:** No **VSP:** No **Submitted to** J. Chem. Phys. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
65	**Title:** In situ magnetic resonance imaging of solid-state lithium-ion batteries **First Author:** Tang, T M, FSU, Chemistry, tangmx11@gmail.com **PI:** Hu, H Y-Y, FSU. Chemsitry and NHMFL, hu@chem.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
68	**Title:** In-Situ Monitoring of Structural and Phase Evolution During the Synthesis of Li7La3Zr2O12 with Ultrahigh-Temperature 7Li MAS NMR **First Author:** Chien, C P H, FSU, Chemistry, onizgaex@gmail.com **PI:** Hu, H Y Y, FSU, Chemistry & NHMFL, hu@chem.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 11.7 T **UCGP: Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
77	**Title:** Establishing Interspin Correlations in NMR of Membrane Proteins Reconstituted in Magnetically Aligned Bicelles **First Author:** Koroloff, S.N., North Carolina State University, Chemistry, snkorolo@ncsu.edu **PI:** Nevzorov, A.A., North Carolina State University, Chemistry, alex_nevzorov@ncsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Accepted by** J. Magn. Reson. **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited

105	**Title:** Measurement of Amide Proton Chemical Shift Anisotropy in Perdeuterated Proteins Using CSA Amplification **First Author:** Ge, Y, WIPM and NHMFL, geyuwei88@126.com **PI:** Gan, Z, NHMFL, gan@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 18.8 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
108	**Title:** Field-Frequency Lock for High-Resolution NMR at the 36 T SCH **First Author:** Hung, I, NHMFL, hung@magnet.fsu.edu **PI:** Gan, Z, NHMFL, gan@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 14.1 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
190	**Title:** TQTPPI Spectroscopy of 23Na+, 35Cl- and 39K+ of at 21.1 T **First Author:** Neubauer, A, Heidelberg University, Germany, Computer Assisted Clinical Medicine, andreas.neubauer@medma.uni-heidelberg.de **PI:** Schepkin, VD, NHMFL/FSU, CIMAR, schepkin@manget.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
262	**Title:** Towards More Efficient Magic Angle Spinning – Dynamic Nuclear Polarization at 14 T **First Author:** Mentink-Vigier, F, NHMFL, CIMAR, fmentink@magnet.fsu.edu **PI:** Mentink-Vigier, F, NHMFL, CIMAR, fmentink@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 14 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
292	**Title:** Augmented Tune/Match Circuits for High Performance Dual Nuclear Transmission Line Resonators **First Author:** Erickson, MG, AMRIS U of Florida, gyromagnetic1@yahoo.com **PI:** Erickson, MG, AMRIS U of Florida, gyromagnetic1@yahoo.com **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 4 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
354	**Title:** Development of Pulsed Dynamic Nuclear Polarization at High Magnetic Fields **First Author:** Can, T.V., MIT, Chemistry, thachcan@mit.edu **PI:** Griffin, R.G., MIT, Chemistry, rgg@mit.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 3.35 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
377	**Title:** Molecular Rationale for Efficient DNP of Biomembranes with Spin Labelled Lipids **First Author:** Smith, ANS, University of Florida, Department of Biochemistry & Molecular Biology, adam.smith@cea.fr **PI:** Long, JRL, University of Florida, Department of Biochemistry & Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 14.1 T	Edited

	UCGP: No **VSP:** No **Published in** J. Phys. Chem. B 120 (32) 7880-7888 **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	
386	**Title:** Diffusional Dynamics for Optimizing Overhauser DNP at High Magnetic Fields **First Author:** Akinfaderin, A, National High Magnetic Field Laboratory/ Florida State University, Department of Physics, aaa12g@my.fsu.edu **PI:** Hill, S.O, National High Magnetic Field Laboratory, shill@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 14 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
438	**Title:** Electron Relaxation Studies on Gadolinium-Based Fullerenes to Investigate Their Effects on Dissolution-DNP Efficiency **First Author:** Wang, X., NHMFL, xiaoling.wang@magnet.fsu.edu **PI:** Dorn, H., Virginia Tech, Chemistry, hdorn@vt.edu **Category:** Magnet Resonance Technique and Development **Facility:** EMR Facility **Highest Measured Field:** 8.5 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
446	**Title:** Study of Proton Hyperpolarization Mechanisms Using Different Radicals at Low Temperature **First Author:** Lama, B, University of Florida, Department of Biochemistry and Molecular Biology, bimalalama@ufl.edu **PI:** Long, J, University of Florida, Department of Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 5 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
448	**Title:** Study of Effect of Cations on 13C Hyperpolarization at 5 T and <1.2 K **First Author:** Lama, B, University of Florida, Department of Biochemistry and Molecular Biology, bimalalama@ufl.edu **PI:** Long, J, University of Florida, Department of Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 5 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
449	**Title:** Expeditious Dissolution Dynamic Nuclear Polarization without Glassing Agents **First Author:** Lama, Lama, University of Florida, Department of Biochemistry and Molecular Biology, bimalalama@ufl.edu **PI:** Long, J, University of Florida, Department of Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 5 T **UCGP:** No **VSP:** No **Published in** NMR Biomedicine 11, 6892-6905 **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** published in good journal	Edited
450	**Title:** The Effect of Deuteration and Gd3+ Doping on 13C DNP at 5 T **First Author:** Lama, Lama, University of Florida, Department of Biochemistry and Molecular Biology, bimalalama@ufl.edu **PI:** Lumata, L, University of Texas Dallas, Department of Physics, lloyd.lumata@utdallas.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 5 T **UCGP:** No **VSP:** No **Published in** RSC Advances 15, 7032-7035 **Sign. Achievement:** No	Edited

	Director's Recommendation: No **Director's Comments:** None	
460	**Title:** Localized 13C in-vivo Spectroscopy and DNP **First Author:** Collins, JHP, UF, Biochemistry and Molecular Biology, jhpcollins@ufl.edu **PI:** Long, J, UF, Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 3 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
477	**Title:** Electromagnetic Resonances of Spiral Resonators **First Author:** Ramaswamy, V., FSU, NHMFL, rvijaykumar87@gmail.com **PI:** Brey, W.W., FSU, NHMFL, wbrey@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 0 T **UCGP: Yes** **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
478	**Title:** NMR Probes for the Series Hybrid **First Author:** Gor'kov, PL, FSU, NHMFL, pgorkov@magnet.fsu.edu **PI:** Brey, WW, FSU, NHMFL, wbrey@magnet.fsu.edu **Category:** Magnet Resonance Technique and Development **Facility:** NMR Facility **Highest Measured Field:** 14.1 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** None	Edited
483	**Title:** SNR Optimal Flow Imaging **First Author:** Magdoom, K.N., University of Florida, mkulam@ufl.edu **PI:** Mareci, T.H., University of Florida, thmareci@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
484	**Title:** Characterizing Diffusion Weighted Images Using Clustering Analysis of Spherical Harmonics (CASH) **First Author:** Amin, MA, University of Florida, Physics, manishamin@ufl.edu **PI:** Mareci, THM, University of Florida, Biochemistry and Molecular Biology; Physics, thmareci@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 3 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
489	**Title:** First Annual Radio Frequency Coil Building Workshop **First Author:** Elumalai, M, University of Florida, malathy@ufl.edu **PI:** Long, J, University of Florida, jrlong@mbi.ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 0 T **UCGP:** No **VSP: Yes** **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
491	**Title:** Measuring Temporal Stability of the Static Magnetic Field in MRI for MREIT **First Author:** Kasinadhuni, AK, University of Florida, Biomedical engineering, adityakumar.bme@gmail.com **PI:** Mareci, TH, University of Florida, Biochemistry, thmareci@ufl.edu **Category:** Magnet Resonance Technique and Development **Facility:** MBI-UF AMRIS **Highest Measured Field:** 4.7 T	Edited

UCGP: No **VSP:** No **Publication Status:** Not at this time
Sign. Achievement: No
Director's Recommendation: No
Director's Comments: None

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