List Of 2013 Reports

ID#	Title, First Author, and Category	Status
219	**Title:** Self-Diffusion of Ethane and Ethylene in Carbon Molecular Sieve Membranes by Pulsed Field Gradient NMR **First Author:** Mueller, R., University of Florida, Chemical Engineering, silveram@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering, svasenkov@che.ufl.edu **Category:** Engineering Materials **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** Microporous and Mesoporous Materials 181, 228-232 (2013). **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
220	**Title:** Carbon Dioxide Transport in a Samaria Aerogel Catalyst by High Field Diffusion NMR **First Author:** Mueller, R., University of Florida, Chemical Engineering, silveram@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering, svasenkov@che.ufl.edu **Category:** Engineering Materials **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** J. Chem. Phys. 139, 154703 (2013) **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
329	**Title:** Engineering Theranostic Nanovehicles to Target Cerebrovascular Amyloid Deposits **First Author:** Agyare, E.K., Florida A&M University, Basic Pharmaceutical Sciences, edward.agyare@famu.edu **PI:** Kandimalla, K.K., Pharmacuetics, University of Minnesota, kandimalla2010@gmail.com **Category:** Engineering Materials **Facility:** NMR Facility **UCGP: Yes** **VSP:** No **Submitted to** Journal of Controlled Release **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
330	**Title:** Giant Faraday Effect and Enhanced Transmission in Cobalt-Dielectric Photonic Strustures **First Author:** Chabanov, A A., University of Texas at San Antonio, Physics, andrey.chabanov@utsa.edu **PI:** Chabanov, A.A., University of Texas at San Antonio, Physics, andrey.chabanov@utsa.edu **Category:** Engineering Materials **Facility:** CMT/E **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
341	**Title:** Unraveling the Phase Transitions Of A Room Temperature Magneto-Dielectric Hybrid Framework Material: $(C_2H_5)_3CH_3FeBr_4$ **First Author:** Jain, P., Los Alamos National Laboratory, pjain.iitm@gmail.com **PI:** Zapf, V., Los Alamos National Laboratory, vzapf@lanl.gov **Category:** Engineering Materials **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	Edited
356	**Title:** Investigation of Dynamics-Transport Correlations in Polymeric Membranes of Fuel Cell and Reverse Osmosis Applications **First Author:** Wi, S., NHMFL, sungsool@magnet.fsu.edu **PI:** Wi, S., NHMFL, sungsool@magnet.fsu.edu **Category:** Engineering Materials **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
357	**Title:** Confirmation of Polybenzoxazole Structure in Thermally Rearranged Polymers by Cross-Polarization/Magic Angle Spinning Solid State ^{13}C NMR **First Author:** Wi, S., NMHFL, sungsool@magnet.fsu.edu **PI:** Freeman, B., The University of Texas at Austin, McKetta Department of Chemical Engineering, freeman@che.utexas.edu **Category:** Engineering Materials	Edited

	Facility: NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
38	**Title:** Diffusion and Chemical Exchange in Mixtures of Carbon Dioxide and an Amine-Functionalized Ionic Liquid by High Field NMR **First Author:** Hazelbaker , E., University of Florida, Chemical Engineering, eric.hazelbaker@gmail.com **PI:** Maginn, E.J., University of Notre Dame, Chem. Biomol. Eng., ed@nd.edu **Category:** Engineering Materials **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
81	**Title:** In Situ High Temperature MAS NMR Characterization of a Titanosilicate UPRM-5 Prepared Using Tetrapropylammonium and Tetrabutylammonium Cations **First Author:** Fu, R., National High Magnetic Field Laboratory, rfu@magnet.fsu.edu **PI:** Hernandez-Maldonado, A.J., University of Puerto Rico at Mayaguez, Chemical Engineering, arturoj.hernandez@upr.edu **Category:** Engineering Materials **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
82	**Title:** Local Range Changes in a (LiCl)[Zn(bdc)(ted)$_{0.5}$] Metal Organic Framework Upon Adsorption of $CO_{0.5}$ Studied Via ^{13}C MAS NMR **First Author:** Fu, R., National Hight Magnetic Field Laboratory, rfu@magnet.fsu.edu **PI:** Hernandez-Maldonado, A.J., University of Puerto Rico at Mayaguez, Chemical Engineering, arturoj.hernandez@upr.edu **Category:** Engineering Materials **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
115	**Title:** Cryogenic Magnetoresistance of CuAg Alloy Solidified Under a 12 T High Magnetic Field **First Author:** Zuo, X.W., Northeastern University, PR China and NHMFL, MS&T, zxwneu@gmail.com **PI:** Han, K., NHMFL, FSU, MS&T, han@magnet.fsu.edu **Category:** Engineering Materials **Facility:** DC Field Facility **UCGP:** No **VSP: Yes** **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
145	**Title:** Heat Treatment on Properties of Cu-Fe High Strength Conductors **First Author:** Han, K., National High Magnetic Field Laboratory, han@magnet.fsu.edu **PI:** Han, K., National High Magnetic Field Laboratory, han@magnet.fsu.edu **Category:** Engineering Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Published in** J. Appl. Phys. 173708, (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
153	**Title:** Atomic-Scale Studies on The Effect of Boundary Coherency on Stability in Twinned Cu **First Author:** Niu, R., NHMFL, rniu@magnet.fsu.edu **PI:** Han, K., NHMFL, han@magnet.fsu.edu **Category:** Engineering Materials **Facility:** MS & T **UCGP: Yes** **VSP:** No **Accepted by** Appl. Phys. Lett. in press **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Acoustic Characterization of Magnetorheological Fluids **First Author:** Howarth, T.R., NAVSEA Division Newport, thomas.howarth@navy.mil **PI:** Howarth, T.R., NAVSEA Division Newport, thomas.howarth@navy.mil **Category:** Engineering Materials	

175	**Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
182	**Title:** Fatigue and Fracture Properties of a Super-Austenitic Stainless Steel at 295 K and 4 K **First Author:** McRae, D.M., NHMFL, Florida State University, Magnet Science & Technology, dmcrae@magnet.fsu.edu **PI:** Walsh, R.P., NHMFL, Florida State University, Magnet Science & Technology, walsh@magnet.fsu.edu **Category:** Engineering Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Accepted by** Adv. Cryog. Eng. Materials Volume 60 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
218	**Title:** Texture Evolution of Cu–Nb Composite Wires by EBSD **First Author:** Deng, L., Chongqing University, China; Mag Lab, MST, ldeng@magnet.fsu.edu **PI:** Han, K., Mag Lab, MST, han@magnet.fsu.edu **Category:** Engineering Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Published in** Materials Characterization 81: 124-133 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
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