List Of 2013 Reports

ID#	Title, First Author, and Category	Status
4	**Title:** Expansion of the Analytical Window for Oil Spill Characterization by Ultrahigh Resolution Mass Spectrometry: Beyond Gas Chromatography **First Author:** McKenna, A.M., NHMFL, Ion Cyclotron Resonance, mckenna@magnet.fsu.edu **PI:** McKenna, A.M., NHMFL, Ion Cyclotron Resonance, mckenna@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Environ. Sci. Technol. 47 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Edited
52	**Title:** High-Frequency and -Field EPR of a Co(II)-Y(III) Single-Molecule Magnet with Positive Axial Zero-Field Splitting **First Author:** Colacio, E., U. Granada, Spain, ecolacio@ugr.es **PI:** Colacio, E., U. Granada, Spain, ecolacio@ugr.es **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Published in** Angew. Chem. Int. Ed. 52, 9130-9134 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Edited
83	**Title:** High-Frequency and -Field EPR Experiments on a Mononuclear Single-Molecule Magnet Based on a Manganese(III) Complex **First Author:** Vallejo, J., U. Valencia, Spain, Inorg. Chem., julia.vallejo@uv.es **PI:** Cano, J., U. Valencia, Spain, Inorg. Chem., joan.cano@uv.es **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Accepted by** Angew. Chem. Int. Ed. DOI: 10.1002/anie.201308047 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Edited
92	**Title:** Heavy Petroleum Composition 3. Asphaltene Aggregation **First Author:** McKenna, A.M., NHMFL, ICR Program, mckenna@magnet.fsu.edu **PI:** Rodgers, R.P., NHMFL, ICR Program, rodgers@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Energy & Fuels 27, 1246-1256 (2013) **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Edited
120	**Title:** HFEPR of a Manganese(V) Nitrido Complex with a Novel Tripodal Carbene Ligand **First Author:** Kropp, H., Friedrich-Alexander University of Erlangen - Nuremberg, Chemistry & Pharmacy, Henning.Kropp@chemie.uni-erlangen.de] **PI:** Telser, J., Roosevelt University, Biological, Chemical and Physical Sciences, jtelser@roosevelt.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Edited
469	**Title:** Binding of MgtR, a Salmonella Transmembrane Regulatory Peptide, to MgtC, a Mycobacterium Tuberculosis Virulence Factor: A Structural Study **First Author:** Jean-Francois, F.L., NHMFL, jean-francois@magnet.fsu.edu **PI:** Cross, T.A., NHMFL, cross@magnet.fsu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** J. Mol. Biol. 426:416-446 **Sign. Achievement:** No **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Edited
	Title: Mössbauer Spectroscopic Observation of a Very Large Internal Hyperfine Field in Bis(2,2,6,6-tetramethylpiperidido)iron(II) **First Author:** Davis, L.M., University of Illinois at Urbana-Champaign, Chemistry, davis71@illinois.edu **PI:** Girolami, G.S., University of Illinois at Urbana-Champaign, Chemistry, girolami@scs.illinois.edu **Category:** Chemistry	

275	**Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
280	**Title:** Magnetic Field-Induced Shift of the Optical Band Gap in $Ni_3V_2O_8$ **First Author:** Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu **PI:** Musfeldt, J.L., University of Tennessee, Chemistry, musfeldt@utk.edu **Category:** Chemistry **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. Lett. **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
302	**Title:** Ligand Design for Molecular and Supramolecular Control of the Structures of Metal Complexes: Investigations of Unusual Magnetic and EPR Properties+ **First Author:** Reger, D.L., University of South Carolina, Chemistry, reger@mailbox.sc.edu **PI:** Reger, D.L., University of South Carolina, Chemistry, reger@mailbox.sc.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Submitted to** Inorg. Chem. **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
350	**Title:** Quantitative Analysis of Metabolic Mixtures by Two-Dimensional ^{13}C Constant-Time TOCSY NMR Spectroscopy **First Author:** Bingol, K., NHMFL, FSU, fzhang@magnet.fsu.edu **PI:** Brüschweiler, R., OSU, bruschweiler.1@osu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** Anal. Chem. **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
392	**Title:** High-Field EPR Studies on a Novel Ferromagnetic Nickel(II) Cubane Complex **First Author:** Reger, D.L., University of South Carolina, Columbia, Chemistry, reger@mailbox.sc.edu **PI:** Reger, D.L., University of South Carolina, Columbia, Chemistry, reger@mailbox.sc.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Submitted to** Inorg. Chem. **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
121	**Title:** HFEPR of a Long-Ignored High-Spin Metallocene: Chromocenium **First Author:** Liang, A., U. of Pennsylvania, Chemistry, aliang@sas.upenn.edu **PI:** Telser, J., Roosevelt University, Biological, Chemical and Physical Sciences, jtelser@roosevelt.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
244	**Title:** Potent Elastase Inhibitors from Cyanobacteria: Structural Basis and Mechanisms Mediating Cytoprotective and Anti-Inflammatory Effects in Bronchial Epithelial Cells **First Author:** Salvador, L.A., University of Florida, Medicinal Chemistry, lasalvador@ufl.edu **PI:** Luesch, H., University of Florida, Medicinal Chemistry, luesch@cop.ufl.edu **Category:** Chemistry **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** J. Med. Chem. 56, 1276-1290 **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
	Title: HF EPR and Magnetic Studies on an Octanuclear Copper Complex with C_{3i} Symmetry and Paramagnetic Ground State **First Author:** Nesterov, D.S., Technical University of Lisbon, Centro de Química Estrutural, dmytro.nesterov@ist.utl.pt **PI:** Pombeiro, A.J.L, Technical University of Lisbon, Centro de Química Estrutural, pombeiro@ist.utl.pt	

257	**Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Submitted to** Chemical Communications **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
55	**Title:** Solid-State ^{17}O NMR of Pharmaceutical Compounds: Salicylic Acid and Aspirin **First Author:** Kong, X., Queen's University, xianqi.kong@chem.queensu.ca **PI:** Wu, G., Queen's University, gang.wu@chem.queensu.ca **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** J. Phys. Chem. B **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
41	**Title:** Observation of Single-File Diffusion of Xe in One-Dimensional Nanochannels by Diffusion NMR **First Author:** Dvoyashkin, M., University of Florida, Chemistry, muslimd@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering, svasenkov@che.ufl.edu **Category:** Chemistry **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** J. Chem. Phys. Lett. 4, 3263–3267 (2013) **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
50	**Title:** Coordination Complexes for Spin-Based Quantum Computation **First Author:** Graham, M.J., Northwestern University, Chemistry, michaelgraham2012@u.northwestern.edu **PI:** Freedman, D.E., Northwestern University, Chemistry, danna.freedman@northwestern.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
53	**Title:** Unusually Large Zero-Field Splitting of Cr(III) Elucidated by High-Frequency Electron Paramagnetic Resonance (HF-EPR) **First Author:** Christian, J.H, FSU, Chemistry, jhc09@my.fsu.edu **PI:** Dalal, N.S., FSU, Chemistry, dalal@chem.fsu.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
7	**Title:** To Jump or Not Jump? Cα Hydrogen Atom Transfer in Post-Cleavage Radical-Cation Complexes **First Author:** Bythell, B.J., NHMFL, Ion Cyclotron Resonance, bythell@magnet.fsu.edu **PI:** Bythell, B.J., NHMFL, Ion Cyclotron Resonance, bythell@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** J. Phys. Chem. A 117, 1189-1196 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
9	**Title:** On the Size Distribution of Self-Associated Asphaltenes **First Author:** Yarranton, H.W., hyarrant@ucalgary.ca **PI:** Yarranton, H.W., hyarrant@ucalgary.ca **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Energy & Fuels 27/5083-5106 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
11	**Title:** Molecular-Level Characterization of Reactive and Refractory Dissolved Natural Organic Nitrogen Compounds by Atmospheric Pressure Photoionization Coupled to Fourier Transform Ion Cyclotron Resonance Mass Spectrometry **First Author:** Osborne, D.M., FSU, Chemistry, dosborne@chem.fsu.edu **PI:** Cooper, W.T., FSU, Chemistry, cooper@chem.fsu.edu **Category:** Chemistry **Facility:** ICR Facility	Edited

	UCGP: No **VSP:** No **Published in** Rapid Commun. Mass Sp. 27, 851-858 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
15	**Title:** Mass Resolution and Mass Accuracy: How Much is Enough? **First Author:** Marshall, A.G., NHMFL ICR Program, FSU Chemistry & Biochemistry, marshall@magnet.fsu.edu **PI:** Marshall, A.G., NHMFL ICR Program, FSU Chemistry & Biochemistry, marshall@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Mass Spectrometry 2, S0009 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
16	**Title:** Charge Reversal Fourier Transform Ion Cyclotron Resonance Mass Spectrometry **First Author:** Lobodin, V.V., NHMFL ICR Program, lobodin@magnet.fsu.edu **PI:** Marshall, A.G., NHMFL ICR Program, FSU Dept. of Chemistry & Biochemistry, marshall@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** J. Am. Soc. Mass Spectr. 24, 213-221 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
71	**Title:** High-Field EPR and Magnetic Studies on a Ferromagnetic Copper Nitrobenzoate Dimer **First Author:** Sharma, R.P., Chandigarh University, India,, Chemistry, rpsharma@pu.ac.in **PI:** Sharma, R.P., Chandigarh University, India,, Chemistry, rpsharma@pu.ac.in **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Published in** New Journal of Chemistry DOI: 10.1039/C3NJ00736G (2014) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
80	**Title:** Elemental Composition Validation from Stored Waveform Inverse Fourier Transform (SWIFT) Isolation FT-ICR MS Isotopic Fine Structure **First Author:** Ruddy, B.M., FSU, Chemistry & Biochemistry, brian.ruddy@taxon.com **PI:** Marshall, A.G., NHMFL, ICR Program, marshall@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** J. Am. Soc. Mass Spectr. 24, 1608-1611 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
90	**Title:** Artifacts Induced by Selective Blanking of Time-Domain Data in Fourier Transform Mass Spectrometry **First Author:** Xian, F., FSU, Chemistry, fxian@cpainman.org **PI:** Marshall, A.G., FSU/NHMFL, ICR Program, marshall@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** J. Am. Soc. Mass Spectr. 24, 1722-1726 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
91	**Title:** Electrospray Ionization FT-ICR MS Characterization of Tunable Carbohydrate-Based Materials for Sorption of Oil Sands Naphthenic Acids **First Author:** Headley, J.V., Environment Canada, Aquatic Ecosystem Protection Research Division, john.headley@ec.gc.ca **PI:** Headley, J.V., Environment Canada, Aquatic Ecosystem Protection Research Division, john.headley@ec.gc.ca **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Energy & Fuels 27, 1772-1778 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Heavy Petroleum Composition 4. Asphaltene Compositional Space **First Author:** McKenna, A.M., NHMFL, ICR Program, mckenna@magnet.fsu.edu **PI:** Rodgers, R.P., NHMFL, ICR Program, rodgers@magnet.fsu.edu	

93	**Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Energy & Fuels 27, 1257-126 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
98	**Title:** Metallofullerene and Fullerene Formation from Condensing Carbon Gas under Conditions of Stellar Outflows and Implication to Stardust **First Author:** Dunk, P.W., FSU, Chemistry & Biochemistry, dunk@magnet.fsu.edu **PI:** Kroto, H.W., FSU, Chemistry & Biochemistry, kroto@chem.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** P. Natl. Acad. Sci. U.S.A. 110 (45), 18081-18086 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
99	**Title:** Heavy Petroleum Composition 5: The Compositional and Structural Continuum of Petroleum Revealed **First Author:** Podgorski, D.C., FSU, Chemistry& Biochemistry, podgorski@magnet.fsu.edu **PI:** Rodgers, R.P., NHMFL/FSU, ICR, rodgers@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Energy & Fuels 27, 1268-1276 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
101	**Title:** Oil Spill Source Identification by Principal Component Analysis of Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectra **First Author:** Corilo, Y.E., NHMFL, ICR, corilo@magnet.fsu.edu **PI:** Rodgers, R.P., NHMFL/FSU, ICR, rodgers@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Anal. Chem. 85, 9064-9069 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
104	**Title:** Compositional Analysis of Oil Residues by Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry **First Author:** Kekäläinen, T., U. East Finland, Chemistry, janne.janis@uef.fi **PI:** Jänis, J., U. East Finland, Chemistry, janne.janis@uef.fi **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Energy & Fuels 27, 2002-2009 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
106	**Title:** First High-Field EPR Characterization of Tar Balls and Weathered Oils **First Author:** Ramachandran, V., NHMFL, ramachan@chem.fsu.edu **PI:** Dalal, N.S., NHMFL & FSU, Chemistry, dalal@chem.fsu.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
258	**Title:** Solid-State MAS NMR Characterization of Two Tripeptides **First Author:** Mehta, M.A., Oberlin College, Department of Chemistry and Biochemistry, mmehta@oberlin.edu **PI:** Mehta, M.A., Oberlin College, Department of Chemistry and Biochemistry, mmehta@oberlin.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: HF EPR Studies on New Metallosupramolecular Helicates **First Author:** Raja, M., Claflin University, Chemistry, Mraja@Claflin.edu **PI:** Raja, M., Claflin University, Chemistry, Mraja@Claflin.edu	

259	**Category:** Chemistry **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
265	**Title:** Single-Crystal Pressure HFEPR of Cobalt(II) Dimers **First Author:** McInnes, E.J.L., University of Manchester, Chemistry, eric.mcinnes@manchester.ac.uk **PI:** McInnes, E.J.L., University of Manchester, Chemistry, eric.mcinnes@manchester.ac.uk **Category:** Chemistry **Facility:** EMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
267	**Title:** Identification of Pheromones from Entomopathogenic Nematodes **First Author:** Singh, P., University of Florida, Chemistry, psingh007@chem.ufl.edu **PI:** Butcher, R.A., University of Florida, Chemistry, butcher@chem.ufl.edu **Category:** Chemistry **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
268	**Title:** Identification of Novel Pheromones from Caenorhabditis Elegans Using Comparative Metabolomics and Multi-dimensional NMR Spectroscopy **First Author:** Nunnery, J.K., University of Florida, Chemistry, joshawna.nunnery@csueastbay.edu **PI:** Butcher, R.A., University of Florida, Chemistry, butcher@chem.ufl.edu **Category:** Chemistry **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
271	**Title:** Lithium NMR for Li-Air Batteries **First Author:** Chandrashekar, S., nhmfl/fsu, chandrashekar@magnet.fsu.edu **PI:** Chandrashekar, S., nhmfl/fsu, chandrashekar@magnet.fsu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
248	**Title:** Structural Transformations in Amorphous <-> Crystalline Phase Change of GaSb **First Author:** Edwards, T.G., UC Davis, Dept. of Chemical Engineering and Materials Science, tgedwards@ucdavis.edu **PI:** Sen, S., UC Davis, Dept. of Chemical Engineering and Materials Science, sbsen@ucdavis.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Submitted to** J. Appl. Phys. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
249	**Title:** Quantitative Molecular Dynamics for Solid Cs_4WO and $KMnO_4$ from ^{17}O VT MAS NMR **First Author:** Jakobsen, H.J., Aarhus University, Chemistry, hja@chem.au.dk **PI:** Jakobsen, H.J., Aarhus University, Chemistry, hja@chem.au.dk **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
251	**Title:** Lithium NMR for Polymer Electrolyte Batteries **First Author:** Chandrashekar, S., nhmfl/fsu, cimar, chandrashekar@magnet.fsu.edu **PI:** Chandrashekar, S., nhmfl/fsu, cimar, chandrashekar@magnet.fsu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time	Edited

	Sign. Achievement: No **Director's Recommendation: No** **Director's Comments:** None	
254	**Title:** Structure and Magnetism of Triangular Copper(II) Hydroxo-Bridged Clusters **First Author:** Lysenko, A.B., Kiev University, Chemistry, ab_lysenko@univ.kiev.ua **PI:** Lysenko, A.B., Kiev University, Chemistry, ab_lysenko@univ.kiev.ua **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Submitted to** Inorg. Chem. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
140	**Title:** High Resolution Solid-State NMR Suggests a New Model of Protonic Conductivity in the Superionic Conductor LiH_2PO_4 : Critical Role of Physisorbed Water **First Author:** Kweon, K., National High Magnetic Field Laboratory, jjkweon@magnet.fsu.edu **PI:** Dalal, D., Florida State University, Chemistry and Biochemistry, dalal@chem.fsu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP: Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
142	**Title:** Magnetization Study of $Ni(HF_2)_2(H_2O)(3\text{-fluoropyridine})_3$ Single Crystals **First Author:** Manson, J.L., Eastern Washinton University, Chemistry and Biochemistry, jmanson@ewu.edu **PI:** Manson, J.L., Eastern Washinton University, Chemistry and Biochemistry, jmanson@ewu.edu **Category:** Chemistry **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
143	**Title:** Magnetization of an Unusual Cu(II) Chain Consisting of Alternating Dimers and Trimers **First Author:** Manson, J.L., Eastern Washinton University, Chemistry and Biochemistry, jmanson@ewu.edu **PI:** Manson, J.L., Eastern Washinton University, Chemistry and Biochemistry, jmanson@ewu.edu **Category:** Chemistry **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
144	**Title:** Pulsed-Field Magnetization of the Spin-1/2 Quantum Chain $[Cu(pyz)(3\text{-CNpyO})_2](ClO_4)_2$ **First Author:** Manson, J.L., Eastern Washinton University, Chemistry and Biochemistry, jmanson@ewu.edu **PI:** Manson, J.L., Eastern Washinton University, Chemistry and Biochemistry, jmanson@ewu.edu **Category:** Chemistry **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
166	**Title:** High Field EPR Study of Novel 3d-4f Heterobimetallics **First Author:** Diefenbach, K., Florida State University, Chemistry and Biochemistry, kariemdiefenbach@gmail.com **PI:** Albrecht-Schmitt, T., Florida State University, Chemistry and Biochemistry, albrecht-schmitt@chem.fsu.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Measuring $^{14}N/^{13}C$ Dipole Couplings to Establish Conformation in Unlabeled Materials **First Author:** Harper, J.K., University of Central Florida, Chemistry, James.Harper@ucf.edu **PI:** Harper, J.K., University of Central Florida, Chemistry, James.Harper@ucf.edu **Category:** Chemistry	

217	**Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
221	**Title:** Solid-State NMR Characterization of Two Tripeptides **First Author:** Mehta, M.A.M., Oberlin College, Chemistry and Biochemistry, manish.mehta@oberlin.edu **PI:** Long, J.R.L., University of Florida, Biochemistry, jrlong@MBI.UFL.EDU **Category:** Chemistry **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
222	**Title:** HFEPR Investigation of a $Mn^{III}O_6$-containing Complex Exhibiting Field-Induced Slow Magnetic Relaxation **First Author:** Grigoropoulos, A., University of Athens, Greece, Chemistry, kyritsis@chem.uoa.gr **PI:** Kyritsis, P., University of Athens, Greece, Chemistry, kyritsis@chem.uoa.gr **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP: Yes** **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
223	**Title:** Tetramethylammonium Hydroxide as a Reagent for Complex Mixture Analysis by Negative Ion Electrospray Ionization Mass Spectrometry **First Author:** Lobodin, V.V., FSU, Future Fuels Institute, lobodin@magnet.fsu.edu **PI:** Rodgers, R.P., NHMFL/FSU, ICR, rodgers@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Anal. Chem. 85, 7803-7808 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
224	**Title:** Formation of Heterofullerenes by Direct Exposure of C_{60} to Boron Vapor **First Author:** Dunk, P.W., FSU, Chemistry & Biochemistry, dunk@magnet.fsu.edu **PI:** Kroto, H.W., FSU, Chemistry &Biochemistry, kroto@\chem.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Angew. Chem. Int. Ed. 52, 315-319 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
228	**Title:** Structural and Some Medicinal Characteristics of the Copper(II)–Hydroxychloroquine Complex **First Author:** Manning, T.J., Valdosta State University, Chemistry, tmanning@valdosta.edu **PI:** Manning, T.J., Valdosta State University, Chemistry, tmanning@valdosta.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Bioorganic & Medicinal Chemistry Letters 23, 4453-4458 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
229	**Title:** Insights into Dissolved Organic Matter Complexity in Rainwater from Continental and Coastal Storms by Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry **First Author:** Mead, R.N., U. North Carolina Wilmington, Chemistry, podgorski@magnet.fsu.edu **PI:** Podgorski, D.C., FSU, Future Fuels Institute, podgorski@magnet.fsu.edu **Category:** Chemistry **Facility:** ICR Facility **UCGP:** No **VSP:** No **Published in** Atmos. Chem. Phys. 13, 4829-4838 (2013) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
243	**Title:** Modular Strategies for Structure and Function Employed by Marine Cyanobacteria: Characterization and Synthesis of Pitinoic Acids **First Author:** Montaser, R., University of Florida, Medicinal Chemistry, montaser@ufl.edu **PI:** Luesch, H., University of Florida, Medicinal Chemistry, luesch@cop.ufl.edu **Category:** Chemistry	Edited

	Facility: MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** Organic Letters 15, 4050 **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	
393	**Title:** EPR Studies of a Covalently Bonded Dimer of Triangular Mn_3 Single-Molecule Magnets **First Author:** Nguyen, T.N., UF, Chemistry, tunguyen@ufl.edu **PI:** Christou, G., UF, Chemistry, shill@magnet.fsiu.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
397	**Title:** High-Frequency and -Field EPR Study of the Magnetochemical Standard $HgCo(NCS)_4$ **First Author:** Krzystek, J., NHMFL, krzystek@magnet.fsu.edu **PI:** Boča, R., U. of SS. Cyril and Methodius, Chemistry, roman.boca@stuba.sk **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
402	**Title:** In-Situ Solid State NMR Study of Li-Ion Capacitor **First Author:** Shelliker, A., FSU, Electric Engineering, ahs07e@my.fsu.edu **PI:** Zheng, J., FSU, Electric Engineering, zheng@eng.fsu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
418	**Title:** Ferroelasticity in a Metal–Organic Framework Perovskite; Towards a New Class of Multiferroics **First Author:** Li, W., University of Cambridge, Materials Science, dearweili@gmail.com **PI:** Cheetham, A.K., University of Cambridge, Materials Science, akc30@cam.ac.uk **Category:** Chemistry **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Published in** Acta Mater. 61 (2013) 4928–4938 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
438	**Title:** Metabolomic Analyses of Associated Endophytic Fungi from Senna Spectabilis Using NMR and Computational Dereplication Models **First Author:** Freire, R.T., Sao Paulo State University-Araraquara-Brazil, Organic Chemistry, rafaeltfreire@hotmail.com **PI:** Edison, A.S., University of Florida, Molecular Biology and Biochemistry, arthur.edison@gmail.com **Category:** Chemistry **Facility:** MBI-UF AMRIS **UCGP:** No **VSP: Yes** **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
451	**Title:** A Multi-metallic Iron-Dinitrogen Complex, What is its Electronic Structure? **First Author:** Smythe, N., LANL, nsmythe@lanl.gov **PI:** Gordon, G., LANL, jgordon@lanl.gov **Category:** Chemistry **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
351	**Title:** Robust Protocol to Make Protein NMR Structures Amenable to Long MD Simulations **First Author:** LI, D., NHMFL, FSU, fzhang@magnet.fsu.edu **PI:** Brüschweiler, R., OSU, bruschweiler.1@osu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation	Edited

	Sign. Achievement: No **Director's Recommendation: No** **Director's Comments:** None	
368	**Title:** Spectroscopic Characterization of a Trinuclear, Oxo-Bridged Iron Cluster **First Author:** Chung, Y.J., Fu Jen Catholic University, Taiwan, Chemistry, 071549@mail.fju.edu.tw **PI:** Yang, E.-C., Fu Jen Catholic University, Taiwan, Chemsitry, 071549@mail.fju.edu.tw **Category:** Chemistry **Facility:** EMR Facility **UCGP: Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
376	**Title:** Solid-state 67Zn NMR Characterization of Zincosilicates (CIT-6) **First Author:** Wi, S., NHMFL, sungsool@magnet.fsu.edu **PI:** Davis, M., California Institute of Technology, Chemical Engineering, mdavis@cheme.caltech.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
309	**Title:** High Field EPR Study of a New Cu(II) Acetate Chain Complex **First Author:** Ramachandran, V., Florida State University, Chemistry and Biochemistry, ramachan@chem.fsu.edu **PI:** Zhu, L., Florida State University, Chemistry and Biochemistry, lzhu@chem.fsu.edu **Category:** Chemistry **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
310	**Title:** Field and Temperature-Dependent ESR Studies of Trityl OX063 at Optimum Concentration for Dynamic Nuclear Polarization **First Author:** Lumata, L.L., University of Texas Southwestern Medical Center, Advanced Imaging Research Center, lloyd.lumata@utsouthwestern.edu **PI:** Merritt, M.E., University of Texas Southwestern Medical Center, Advanced Imaging Research Center, matthew.merritt@utsouthwestern.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** No **VSP:** No **Published in** Phys. Chem. Chem. Phys. 15 9800-9807 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
325	**Title:** Structure Identification of Compounds Promising Anticancer and Antinematode Extracted From Chinese Traditional Herbs Using NMR **First Author:** Liu, T.L., BAAFS, lting11@163.com **PI:** Edison, A.S.E., UF, aedison@ufl.edu **Category:** Chemistry **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
343	**Title:** Structural Studies of Membrane-bound Piscidin by 13C Magic Angle Spinning Solid-state NMR **First Author:** Cotten, M., Hamilton College, Chemistry, mcotten@hamilton.edu **PI:** Cotten, M., Hamilton College, Chemistry, mcotten@hamilton.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Submitted to** J. Am. Chem. Soc. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
349	**Title:** TOCCATA Metabolomics Database: A New Addition to the COLMAR Web Server **First Author:** Zhang, F., NHMFL, FSU, fzhang@magnet.fsu.edu **PI:** Brüschweiler, R., OSU, bruschweiler.1@osu.edu **Category:** Chemistry **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** Anal. Chem.	Edited

	Sign. Achievement: No **Director's Recommendation: No** **Director's Comments:** None	
284	**Title:** Assessing the Electronic Structure of Iron Sites in Fe-Substituted MOF-5 **First Author:** Dinca, M.D., MIT, Chemistry, mdinca@mit.edu **PI:** Dinca, M.D., MIT, Chemistry, mdinca@mit.edu **Category:** Chemistry **Facility:** EMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
292	**Title:** HFEPR of Chromium(IV) Siloxide **First Author:** Krzystek, J., NHMFL, krzystek@magnet.fsu.edu **PI:** Krzystek, J., NHMFL, krzystek@magnet.fsu.edu **Category:** Chemistry **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
295	**Title:** NMR Characterization of Tetra-meso-substituted Porphyrins Synthesized by Mechanochemistry **First Author:** Hamilton, T.D., Barry University, Physical Sciences, thamilton@mail.barry.edu **PI:** Hamilton, T.D., Barry University, Physical Sciences, thamilton@mail.barry.edu **Category:** Chemistry **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Submitted to** Faraday Discussions **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
Total Reports: 73		