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| **List Of 2017 Reports**

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| **ID#** | **Title, First Author, and Category** | **Status** |
| [**27**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=27) |  **Title:** Toward room temperature ferroelectric ferromagnets in (LuFeO3)n(LuFe2O4)m superlattices **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 - Materials **Facility:** DC Field Facility **Highest Measured Field:** 25 T **UCGP:** No    **VSP:** **Yes**   **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**29**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=29) |  **Title:** Magnetostructural Phase Diagram of Multiferroic (ND4)2FeCl5.H2O **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 - Materials **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 65 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**44**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=44) |  **Title:** Influence of the Exposure to Hydrogen Sulfide on Transport Properties of Zeolitic Imidazole Framework-8 **First Author:** Dutta , A.R., University of Florida, Chemical Engineering Department, adutta92@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering Department, svasenkov@che.ufl.edu **Category:** Chemistry - Materials **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.6 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**45**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=45) |  **Title:** Transport Properties of Crystals of Zeolitic Imidazole Framework-11 Embedded in Polymers to Form Mixed-Matrix Membranes **First Author:** Forman , E.M., University of Florida, Chemical Engineering Department, eforman@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering Department, svasenkov@che.ufl.edu **Category:** Chemistry - Materials **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.6 T **UCGP:** No    **VSP:** No   **Published in** Microporous and Mesoporous Materials 248, 158-163 **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**46**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=46) |  **Title:** Diffusion of Light Gases in Nanoporous Gold by High Field PFG NMR **First Author:** Baniani , A., University of Florida, Chemical Engineering Department, abaniani@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering Department, svasenkov@che.ufl.edu **Category:** Chemistry - Materials **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.6 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**47**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=47) |  **Title:** Gas Transport in Mixed-Linker Zeolitic Imidizolate Framework by High Field Diffusion NMR **First Author:** Berens, S.J., University of Florida, Chemical Engineering Department, samuelberens@ufl.edu **PI:** Vasenkov, S., University of Florida, Chemical Engineering Department, svasenkov@che.ufl.edu **Category:** Chemistry - Materials **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.6 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**79**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=79) |  **Title:** Probing Redox Reactions in Rechargeable Batteries by Operando Electron Paramagnetic Resonance **First Author:** Tang, TMX, FSU, Chemistry and NHMFL, tangmx11@gmail.com **PI:** Hu, HYY, FSU, Chemistry and NHMFL, hu@chem.fsu.edu **Category:** Chemistry - Materials **Facility:** EMR Facility **Highest Measured Field:** 14 T **UCGP:** No    **VSP:** No   **Published in** J. Physical Chemistry Letters 2017, 8, 4009–4016 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**80**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=80) |  **Title:** New Insights into Li-Ion Transport in Composite Electrolytes **First Author:** Zheng, ZJ, FSU, Chemistry, jzheng0605@gmail.com **PI:** Huang, KK, University of South Carolina, huang46@cec.sc.edu **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 11.7 T **UCGP:** No    **VSP:** No   **Published in** J. Materials Chemistry A 5, 18457–18463 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**82**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=82) |  **Title:** In Situ NMR Studies of Sites Dynamics for Rechargeable Batteries **First Author:** Chen, CH, Georgia Tech, hailong.chen@me.gatech.edu **PI:** Chen, CH, Georgia Tech, hailong.chen@me.gatech.edu **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 14.1 T **UCGP:** No    **VSP:** No   **Accepted by** J. Power Sources  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**90**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=90) |  **Title:** Probing the Surface of γ-Al2O3 by Oxygen-17 Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy **First Author:** Wang, QW, Wuhan Institute of physics and mathematics, CAS, China, qiangwang@wipm.ac.cn **PI:** Xu,J, Wuhan Institute of physics and mathematics, CAS, China, xujun@wipm.ac.cn **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 14.1 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** None | Approved |
| [**104**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=104) |  **Title:** 15N Solid-State NMR Investigations of Heteroanionic Oxynitrides **First Author:** Haile, HS, Northwestern University, Department of Materials Science and Engineering, sossina.haile@northwestern.edu **PI:** Haile, HS, Northwestern University, Department of Materials Science and Engineering, sossina.haile@northwestern.edu **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 18.8 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**164**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=164) |  **Title:** High-Field EPR Investigations of Mn-Doped Lead-Free Piezoelectric Ceramics **First Author:** Koruza, J, TU Darmstadt, Institute of Materials Science, koruza@ceramics.tu-darmstadt.de **PI:** Koruza, J, TU Darmstadt, Institute of Materials Science, koruza@ceramics.tu-darmstadt.de **Category:** Chemistry - Materials **Facility:** EMR Facility **Highest Measured Field:** 14.5 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**198**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=198) |  **Title:** 19F and 1H Chemical Environment and Connectivity in Fluoridated Hydroxyapatite **First Author:** Mosiman, D.S., University of Illinois at Urbana-Champaign, Civil and Environmental Engineering, mosiman3@illinois.edu **PI:** Marinas, B.J., University of Illinois at Urbana-Champaign, Civil and Environmental Engineering, marinas@illinois.edu **Category:** Chemistry - Materials **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 | Approved |
| [**271**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=271) |  **Title:** Structure of Amorphous Selenium by 2D 77Se NMR Spectroscopy **First Author:** Marple, Maxwell Marple, University of California, Davis, Materials Science & Engineering, mamarple@ucdavis.edu **PI:** Sen, S, University of California, Davis, Materials Science & Engineering, mamarple@ucdavis.edu **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 19.6 T **UCGP:** No    **VSP:** No   **Published in** Angew. Chem. Int. Ed. 56, 9777 **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**272**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=272) |  **Title:** Tellurium Speciation in BaO-TeO2 Glasses: Results from Two-Dimensional 125Te pjMATPASS/CPMG NMR Spectroscopy **First Author:** Whittles, Zach, University of California at Davis, Materials Science & Engineering, zlwhittles@ucdavis.edu **PI:** Sen, S, University of California at Davis, Materials Science & Engineering, sbsen@ucdavis.edu **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 19.6 T **UCGP:** No    **VSP:** No   **Published in** J. Non-Crystalline Solids 481, 282 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**314**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=314) |  **Title:** Modified Alumina Catalysts with Organic Groups for Fructose Dehydration Process Into a Continuous Reactor to Obtain 5-Hydroxymethylfurfural **First Author:** Wi, S, NHMFL, NMR, sungsool@magnet.fsu.edu **PI:** Garcia, C. D., Clemson University, Chemistry, cdgarci@clemson.edu **Category:** Chemistry - Materials **Facility:** NMR Facility **Highest Measured Field:** 14.1 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**396**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=396) |  **Title:** New multisensitive materials based on the organic-inorganic hybrid perovskites [TPrA][Mn(dca)3] and [TPrA][Fe(dca)3]  **First Author:** Bermúdez-García, J.M., University of A Coruna, Spain, Dpt of Chemistry and CICA, j.bermudez@udc.es **PI:** Señarís-Rodríguez , M.A., University of A Coruna, Spain, Dpt of Chemistry and CICA, m.senaris.rodriguez@udc.es **Category:** Chemistry - Materials **Facility:** Pulsed Field Facility at LANL **Highest Measured Field:** 65 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
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