List Of 2012 Reports

ID#	Title, First Author, and Category	Status
44	**Title:** Quantum Hall Effect in Hydrogenated Graphene **First Author:** Guillemette, J., McGill University, Physics, jonathan.guillemette@mail.mcgill.ca **PI:** Gervais, G., McGill University, Physics, gervais@physics.mcgill.ca **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Science now, will proceed with a submission to Nat physics if Science rejects us **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** Exciting results generated in the hybrid magnet this fall	Edited
402	**Title:** Time-Resolved Evidence for Superfluorescent Radiation from Quantum Wells in Strong Magnetic Fields **First Author:** Kim, J.-H, Rice University, Electrical and Computer Engineering, jkim@rice.edu **PI:** Kono, J., Rice University, Electrical and Computer Engineering/Physics, kono@rice.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 87/4/045304(2013) **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Edited
403	**Title:** Temperature and Magnetic Field-dependent Photoluminescence Studies of Nanoscale Materials **First Author:** Green, T.D., Florida State University, Chemistry and Biochemistry, tgreen@chem.fsu.edu **PI:** Knappenberger, K.L., Florida State University, Chemistry and Biochemistry, klk@chem.fsu.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Chem. Chem. Phys. 14,11053-11059 **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Edited
323	**Title:** Pinning Modes of 2D Electron Systems with Controlled Alloy Disorder Near Landau Filling ?=1 **First Author:** Moon, B.H., NHMFL/FSU , bhmoon@gmail.com **PI:** Engel, L.W., NHMFL/FSU, engel@magnet.fsu.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
172	**Title:** Re-entrant Integer Quantum Hall Effect in the Lowest Landau Level **First Author:** Liu, Y., Princeton University, Electrical engineering, yltwo@princeton.edu **PI:** Shayegan, M., Princeton University, Electrical engineering, shayegan@princeton.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Accepted by** Phys. Rev. Lett. Phys. Rev. Lett. 109, 036801 (2012) **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
199	**Title:** Magnetotransport of InAs/GaSb Quantum Wells Near Topological to Semiconducting Band Transition **First Author:** Du, L.J., Rice , Physics, lingjie.du@rice.edu **PI:** Du, R.R., Rice, Physics, rrd@rice.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. Phys. Rev. Lett. 107, 136603 (2012) **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
	Title: High Frequency, Pulsed and HYSCORE Electron Spin Resonance Investigations on Unzipped Graphene Nanoribbons	

71	**First Author:** Rao, S.S. (Singamaneni), INPAC, K U Leuven, Belgium, Semiconductor physics laboratory, rao.iisc@gmail.com **PI:** Stesmans, A., INPAC, K U Leuven, Belgium, Semiconductor physics laboratory, andre.stesmans@fys.kuleuven.be **Category:** Semiconductors **Facility:** EMR Facility **UCGP:** Yes **VSP:** No **Published in** Nano Letters 12/1210 **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
102	**Title:** Effective Mass from Microwave Photoresistance in GaAs/AlGaAs Quantum Wells **First Author:** Zudov, M.A., University of Minnesota, zudov@physics.umn.edu **PI:** Zudov, M.A., University of Minnesota, zudov@physics.umn.edu **Category:** Semiconductors **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
104	**Title:** Enhancement and Narrowing of the Aharonov-Bohm Oscillations Due to Built-in Electric Field in Stacked Type-II ZnTe/ZnSe Quantum Dots **First Author:** Roy, B., Queens College of CUNY, Department of Physics, bidishae@gmail.com **PI:** Kuskovsky, I.L., Queens College of CUNY, Department of Physics, IKuskovsky@gc.cuny.edu **Category:** Semiconductors **Facility:** EMR Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B vol.86, 165310 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
107	**Title:** Magnetic Circular Dichroism in Strontium Titanate **First Author:** Rice, W.D., NHMFL-LANL, crooker@lanl.gov **PI:** Leighton, C., University of Minnesota, crooker@lanl.gov **Category:** Semiconductors **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
115	**Title:** g-factor in Very High-mobility p-SiGe/Ge/SiGe Heterostructures in a Tilted Magnetic Field: Acoustic Studies **First Author:** Drichko, I.L., A.F. Ioffe Physical-technical Institute, irina.l.drichko@mail.ioffe.ru **PI:** Drichko, I.L., A.F. Ioffe Physical-technical Institute, irina.l.drichko@mail.ioffe.ru **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** Minor text edits	Edited
78	**Title:** Optical Spectroscopy of Spin Noise **First Author:** Zapasskii, V.S., St. Petersburg State, crooker @lanl.gov **PI:** Greilich, A., Technical University of Dortmund, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** Yes **Submitted to** Phys. Rev. Lett. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
79	**Title:** Electrical Spin Injection & Detection in Silicon Nanowires through Oxide Tunnel Barriers **First Author:** Zhang, S.X., CINT- Los Alamos, crooker@lanl.gov **PI:** Picraux, S.T., CINT-Los Alamos, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL	Edited

	UCGP: No **VSP:** No **Submitted to** Nano Letters **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
81	**Title:** Role of Nuclear Quadrupole Coupling on Decoherence and Relaxation of Central Spins in Quantum Dots **First Author:** Sinitsyn, N.A., Theory Division, Los Alamos, crooker@lanl.gov **PI:** Sinitsyn, N.A., Theory Division, Los Alamos, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Accepted by** Phys. Rev. Lett. v109, p166605 (2012) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
82	**Title:** Magneto-Photoluminescence Measurements of Dilute $GaAs_{1-x}N_x$ **First Author:** Alberi, K., NREL, crooker@lanl.gov **PI:** Mascarenhas, A., NREL, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Accepted by** Phys. Rev. B v86, p205203 (2012) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
94	**Title:** Magneto-Photo-Luminescence and Time Resolved Photo-Luminescence spectroscopy of $InAs_xP_{1-x}$ Alloys **First Author:** Khodaparast, G., Virginia Tech, Physics, khoda@vt.edu **PI:** Khodaparast, G., Virginia Tech, Physics, khoda@vt.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
215	**Title:** Magneto-transport in Bi_2Te_2Se: Shubnikov-de Haas Oscillation and Quantum Hall Effect **First Author:** Cao, H., Purdue University, Physics Department, cao2@purdue.edu **PI:** Chen, Y.P., Purdue University, Physics and ECE, yongchen@purdue.edu **Category:** Semiconductors **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
227	**Title:** Quantum Oscillations of the Rashba Spin-splitting Compound BiTeI **First Author:** Martin, C., University of Florida, Physics, cmartin@phys.ufl.edu **PI:** Tanner, D.B., University of Florida, Physics, tanner@phys.ufl.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Phys. Rev. Lett. **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
320	**Title:** High-Field Magnetoluminescence of Colloidal Mn^{2+}-doped CdSe Quantum Dots **First Author:** Dempsey, J., University of Washington, Chemistry, dempseyj@email.unc.edu **PI:** Gamelin, D.R., University of Washington, Chemistry, Gamelin@chem.washington.edu **Category:** Semiconductors **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
	Title: Anomalous Pinning Mode in Wide Quantum Wells near Landau Filling ?=1	

321	**First Author:** Hatke, A.T., NHMFL/FSU, hatk0002@gmail.com **PI:** Engel, L.W., NHMFL/FSU, engel@magnet.fsu.edu **Category:** Semiconductors **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
195	**Title:** Effect of Variation of Charge Carrier on 5/2 Fractional Quantum Hall Effect **First Author:** Masuhara, N., University of Florida, Physics **PI:** Pan, W., Sandia National Lab., wpan@sandia.gov **Category:** Semiconductors **Facility:** High B/T Facility at UF **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. 106,206806 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
59	**Title:** Overlapped Conduction and Valence Bands in the HgTe/CdHgTe Heterostructures **First Author:** Yakunin, M.V., Institute of Metal Physics, Ekaterinburg, Russia, yakunin@imp.uran.ru **PI:** Yakunin, M.V., Institute of Metal Physics, Ekaterinburg, Russia, yakunin@imp.uran.ru **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 85, 245321 **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** Minor text correction	Edited
19	**Title:** Trionic Instability in CdTe Quantum Wells at High Magnetic Field **First Author:** Baldwin, T., Univ. of Oregon, tbaldwin@uoregon.edu **PI:** Wang, H., Univ. of Oregon, hailin@uoregon.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
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