List Of 2014 Reports

ID#	Title, First Author, and Category	Status
95	**Title:** Valley Splitting and Polarization by the Zeeman Effect in Monolayer MoSe2 **First Author:** Li, Y., Columbia University, Physics, yl2673@columbia.edu **PI:** Heinz, T. F., Columbia University, Physics, tony.heinz@columbia.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Accepted by** Phys. Rev. Lett. **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes, definitely** **Director's Comments:** None	Editing
96	**Title:** Two-Dimensional Magnetotransport in a Black Phosphorus Naked Quantum Well **First Author:** Tayari, V, McGill University, Electrical and Computer Engineering, vahid.tayari@gmail.com **PI:** Gervais, G, McGill University, gervais@physics.mcgill.ca **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** nature communications **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
102	**Title:** Colossal Negative Magnetoresistance in a Two-Dimensional Electron Gas **First Author:** Shi, Q, University of Minnesota, Physics Department, qshi@physics.umn.edu **PI:** Zudov, MA, University of Minnesota, Physics Department, zudovi@physics.umn.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B Rapid Commun. 89/201301/2014 & 90/201301/2014 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
133	**Title:** Even-denominator Fractional Quantum Hall Effect at a Landau Level Crossing **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 **Published in** Phys. Rev. B Phys. Rev. B 89, 165313 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
140	**Title:** Fermi Contour Anisotropy of GaAs Electron-Flux Composite Fermions in Parallel Magnetic Fields **First Author:** Kamburov, D, Princeton University, Electrical Engineering, dobromir@princeton.edu **PI:** Shayegan, M, Princeton University, Electrical Engineering, shayegan@princeton.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
6	**Title:** Isotropic vs. Anisotropic Transport in the Field Induced Wigner-Crystal State in 2D Holes **First Author:** Gao, X.P.A, Case Western University, xxg15@case.edu **PI:** Gao, X.P.A, Case Western University, xxg15@case.edu **Category:** Semiconductors **Facility:** High B/T Facility at UF **UCGP:** No **VSP:** No **Submitted to** Science **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
58	**Title:** Time and Spin-resolved Photoluminescence of Crystalline Organic Semiconductors **First Author:** Rawat, N., University of Vermont, Materials Science Program, nrawat@uvm.edu **PI:** Furis, M., University of Vermont, Physics and Materials Science, madalina.furis@uvm.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** **Yes** **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** None	Editing
	Title: Quantum Oscillations in Black Phosphorus Two-dimensional Electron Gas	

211	**First Author:** Li, L, Fudan University, Dept. of Physics, li.likai.1990@gmail.com **PI:** Zhang, Y, Fudan University, Dept. of Physics, zhyb@fudan.edu.cn **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Submitted to** Nature Nanotechnology **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None	Editing
197	**Title:** State-Resolved Electron Dynamics in Structurally Precise Metal Clusters **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** J. Phys. Chem. A 118, 10611-10621 **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Editing
203	**Title:** Magneto-Optical Spectroscopy of Excitonic Fine-Structure in Diamond **First Author:** Hazama, Y, Kyoto University, Department of Physics, hazama@scphys.kyoto-u.ac.jp **PI:** Naka, N, Kyoto University, Department of Physics, naka@scphys.kyoto-u.ac.jp **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	Editing
212	**Title:** Cyclotron Resonance in Narrow Gap HgTe Quantum Wells **First Author:** Ludwig, J., NHMFL, jludwig@magnet.fsu.edu **PI:** Vasilyev, Yu.B., Ioffe Physical Technical Institute, St. Petersburg, Russia, yu.vasilyev@mail.ioffe.ru **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	Editing
226	**Title:** Temperature- and Magnetic Field-Dependent Photoluminescence from Solvent-Free Nanotube-Aerogel Ensembles **First Author:** Parra-Vasquez, ANG, Chemistry Division, Los Alamos, crooker@lanl.gov **PI:** Duque, JG, Chemistry Division, Los Alamos, 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	Editing
227	**Title:** Ultrafast Optical Studies of Electron Spin Coherence in CdSe Nanocrystals **First Author:** Rice, WD, NHMFL-LANL, wdrice@lanl.gov **PI:** Crooker, SA, NHMFL-LANL, 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	Editing
239	**Title:** The Optical Properties of Two-Dimensional Germanane **First Author:** Odenthal, P, UC Riverside, crooker@lanl.gov **PI:** Kawakami, RK, Ohio State University & UC RIverside, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
260	**Title:** Phase Diagram of the Cadmium Doped Superconductor PuRhIn5 **First Author:** Wartenby, MR, FSU, LANL, mrw03h@fsu.edu **PI:** Bauer, ED, LANL, edbauer@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL	Editing

	UCGP: No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
267	**Title:** IR Magneto-Spectroscopy of InAsSb **First Author:** Ludwig, J., NHMFL, jludwig@magnet.fsu.edu **PI:** Suchalkin, S., State University of New York at Stony Brook, suchalkin@gmail.com **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	Editing
285	**Title:** Magnetotransport in a (100)Si/ Sige/Ge -Based Heterostructures with 2DHG of Ultra High Mobility in 100% Pure Ge Quantum Wells in High Magnetic Fields B>16T and T<350 mK **First Author:** Mironov, O.A., University of Warwick, Physics, oamironov@yahoo.co.uk **PI:** Mironov, O.A., University of Warwick, Physics, oamironov@yahoo.co.uk **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:** None	Editing
291	**Title:** Time-resolved Magneto-Luminescence Measurements in Quantum Wells with Variable Well Widths for Optically Pumped NMR Experiments **First Author:** Wood, RM, University of Florida, Chemistry, wood@chem.ufl.edu **PI:** Bowers, CR, University of Florida, Chemistry, bowers@chem.ufl.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP: Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
372	**Title:** Magneto Transport Measurements in Narrow Band Gap Semiconductors **First Author:** Shabani, J, University of California, Santa Barbara, California NanoSystems Institute, javadshabani@gmail.com **PI:** Palmstrom, C.J., University of California, Santa Barbara, Electrical and Comp. Eng. and Materials, cpalmstrom@ece.ucsb.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 90/161303(R) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
61	**Title:** Superfluorescence from a Two-Dimensional Electron-Hole System: Magnetic Field, Temperature, and Density Dependence **First Author:** Cong, KC, Rice University, Departments of Electrical & Computer Engineering and Physics & Astronomy, congkankan@gmail.com **PI:** Kono, JK, Rice University, Departments of Electrical & Computer Engineering and Physics & Astronomy, kono@rice.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	Editing
67	**Title:** Polarization Dependent Magneto-Photoluminescence in Type-II Quantum Dots **First Author:** Ji, H., Queens College, Physics, Haojie Ji **PI:** Kuskovsky, I.L., Queens College, Physics, Igor.Kuskovsky@qc.cuny.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	Editing
	Title: The Diminishing Magneto-Resistance (MR) of Few Layer Mos2 **First Author:** Park, M., Seoul National University, mpark@phya.snu.ac.kr **PI:** Park, Y. W., Seoul National University, ywpark@phya.snu.ac.kr	

75	**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	Editing
88	**Title:** Magnetic Field-Induced Direct-Indirect Bandgap Crossover in AlXGa1-xAs **First Author:** Alberi, K, NREL, Kirstin.Alberi@nrel.gov **PI:** Mascarenhas, A, NREL, Kirstin.Alberi@nrel.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Published in** Applied Physics Express v7, p111201 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
90	**Title:** Spin Noise Spectroscopy beyond Thermal Equilibrium and Linear Response **First Author:** Glasenapp, P, TU-Dortmund, crooker@lanl.gov **PI:** Crooker, SA, NHMFL-LANL, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Published in** Phys. Rev. Lett. 113, 156601 (2014). **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
91	**Title:** Spectrally-Resolved Hyperfine Interactions between Polaron and Nuclear Spins in OLEDS: Magneto-Electroluminescence Studies **First Author:** Crooker, SA, NHMFL-LANL, crooker@lanl.gov **PI:** Crooker, SA, NHMFL-LANL, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Published in** Appl. Phys. Lett. 105, 153304 (2014). **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
92	**Title:** Two-Color Spin Noise Spectroscopy: Using Spin Fluctuation Correlations to reveal Homogeneous Linewidths within Quantum Dot Ensembles **First Author:** Yang, L, NHMFL-LANL, crooker@lanl.gov **PI:** Crooker, SA, NHMFL-LANL, crooker@lanl.gov **Category:** Semiconductors **Facility:** Pulsed Field Facility at LANL **UCGP:** No **VSP:** No **Published in** Nature Communications 5, 4949 (2014). **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
151	**Title:** Understanding Defect Structure of Metal Ion Doped (Fe3+, Mn2+, Co2+) ZnO Nanomaterials by Using High-Field EPR Spectroscopy **First Author:** Erdem, EE, University of Freiburg, Physical Chemistry, emre.erdem@physchem.uni-freiburg.de **PI:** Erdem, EE, University of Freiburg, Physical Chemistry, emre.erdem@physchem.uni-freiburg.de **Category:** Semiconductors **Facility:** EMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
185	**Title:** Microwave Spectroscopic Observation of a Wigner Crystal of 1/2-Charged Quasiholes **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	Editing
187	**Title:** Phase Transitions in the Bilayer Solid in Wide Quantum Wells **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	Editing

	UCGP: No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
104	**Title:** Competing Quantum Hall Phases in the Second Landau Level in Low Density Limit **First Author:** Pan, W., Sandia National Laboratory, wpan@sandia.gov **PI:** Pan, W., Sandia National Laboratory, wpan@sandia.gov **Category:** Semiconductors **Facility:** High B/T Facility at UF **UCGP:** No **VSP:** No **Published in** Phys. Rev. B 88, 241302 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
106	**Title:** Surface Acoustic Waves Probe of the Anomalies in AC Conductivity near Filling Factor 1/5 in GaAs/AlGaAs Structure **First Author:** Drichko, I.L., A.F. Ioffe Physico-Technical Institute of Russian Academy of Sciences, irina.l.drichko@mail.ioffe.ru **PI:** Drichko, I.L., A.F. Ioffe Physico-Technical Institute of Russian Academy of Sciences, 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:** None	Editing
101	**Title:** Nonequilibrium Magnetotransport in a 2D Hole Gas Hosted in a Ge/Sige Quantum Well **First Author:** Shi, Q, University of Minnesota, Physics Department, qshi@physics.umn.edu **PI:** Zudov, MA, University of Minnesota, Physics Department, zudovi@physics.umn.edu **Category:** Semiconductors **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Phys. Rev. B Rapid Commun. 89/125401/2014(PRB) & 90/161301/2014 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Editing
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