

List Of 2012 Reports

| ID# | Title, First Author, and Category | Status |
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| 155 | <p>Title: Filling-Factor-Dependent Magnetophonon Resonance with Circularly Polarized Phonons in Graphene Revealed by Magneto-Raman Spectroscopy</p> <p>First Author: Kim, Y., NHMFL, ykim@magnet.fsu.edu</p> <p>PI: Smirnov, D., NHMFL, smirnov@magnet.fsu.edu</p> <p>Category: Graphene</p> <p>Facility: DC Field Facility</p> <p>UCGP: Yes VSP: No Submitted to Phys. Rev. Lett.</p> <p>Sign. Achievement: Yes</p> <p>Director's Recommendation: Yes, definitely</p> <p>Director's Comments: None</p> | Edited |
| 311 | <p>Title: Magnetotransport and Capacitance of Proximally-Gated Monolayer Graphene</p> <p>First Author: Hunt, B., MIT, Physics, benhunt@mit.edu</p> <p>PI: Ashoori, R.C., MIT, Physics, ashoori@mit.edu</p> <p>Category: Graphene</p> <p>Facility: DC Field Facility</p> <p>UCGP: No VSP: No Publication Status: Manuscript in preparation</p> <p>Sign. Achievement: No</p> <p>Director's Recommendation: Yes, definitely</p> <p>Director's Comments: None</p> | Edited |
| 7 | <p>Title: Infrared Spectroscopy of Tunable Magneto-Plasmons in Graphene</p> <p>First Author: Yan, H., IBM T. J. Watson Research Center, hgyan2135@gmail.com</p> <p>PI: Avouris, P., IBM T. J. Watson Research Center, avouris@us.ibm.com</p> <p>Category: Graphene</p> <p>Facility: DC Field Facility</p> <p>UCGP: No VSP: No Published in Nano Letters 12, 3766 (2012).</p> <p>Sign. Achievement: Yes</p> <p>Director's Recommendation: Yes</p> <p>Director's Comments: None</p> | Edited |
| 50 | <p>Title: Spin Phase Transition in Bilayer Graphene at Charge Neutrality</p> <p>First Author: Maher, P., Columbia University, Physics, pmaher86@gmail.com</p> <p>PI: Kim, P., Columbia University, Physics, pk2015@columbia.edu</p> <p>Category: Graphene</p> <p>Facility: DC Field Facility</p> <p>UCGP: No VSP: No Accepted by Nature Physics</p> <p>Sign. Achievement: Yes</p> <p>Director's Recommendation: Yes</p> <p>Director's Comments: None</p> | Edited |
| 256 | <p>Title: Towards the Quantum Spin Hall Effect in Graphene</p> <p>First Author: Fatemi, V., MIT, Physics, vfatemi@mit.edu</p> <p>PI: Jarillo-Herrero, P., MIT, Physics, pjarillo@mit.edu</p> <p>Category: Graphene</p> <p>Facility: DC Field Facility</p> <p>UCGP: No VSP: No Publication Status: Manuscript in preparation</p> <p>Sign. Achievement: No</p> <p>Director's Recommendation: Yes</p> <p>Director's Comments: None</p> | Edited |
| 265 | <p>Title: Graphene Quantum Hall for Quantum Resistance Standard</p> <p>First Author: Shen, T., NIST, Tian.shen@nist.gov</p> <p>PI: Newell, D. B., NIST, david.newell@nist.gov</p> <p>Category: Graphene</p> <p>Facility: DC Field Facility</p> <p>UCGP: No VSP: No Publication Status: Not at this time</p> <p>Sign. Achievement: No</p> <p>Director's Recommendation: No</p> <p>Director's Comments: None</p> | Edited |

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| 287 | <p>Title: Magnetotransport in Graphene Nanostructures: Disorder and Interaction Physics for Dirac Fermions First Author: Hu, J., Purdue University, hu49@purdue.edu PI: Chen, Y., Purdue University, yongchen@purdue.edu Category: Graphene Facility: DC Field Facility UCGP: No VSP: No Submitted to NA Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p> | Edited |
| 306 | <p>Title: Broken Symmetry Quantum Hall States in Dual Gated ABA Trilayer Graphene First Author: Lee, Y., University of California, Riverside, Physics, kenosis101@gmail.com PI: Lau, C.N., University of California, Riverside, Physics, lau@physics.ucr.edu Category: Graphene Facility: DC Field Facility UCGP: Yes VSP: No Submitted to Nano Letters Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p> | Edited |
| 63 | <p>Title: Cooling of Hot-Carriers with Landau Levels in Graphene First Author: Xu, X.D., Assistant Prof. of University of Washington, Physics, xuxd@uw.edu PI: Xu, X.D., Assistant Prof. of University of Washington, Physics, xuxd@uw.edu Category: Graphene Facility: DC Field Facility UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: Minor text corrections</p> | Edited |
| 8 | <p>Title: Optical Study of Magneto-plasmons and Interaction Effects in Graphene First Author: Yan, H., IBM T. J. Watson Research Center, hgyan2135@gmail.com PI: Li, Z., NHMFL, zli@magnet.fsu.edu Category: Graphene Facility: DC Field Facility UCGP: Yes VSP: No Accepted by New Journal of Physics Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None</p> | Edited |
| 37 | <p>Title: Simultaneous Investigation of Magnetoresistance (MR) and Twisted Angle of Twisted Bilayer Graphene First Author: Hong, S. J., Seoul National University, Department of Physics and Astronomy, sjhong@phy.snu.ac.kr PI: Park, Y. W., Seoul National University, Department of Physics and Astronomy, ywpark@phy.snu.ac.kr Category: Graphene Facility: DC Field Facility UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: Minor text corrections</p> | Edited |
| 6 | <p>Title: Symmetry Breaking of Electronic States in Graphene Manifested Through Electrical Transport in High Magnetic Field First Author: Skachko, I., Rutgers University, Physics & Astronomy, skachko@physics.rutgers.edu PI: Andrei, E.Y., Rutgers University, Physics & Astronomy, eandrei@physics.rutgers.edu Category: Graphene 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</p> | Edited |
| 162 | <p>Title: IR Spectroscopy of Graphene Nanoribbons Arrays First Author: Poumirol, J.M., NHMFL, poumirol@magnet.fsu.edu PI: Jiang, Z., Georgia Institute of Technology, School of Physics, zhigang.jiang@physics.gatech.edu Category: Graphene Facility: DC Field Facility UCGP: No VSP: No Publication Status: Manuscript in preparation</p> | Edited |

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| Sign. Achievement: No Director's Recommendation: No Director's Comments: None | |
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