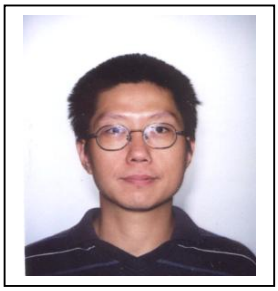

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MAJOR RESEARCH INTERESTS

-Emerging electronic devices
-Quantum transport
-Spintronic devices
-Nanoelectronics

SELECTED PUBLICATIONS

1. G.-C. Liang, A. Ghosh, M. Paulsson, and S. Datta, "Electrostatic potential profiles of molecular conductors," Phys. Rev. B 69 115302 (2004).
2. T. Rakshit, G-C. Liang, A. W. Ghosh, and S. Datta, "Silicon-based molecular electronics," Nano Letters, 4 1803 (2004).
3. G.-C. Liang*, and A. Ghosh, "Identifying contact effects in electronic conduction through buckyballs on Silicon," Phys. Rev. Lett. 95, 076403 (2005).
4. G.-C. Liang*, N. Neophytos, D. Nikonov, and M. Lundstrom "Performance projections for ballistic graphene nanoribbon field-effect transistors," IEEE Transactions on Electron Devices, Volume 54, Issue 4, April 2007, page(s):677 - 682.
5. G.-C. Liang*, J. Xiang, Neerav Kharche, Gerhard Klimeck, C. Lieber, and M. Lundstrom, "Performance Analysis of a Ge/Si Core/Shell Nanowire Field Effect Transistor," Nano Letters, 7 642 (2007).
6. G.-C. Liang*, N. Neophytos, M. Lundstrom, and D. Nikonov, "Ballistic Graphene Nanoribbon MOSFETs: a full quantum real-space simualtion study," Journal of Applied Physics, 102, 054307, 2007.
7. Gengchiau Liang*, N. Neophytos, Mark Lundstrom and D. Nikonov, "Contact Effects in Graphene Nanoribbon Transistors", Nano letters, 8(7); 1819-1824, 2008.
8. Kaitak Lam and Gengchiau Liang*, "An Ab Initio Study on Energy Gap of Bilayer Graphene Nanoribbons with Armchair Edges," Appl. Phys. Lett. 92, 223106 (2008).
9. Kai-Tak Lam, Dawei Seah, S. K. Chin, S. Bala Kumar, G. Samudra, Yee-Chia Yeo, and Gengchiau Liang*, "A Simulation Study of Graphene Nanoribbon Tunneling FET with Heterojunction Channel" IEEE Electron Device Letter, 31(6), 557, 2010.
10. Minggang Zeng, Yuan Ping Feng, and Gengchiau Liang*, "Graphene-based Spin Caloritronics," Nano Lett., 2011, 11 (3), pp 1369–1373.