Young-Kyun Kwon

LIST OF PUBLICATIONS

(in reverse chronological order)

27. Young-Kyun Kwon, Steven G. Louie, and Marvin L. Cohen, Excitonic effects in Optical properties of Carbon Nanotubes, in preparation.

26. Young-Kyun Kwon, Steven G. Louie, and Marvin L. Cohen, Optical Properties of Semiconductors: excitonic effects, in preparation.

25. Young-Kyun Kwon, Pedro Serra, David Tománek, and Jorge M. Pacheco, Are there Magnetic Magic Numbers?, in preparation.

24. Young-Kyun Kwon, and Seung-Hoon Jhi, H_2 Adsorption on sp^2-bonded Carbon Structures: *Ab Initio* Study, submitted for publication.

23. Seung-Hoon Jhi, and Young-Kyun Kwon, Glassy materials as a hydrogen storage medium: Density functional calculations, Phys. Rev. B **71**, 035408 (2005).

22. Young-Kyun Kwon and Philip Kim, Unusually High Thermal Conductivity in Carbon Nanotubes, in Subhash L. Shinde and Jitendra Goela (eds.), *High Thermal Conductivity Materials*, Springer-Verlag, in press.

21. Seung-Hoon Jhi, and Young-Kyun Kwon, Hydrogen Adsorption on BN Nanotubes: A Path to Room-temperature Hydrogen Storage, Phys. Rev. B **69**, 245407 (2004).

20. Seung-Hoon Jhi, Young-Kyun Kwon, Keith Bradley, and Jean-Christopher P. Gabriel, Hydrogen storage by physisorption: beyond carbon, Solid State Commun. **129**, 769–773 (2004).

19. Young-Kyun Kwon, Savas Berber, and David Tománek, Thermal Contraction of Carbon Fullerenes and Nanotubes, Phys. Rev. Lett. **92**, 015901 (2004).

18. Savas Berber, Young-Kyun Kwon, and David Tománek, Bonding and Energy Dissipation in a Nanohook Assembly, Phys. Rev. Lett. **91**, 165503 (2003).

17. Steven Bailey, David Tománek, Young-Kyun Kwon, and Colin J. Lambert, Giant Magnetoconductance in Twisted Carbon Nanotubes, Europhys. Lett. **59**, 75–80 (2002).

16. Savas Berber, Young-Kyun Kwon, and David Tománek, Microscopic Formation Mechanism of Nanotube Peapods, Phys. Rev. Lett. **88**, 185502 (2002).

15. A.M. Rao, J. Chen, E. Richter, U. Schlecht, P.C. Eklund, R.C. Haddon, U.D. Venkateswaran, Y.-K. Kwon, and D. Tománek, Influence of van der Waals Interactions on the Raman Modes in Single Walled Carbon Nanotubes, in *Proceedings of CARBON '01 – International Conference on Carbon*, (2001).

14. J. Koloczek, Young-Kyun Kwon, and A. Burian, Characterization of Spatial Correlations in Carbon Nanotubes - Modeling Studies, J. Alloy Compd. **328**, 222–225 (2001).

13. A.M. Rao, J. Chen, E. Richter, U. Schlecht, P.C. Eklund, R.C. Haddon, U.D. Venkateswaran, Y.-K. Kwon, and D. Tománek, Effect of van der Waals Interactions on the Raman Modes in Single Walled Carbon Nanotubes, Phys. Rev. Lett. **86**, 3895–3898 (2001).

12. Savas Berber, Young-Kyun Kwon, and David Tománek, Electronic and Structural Properties of Carbon Nano-Horn, Phys. Rev. B **62**, R2291–R2294 (2000).

11. Savas Berber, Young-Kyun Kwon, and David Tománek, Unusually High Thermal Conductivity of Carbon Nanotubes, Phys. Rev. Lett. **84**, 4613–4616 (2000).

10. Stefano Sanvito, Young-Kyun Kwon, David Tománek, and Colin J. Lambert, Quantum Transport in Inhomogeneous Multi-Wall Nanotubes, in David Tománek and Richard J. Enbody (eds.), *Science and Application of Nanotubes: Proceedings of the Nanotube '99 Conference*, pp. 333–347, Kluwer Academic Press, New York (2000).

9. Stefano Sanvito, Young-Kyun Kwon, David Tománek, and Colin J. Lambert, Fractional Quantum Conductance in Carbon Nanotubes, Phys. Rev. Lett. **84**, 1974–1977 (2000).

8. Young-Kyun Kwon, and David Tománek, Orientational Melting in Carbon Nanotube Ropes, Phys. Rev. Lett. **84**, 1483–1486 (2000).

7. Mark Brehob, Richard Enbody, Young-Kyun Kwon, and David Tománek, The potential of carbon-based memory systems. in R. Rajsuman, and T. Wik (eds.), *Memory Technology, Design and Testing, Proceedings of IEEE International Workshop MTDT'99*, pp. 110–114, (1999).

6. Young-Kyun Kwon, David Tománek, and Sumio Iijima, "Bucky Shuttle" Memory Device: Synthetic Approach and Molecular Dynamics Simulations, Phys. Rev. Lett. **82**, 1470–1473 (1999).

5. Young-Kyun Kwon, and David Tománek, Electronic and Structural Properties of Multi-Wall Carbon Nanotubes, Phys. Rev. B **58**, R16001–R16004 (1998).

4. Young-Kyun Kwon, Susumu Saito, and David Tománek, Effect of Inter-Tube Coupling on the Electronic Structure of Nanotube Ropes, Phys. Rev. B **58**, R13314–R13317 (1998).

3. Young-Kyun Kwon, David Tománek, Young Hee Lee, Kee Hag Lee, and Susumu Saito, Do Carbon Nanotubes Spin when Bundled ?, J. Mater. Res. **13**, 2363–2367 (1998).

2. Young-Kyun Kwon, Young Hee Lee, Seong-Gon Kim, Philippe Jund, David Tománek, and Richard E. Smalley, Morphology and Stability of Growing Multi-Wall Carbon Nanotubes, Phys. Rev. Lett. **79**, 2065–2068 (1997).

1. Koo-Chul Lee, and Young-Kyun Kwon, An Efficient Monte Carlo Technique for Continuous Functions and Universal Scaling Functions, Chinese J. Phys. **30**, 737 (1992).