

## 10. PUBLICATIONS and PATENTS 2003-2004

### IRG 1

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### IRG 2

Anderson M. E., Tan L. P., Tanaka H., Mihok M., Lee H., **Horn M. W.** and **Weiss P. S.** “Advances in Nanolithography Using Molecular Rulers”, Journal of Vacuum Science and Technology B **21** (2003) 3116  
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Jia L., Moorjani S. G., **Jackson T. N.** and **Hancock W. O.**, “Microscale Transport and Sorting by Kinesin Molecular Motors”, Biomedical Microdevices **6** (2004) 67-74  
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### IRG 3

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**Banavar J. R.**, Gonzalez O., Maddocks J. H. and Maritan A., “Self-Interactions of Strands and Sheets”, Journal of Statistical Physics **110** (2003) 35-50  
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**Banavar J. R.** and Maritan A., “A Comment on the Protein Folds as Platonic Forms”, Journal of Theoretical Biology **223** (2003) 263-265  
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Chen G. G., Bandow S., Margine E. R., Nisoli C., Kolmogorow A. N., **Crespi V. H.**, Gupta R., Sumanasekera G. U., Iijima S. and **Eklund P. C.**, “Chemically Doped Double-Walled Carbon Nanotubes: Cylindrical Molecular Capacitors”, Physical Review Letters **90** (2003) 257403  
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- Jeong D.-Y., Lu Y., Sharma V., **Zhang Q.** and Luo H. S., "Linear Electrooptic Properties of Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-PbTiO<sub>3</sub> Single Crystals at Compositions Near the Morphotropic Phase Boundary;” Jpn. J. Appl. Phys., **42** (2003) 4387  
{Primary Support}
- Kuppa V. and **Manias E.**, “Dynamics of Polymers in Nanoscale Confinements: A Computer Simulations Perspective”, J. Chem. Phys. **118** (2003) 3421-3429  
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- Lew K. K., Pan L., **Dickey E. C.** and **Redwing J. M.**, “Vapor-Liquid-Solid Growth of Silicon-Germanium Nanowires”, Adv. Mater. **15** (2003) 2073  
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- Lew K. K. and **Redwing J. M.**, “Growth Characteristics of Silicon Nanowires Synthesized by Vapor-Liquid-Solid Growth in Nanoporous Alumina Templates”, J. Crystal Growth **254** (2003) 14  
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- Varghese O. K., Paulose M., Gong D., **Grimes C. A.** and **Dickey E. C.**, "Crystallization and High-Temperature Structural Stability of Titanium Oxide Nanotube Arrays", J. Mater. Res. **18** (2003) 156-165  
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