

Characterization of Carbon Nanotubes Using Raman and Infrared Spectroscopy, 2002-2004

THE PROJECT, COMPLETED IN 2002, aimed to develop an effective Raman scattering methodology for examination and characterization of as-grown and purified single wall carbon nanotubes and corresponding polymer-based nanocomposites.

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Publications

Arepalli, S., W. A. Holmes, P. Nikolaev, V. G. Hadjiev, and C. D. Scott. "A Parametric Study of Single-Wall Carbon Nanotube Growth by Laser Ablation," *J. Nanoscience and Nanotechnology* 4.7 (2004): 762-773.

Arepalli, S., P. Nikolaev, O. Gorelik, V. G. Hadjiev, H. A. Bradlev, W. Holmes, B. Files, and L. Yowell. "Protocol for the Characterization of Single-Wall Carbon Nanotube Material Quality," *Carbon* 42.8-9 (2004): 1783-91.

Hadjiev, V. G., S. Arepalli, P. Nikolaev, S. Jandl, and L. Yowell. "Enhanced Raman Microprobe Imaging of Single Wall Carbon Nanotubes," *Nanotechnology* 15.5 (2004): 562-67.

Presentations

Gorelik, O., P. Nikolaev, W. Holmes, V. Hadjiev, R. Devivar, and S. Arepalli. "Comparison of Purification Procedures for Carbon Nanotube Material," *Abstracts, American Chemical Society* 227 (March 28, 2004): U1250-U1250 124-IEC Part 1.

Nikolaev, P., S. Arepalli, O. Gorelik, V. Hadjiev, W. Holmes, B. Files, and L. Yowell. "Protocol for the Characterization of Single-Wall Carbon Nanotube Material Quality," *Abstracts, American Chemical Society* 227 (March 28, 2004): U1251-U1251 127-IEC Part 1.

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