DooGie Oh

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Profile

Education

2002 – present	Georgia Institute of Technology School of Chemistry and Biochemistry	*Ph.D Candidate*
1999 – 2001	Gwangju Institute of Science and Technology Department of Materials Science and Engineering	*Master of Science*
1993 – 1997	Hanyang University Department of Industrial Chemistry	*Bachelor of Science*

Work experience

2003 – present	Graduate Research Assistant, Georgia Tech, USA (DOE project: Electron collision with complex targets NSF project: Electronic devices from nanopatterned epitaxial graphite)
2002 – 2003	Graduate Teaching Assistant, Georgia Tech, USA (General chemistry lab)
1999 – 2000	Graduate Reaching Assistant, GIST, Korea (implementing optical amplification with plastic optical fiber)
1997 – 1998	Military Service

Awards and Honors

Fellowship from the Center for Nanoscience & Technology, Georgia Tech
(2003 – 2004, 2005 – 2006)

Capabilities

General spectroscopy	IR, Raman, and UV-Vis spectroscopy
Vacuum technology	Ultra high vacuum (UHV) system development for multi-motion sample holder with Quadropole masspectrometry and Auger electron spectroscopy

Computation skill	Development of multiple scattering theory based on Green's function method

Publications

1. Doogie Oh, Namwoong Song, and Jang-Joo Kim, "Plastic optical amplifier using europium complex", Proc. SPIE, **4282**, 1-8 (2001).
2. Thomas M. Orlando, Doogie Oh, Matthew T. Sieger, and Christopher D. Lane, "Electron collisions with complex targets: diffraction effects in stimulated desorption", Phys. Scr., **T110**, 256-261 (2004).
3. Doogie Oh, Matthew T. Sieger, and Thomas M. Orlando, "Zone specificity in low-energy electron stimulated desorption of Cl^+ from reconstructed Si(111)-7×7:Cl surfaces", Surf. Sci., **600(19)**, L245-L249 (2006).
4. Thomas M. Orlando, Doogie Oh, Yanchen Chen, and Alex B. Aleksandrov, "Low-energy electron diffraction and induced damage in hydrated DNA", in being submitted
5. Nikhil Sharma, Doogie Oh, Harry Abernathy, Melin Liu, Thomas M. Orlando, and Phillip N. First, "Raman scattering spectroscopy in epitaxial graphene", in preparation
6. Doogie Oh, Matthew T. Sieger, and Thomas M. Orlando, "Diffraction in electron-stimulated desorption of Cl^+ from Si(111)-1×1:Cl and Si(111)-7×7:Cl surfaces in preparation

Oral Presentations

1. Doogie Oh, Namwoong Song, and Jang-Joo Kim, "Plastic optical amplifier using europium complex" at Photonics West 2001: Integrated Optoelectronics, San Jose, CA, USA January 20, 2001
2. Doogie Oh and Thomas M. Orlando, "The role of diffraction in low-energy electron induced damage of DNA" at the 231st ACS National Meeting, Atlanta, GA, USA March 26-30, 2006
3. Doogie Oh, Harry Abernathy, Nikhil Sharma, Phillip N. First, Melin Liu, and Thomas M. Orlando, "Dissociative electron attachment induced growth of thin graphite films or graphene on Si(111)-7×7' at the AVS 54th International Symposium & Exhibition, Seattle, WA, USA October 14-19, 2007