

Speaker Profile



Contact Details

Organization

Name:
Korea Research
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Name Jeong-O Lee

Title Dr.

Institute Korea Research Institute of Chemical Technology

EDUCATION

- 3/98-8/01 Ph. D. in Experimental Condensed Matter Physics.
Supervisor: Prof. Ju-Jin Kim Chonbuk National University,
Chonju, Korea.
- 3/89-2/91 M. S. in Experimental Condensed Matter Physics.
Supervisor: Sung-Ik Lee
Pohang Institute of Science and Technology
Pohang, Korea.
- 3/85-2/89 B. S. in Physics Education
Ewha Womans University
Seoul, Korea.

EMPLOYMENT

- 10/03-present Senior researcher in Korea Research Institute of Chemical
Technology, Korea.
- 9/01-8/03 Postdoctoral fellow at department of Nanoscience, Delft
university of technology
- 3/98- 8/01 Research Assistant at Korea Research Institute of Standards
and Sciences, Daejon, Korea.
- 10/93-5/94 Research Assistant at University of Tokyo.
- 2/91-12/91 Researcher at Pohang Research Institute of Science and
Technology
- 3/89-2/91 Teaching Assistant at Pohang Institute of Science and
Technology

RESEARCH EXPERIENCES

Include experimental studies in the following areas

- 1) Electrical transport properties and magnetic properties of superconductor.
- 2) Electrical transport properties of percolation system.
- 3) Fabrication and characterization of metallic single electron transistor.
- 4) Electrical transport in carbon nanotubes and device applications.
- 5) Electrical transport study and device applications of the biomolecules .
- 6) Realization of molecular devices by SAM technique.

RESEARCH INTERESTS.

- 1) Quantum transport phenomena in mesoscopic systems.
- 2) Electrical transport properties and device applications of biological system.
- 3) Carbon nanotube-based device realizations. Chemical and biological sensors based on semiconducting single wall carbon nanotubes.
- 4) Lab on a Chip, factory on a chip studies.

