Self-Assembly of Chemical and Biological Sensors

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● DESCRIPTION OF WORK
  ■ Top-down microfabrication + bottom-up layer-by-layer assembly
  ■ Low power consumption
  ■ Miniaturization
  ■ Nanomaterial transducers

● MAJOR OBSERVATIONS
  ■ The electrochemical nature of LbL assembled SWNT film has been found
  ■ Glucose and normal rabbit IgG has been detected

● Publications
  ■ M. Lu, D. Lee, W. Xue, and T. Cui, IEEE MEMS 2008, p. 188
  ■ D. Lee and T. Cui, ICN+T conference presentation, July 22, 2008