

# Engineering DNA: from Structure to Application

## Research Topics

- Developing novel drug delivery system from DNA
- Studying biomolecular interaction at the single molecular level
- Fabricating of biocompatible biosensor
- Design of DNA-based nanostructures
- Investigating the optical properties of nanomaterials
- Integrating “top-down” lithography with “bottom-up” self-assembly nanofabrication techniques

## Contact Information

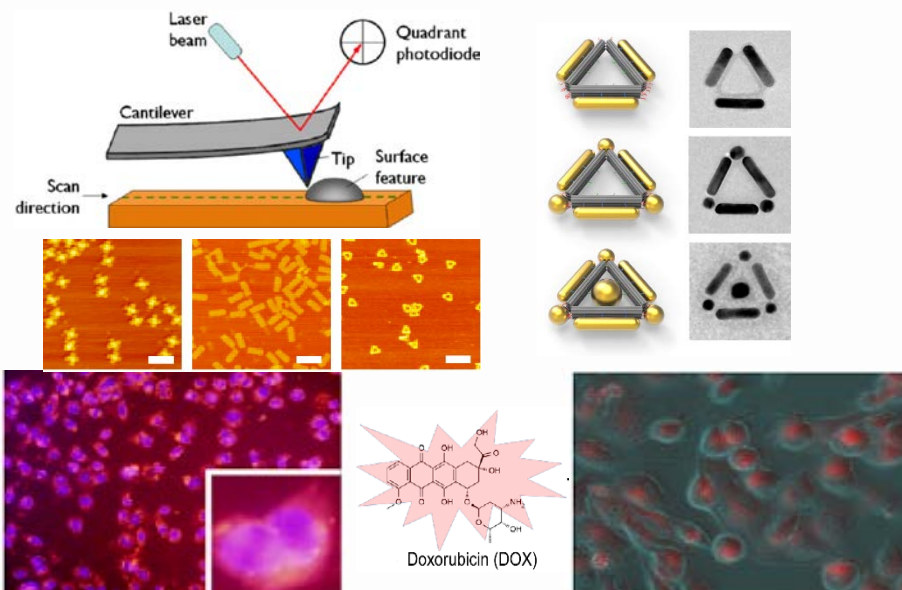
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## Biomaterial characterization and application in cancer therapy and biosensing

### Keywords

- DNA nanotechnology; Biomedical; Drug delivery; nanoparticles; Plasmonic metamolecules; Nanofabrication

### Significant Achievements

- Tappmeyer Excellence in Teaching, Chemistry of M S & T, publication @ Angewandte Chemie International Edition; Nano letter; Journal of the American Chemical Society et al.

### Potential Collaboration fields

- Cell biology; computer simulation; microfluidic devices; functional nanomaterials; nanofabrication, electrochemistry.