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Research Interest

Surface-enhanced Raman scattering (SERS) in cancer diagnosis, microorganism identification and molecular biology

Nanomedicine, Nanomaterials, Nanotoxicity and DNA nanotechnology

Biosensing, and single cell analysis

Boron nitride nanotubes (BNNTs) and its applications

Biography

Ph.D., 2002, Chemistry, University of Tennessee, Knoxville, TN, USA

M.S., 1997, Chemistry, Wake Forest University, Winston-Salem, NC, USA

B.S., 1990, Chemistry, Cukurova University, Adana, Turkey

Representative Publications

1- Kuku et al., "Surface-Enhanced Raman Scattering to evaluate nanomaterial cytotoxicity on living cells", *Anal. Chem.*, **2016**, 88 (19), pp 9813–9820.

2- Kalay et al., "Synthesis of boron nitride nanotubes from unprocessed colemanite" *Beilstein J Nanotechnol.* **2013**;4:843-51.

3- Sonay et al., "DNA-Mediated Self-Assembly of Single-Walled Carbon Nanotubes into Nanorings" *Small.* **2013**. doi: 10.1002/sml.201202804.

Courses

Fall: GBE 301 Biochemistry I, CHEM 215 Analytical Chemistry

BTEC 516 Introduction to Nanobiotechnology

Spring: GBE 301 Biochemistry I, CHEM 215 Analytical Chemistry

BTEC 640 Nanomedicine

Website: <http://nanobio.yeditepe.edu.tr>

