

CURRICULUM VITAE

CHAITANYA K DANDA

Graduate student
Department of Chemistry
University of Houston

CORRESPONDENCE

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Educational Qualifications

- Pursuing **Graduate studies** (1stYear), Department of Chemistry, University of Houston, TX – 77204.
- **MS** in Chemistry (Distinction), Devi Ahilya University, Indore, MP, India. (2002-2004).
- **BS** in Mathematics and Sciences, P.B.S. College of arts and sciences, Nagarjuna University, AP, India.

Scientific skills

- **Synthesis**-Synthesis of Noble and Magnetic metal nanoparticles bound with electro active ligands.
- **Composite Materials** – Polymers Composites with Nanoparticles through Electro chemical deposition.
- **Instrument Techniques** – XPS, NMR, TEM, UV-Vis/ Fluorescence, FTIR Spectroscopy.

Professional Affiliations

- Member of the American Chemical Society since 2005.

Fellowship

- Graduate Assistant Fellowship since fall 2005.

Professional Experience

- Research Assistant – Since May 2005.
- Teaching Assistant – From Aug 2005 to April 2006.

Research Interest:

Present

- Ligand Exchange reactions on the surface of gold nanoparticles, affinity towards chain length and functionalization. (Thiol and Carboxylic acid).
- Polymer composite thin films with Gold nanoparticles and their applicability in Memory devices.
- Dendron encapsulated Gold Nanoparticles terminated by electro active moieties, energy transfer and size distributions with different generations (Carboxylic acid and Amine).

Previous (MS)

- “Synthesis, characterization and optical studies of magnetic Core-Shell nanoparticles and their assemblies at air-water interface.” With Dr Sastry M and Dr Prasad B.L.V, Nano Science Group, NCL, Pune, India.
- “Synthesis and characterization of LaCoO_3 and TiO_2 nanoparticles.” With Dr Sathe V.G. at IUC for DAEF, Indore, MP, India.

Poster/ Publications:

- Presented a poster on “Direct and ligand Exchange reactions for Synthesis of Gold Nanoparticles using Poly (benzyl-ether) ligands.”