**Skills & expertise:**

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- Carbon  nanostructures (such as carbon nanotube and graphene) synthesis by chemical
  vapor deposition method (CVD)
- Carbon  nanotube functionalization
- Polyaniline  synthesis (ranging from conducting – semiconducting- insulator)
- Carbon  nanotube/ polyaniline nanocomposite synthesis
- Polyurethane  foam synthesis
- Electrical  conductivity measurement (two probe method)
- Polymeric membrane synthesis  (by phase inversion method) and performance testing