Our group specializes in optical and electrical characterization and optimization of electronic and photonic materials and devices including uncooled photodetectors, photovoltaics and light-emitting diodes for the mid-infrared, and the development of infrared and terahertz (THz) sensors for environmental and medical applications. Our research encompasses optical and terahertz spectroscopy of biological macromolecules, thin film electronic materials and structures; the investigation of density of localized states and degradation phenomena in amorphous and polycrystalline silicon thin film transistors and photovoltaics.

"Developing terahertz spectroscopy to be used for the study of bio-materials."