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### **Areas of Expertise and Research Interest**

#### Areas of Expertise:

- Differential Scanning Calorimetry (DSC)
- Thermogravimetric Analysis (TGA)
- Isothermal Titration Calorimetry
- BET adsorption/desorption
- Polarized-light microscopy
- Particle Size Analysis
- Non-isothermal solid-state reaction kinetics

#### Research Interests:

- Crystal forms, solid-solutions and polymeric films produced by hot-melt extrusion.
- Novel technology for oral, buccal or transmucosal drug delivery systems.
- Physicochemical characterization of solids including crystal forms, solid-solutions and polymers.
- Thermodynamics/development of admicelles and adsolubilization as delivery platforms.