Objective: Quantitative evaluation of flow field inside a droplet evaporating on a heated hydrophobic and superhydrophobic substrate.

Approach:
- Use PIV technique for accurate estimation of flow field inside the droplet during evaporation.
- Evaluation of the effect of substrate temperature and droplet size on the convective flow.
- Implementation of image correction to account for distortion of velocity vectors due to lens effect of the droplet.

Impact:
- Better understanding of evaporation induced mixing in droplets.
- Determining the relationship between flow behavior and particle deposition.

Selected Publications: