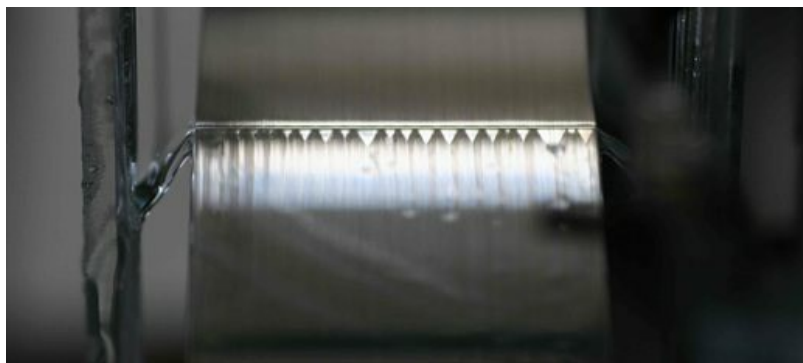


Research



Our research output falls largely into four main categories.

Surface tension driven flows

- Coalescence and break-up
- Control of two-phase flows in micro-environments
- Development of serial multiphase capillary high through experimentation reactors

Chemically reacting flows

- Surface-catalysed reactions in structured gas phase reactors
- Surface-catalysed reactions in three-phase structured reactors
- Optimisation of solid oxide fuel cells (SOFCs)

Microfluidics

- Reacting flows in microchannels
- Control of two-phase flow in micro fuel cells
- Instability and vibration in micro-fuel cells
- Linear dichroism for detection of biomolecular structure

Simulation and visualisation

- Computational models
- Algorithmic development
- Visualisation

