

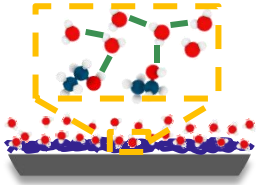
# Molecular & Surface Chemical Engineering

## Theory of confined transfer

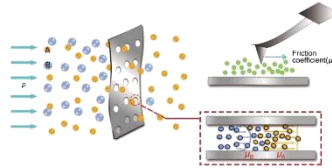
Molecular thermodynamics    Non-equilibrium thermodynamics



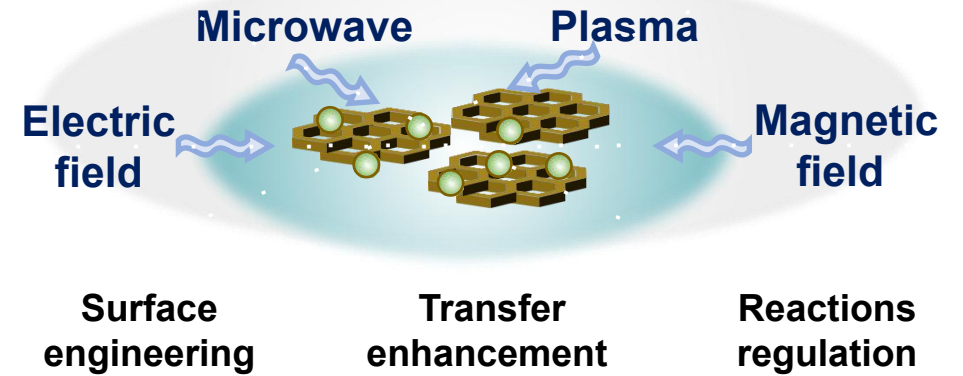
Confined fluid microstructure & fluid properties



Confined flow resistance & transfer flux

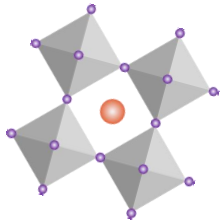


## External field technologies



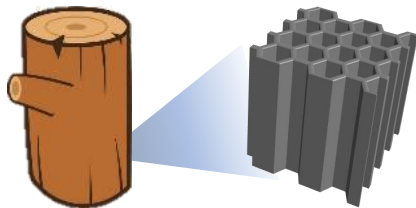
## Materials Design & Application

Inorganic materials



$K_2O \cdot nTiO_2$  whiskers,  $TiO_2$ , etc.

Functional carbon materials



Catalysis, adsorption, etc.

Composite materials



Self-lubricating, sealing, etc.

Molecular Thermodynamics

Surface Chemical Engineering

External Field Technologies

Materials Design & Application