

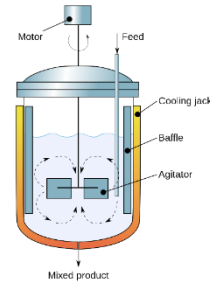
Modelling the viscosity of Complex Fluids

Junju Mu, Carlos Avendaño, Christopher Hardacre

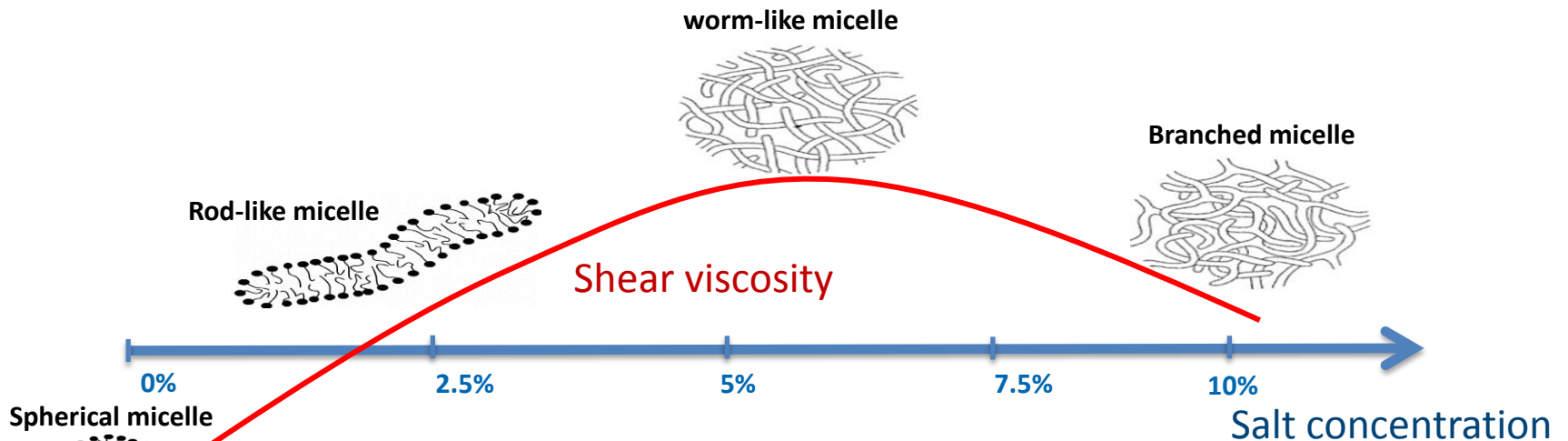
Department of Chemical Engineering & Analytical Sciences,
The University of Manchester

Viscosity matters ... However, hard to predict!

For example, shampoos ... both in **manufacturing process** and **customer experience**



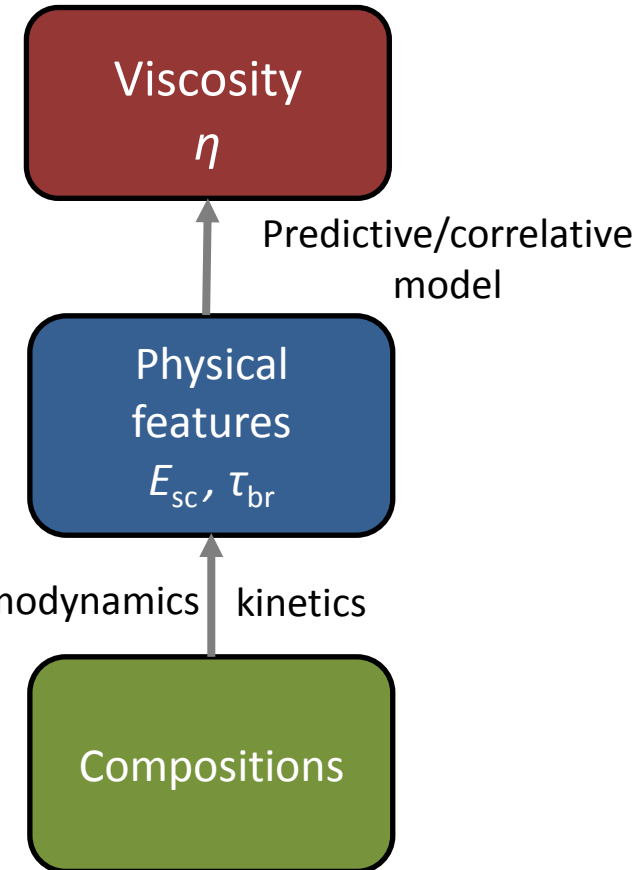
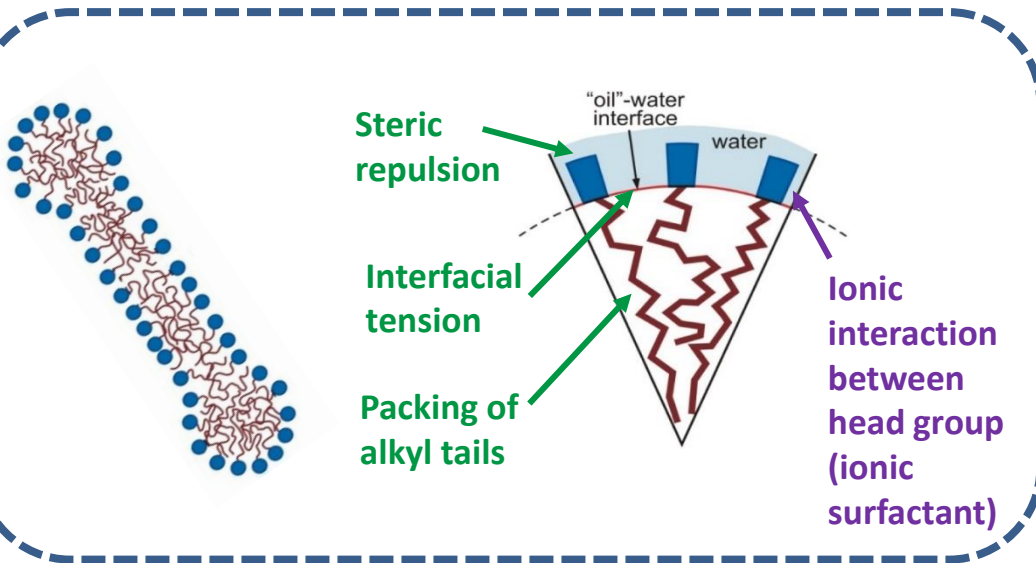
Viscosity affected by morphology, which changes dramatically with compositions.



Partially adapted from Salarian *et al.* (*Materials Science-Poland*, 2009, 27(4/1))

The idea of a new viscosity model

Based on the thermodynamics and morphology of the microscopic structure.



Come to my poster !