

Supporting Information

Self-assembly and phase behaviour of PEI:cationic surfactant aqueous mixtures forming mesostructured films at the air/solution interface

Hansel Comas-Rojas,^a Carlos Enríquez-Victorero,^a Stephen J. Roser,^b Karen J. Edler*^b
and Aurora Pérez-Gramatges^{a‡}

Figure S1. Surface tension profiles of the surfactants CPC, CPB and CTAB

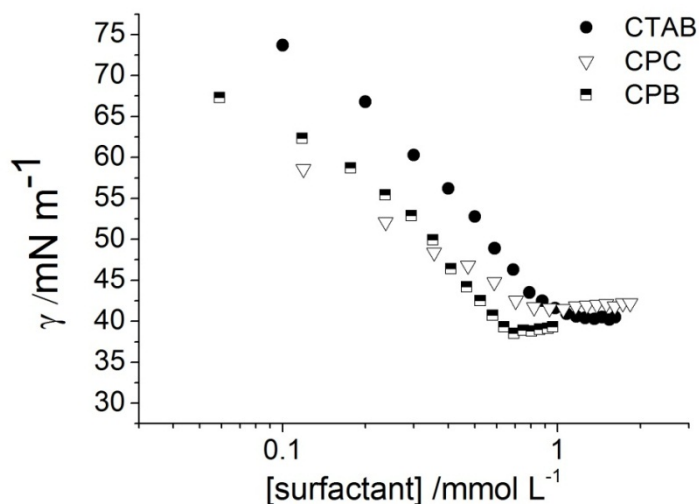


Figure S2. Surface tension profile of polyelectrolyte PEI

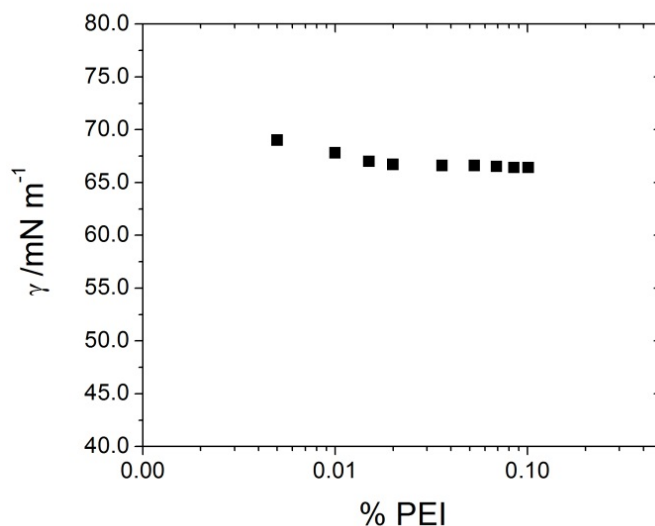


Figure S3. Surface tension profile of the 0.5% PEI:CTAB mixture from direct measurements at pre-mixed compositions.

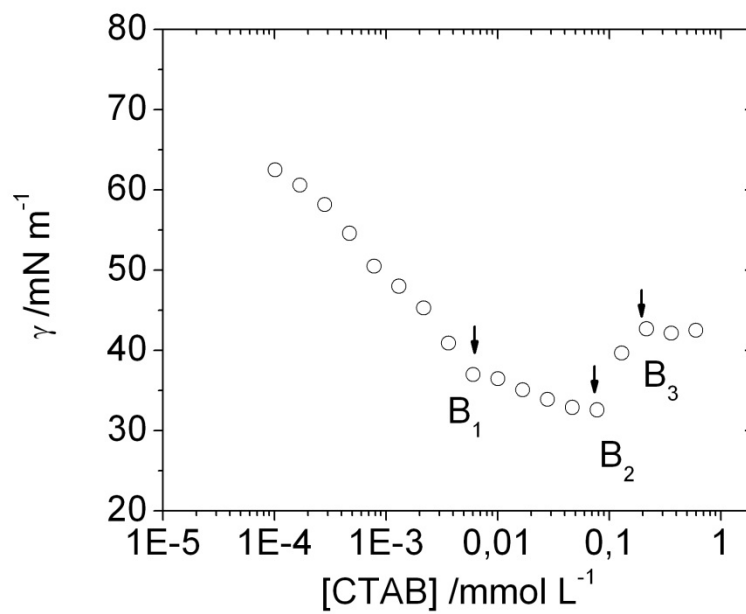


Figure S4. Surface tension profiles at several % PEI of the surfactants CPC, CPB and CTAB. Pure surfactants (filled squares), 0.1% (empty inverted triangle), 0.5% (empty triangle) and 1.0% (empty circle).

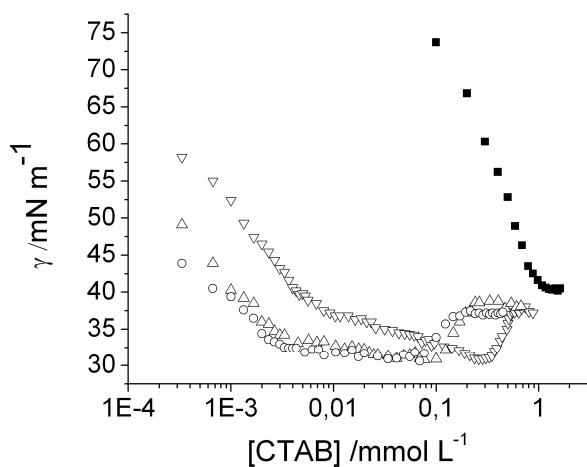
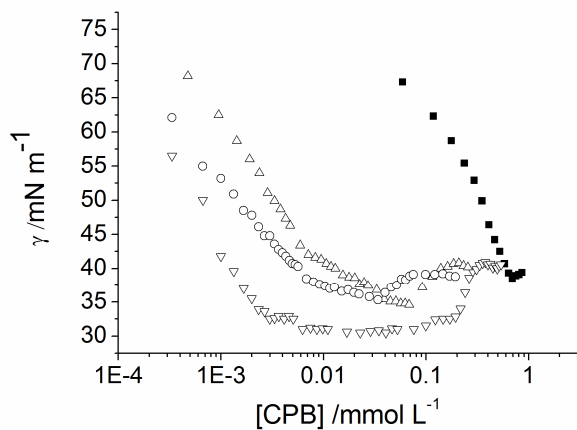
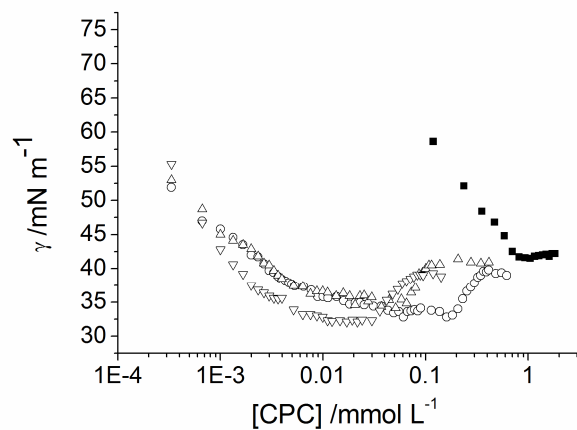


Figure S5. Small angle X-ray scattering (SAXS) profiles and corresponding fittings of the bulk solutions of CPC and CPB surfactants. Compositions were 0.005 and 0.1 mmol L⁻¹ at 0.5% PEI. Data is shown by lines and + markers, solid lines represent the model fitted.

