

Facile Fabrication of Sudan Red Particle Microcapsules by Polymerizable Gemini Surfactant and Molecular Assembly Mechanisms

Yaqian Wu,^{ab} Haike Yan,^a Xuefeng Shi^{*a} and Jinben Wang^{*a}

^aBeijing National Laboratory for Molecular Sciences, Key Laboratory of Colloid, Interface and Chemical Thermodynamics, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, P. R. China.

^bUniversity of Chinese Academy of Sciences, Beijing 100049, P. R. China

* To whom correspondence should be addressed.

E-mail: jbwang@iccas.ac.cn. Tel: 86-10-62523395. Fax: 86-10-62523395.

E-mail: xfshi@iccas.ac.cn; Tel: +86-10-62652659. Fax: +86-10-62523395.

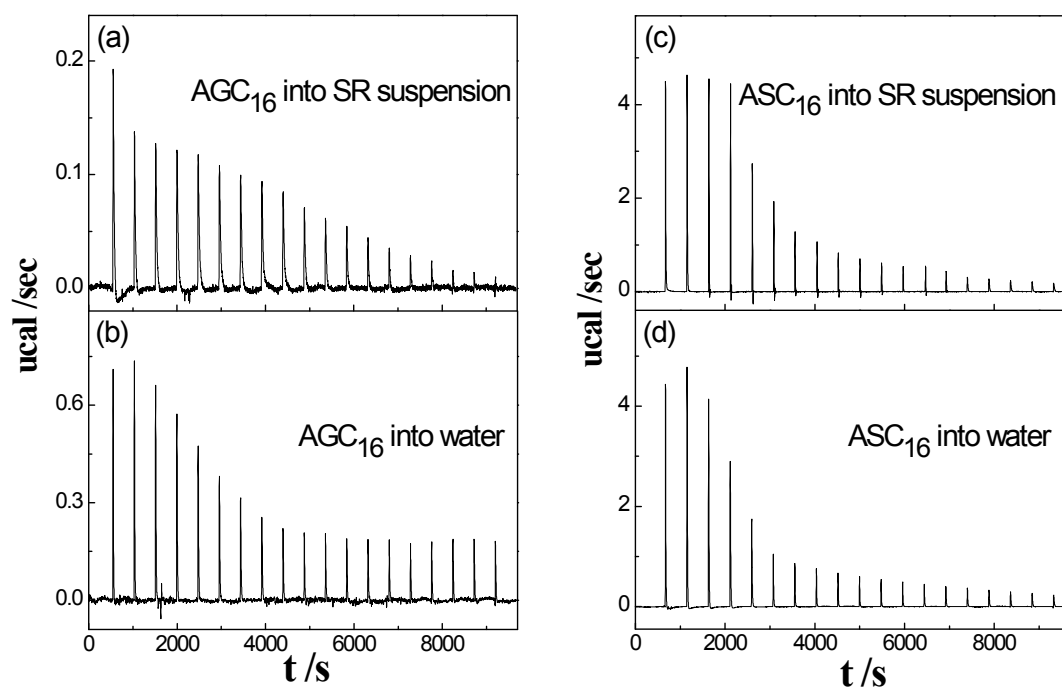


Fig. S1 The ITC data for the adsorption of (a-b) AGC₁₆ and (c-d) ASC₁₆.

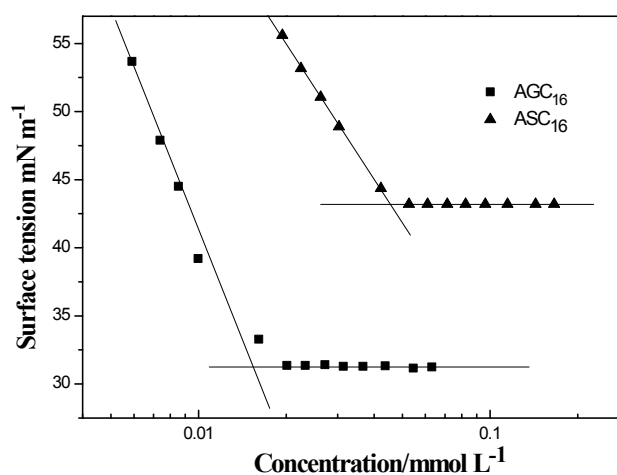


Fig. S2 Plot of static surface tension versus log of the bulk concentration for AGC₁₆ and ASC₁₆ at 25°C.

Table S1 The CMC of AGC₁₆ and ASC₁₆ at 25 °C.

surfactant	AGC ₁₆ (mM)	ASC ₁₆ (mM)
cmc	0.015	0.0455

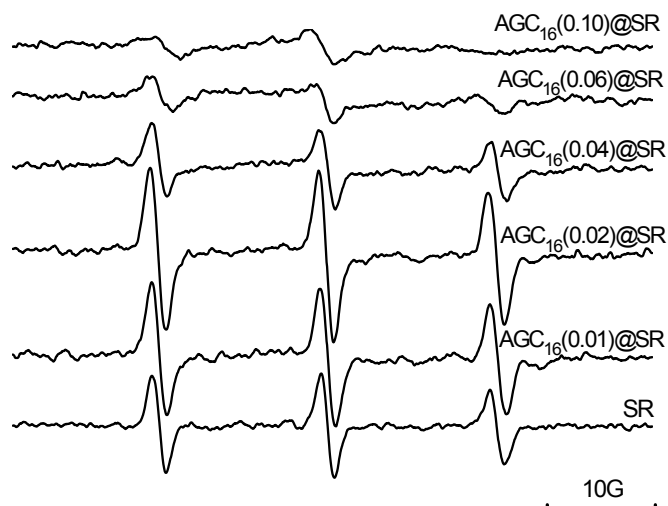


Fig. S3 The EPR spectra of 16-DS in different concentration of AGC₁₆.

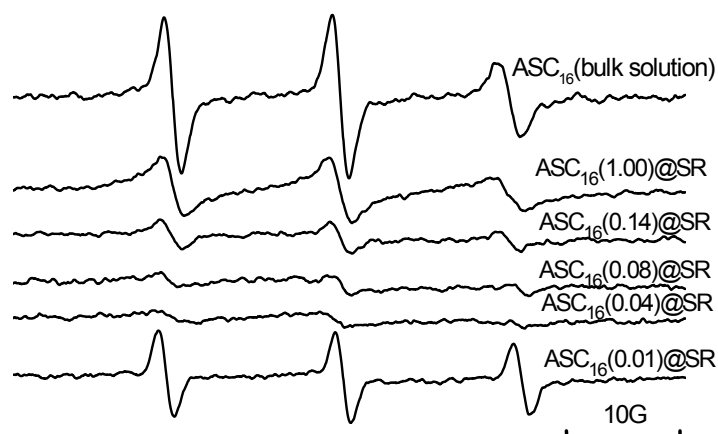


Fig. S4 The EPR spectra of 16-DS in different concentration of ASC₁₆.

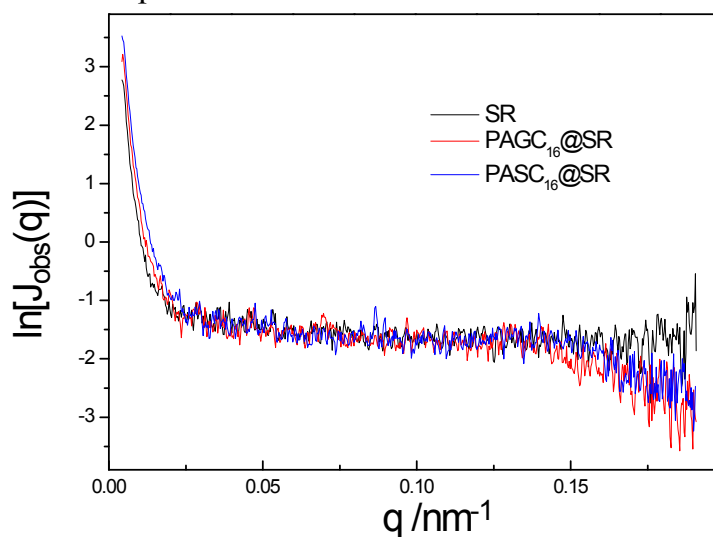


Fig. S5 The $\ln[J_{\text{obs}}(q)]$ vs q plot of SAXS curves of SR, PASC₁₆@SR and PAGC₁₆@SR.

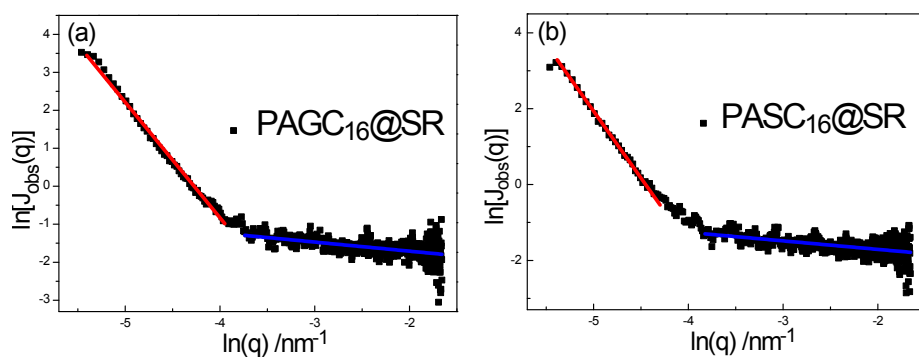


Fig. S6 The linear fit curve of ln-ln plot for (a) $\text{PAGC}_{16}@\text{SR}$ (b) $\text{PASC}_{16}@\text{SR}$ based on SAXS data.

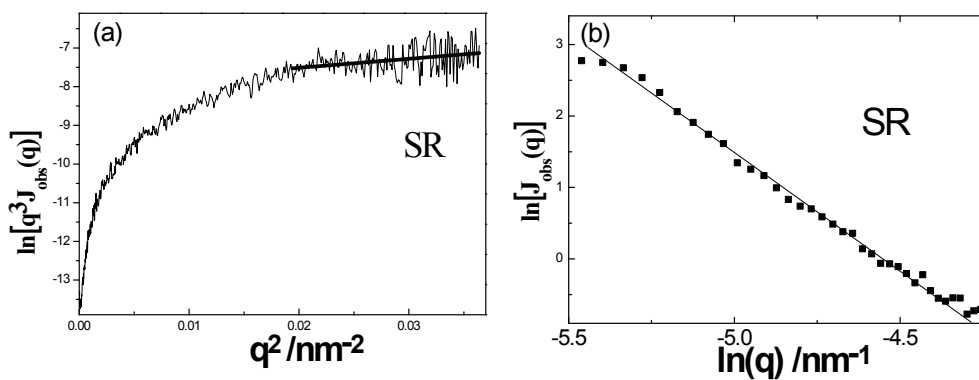


Fig. S7 The linear fit curve of porod plot(a) and ln-ln plot (b) for SR.