

Supplementary Information

Aggregate-based sub-CMC Solubilization of Hexadecane by Surfactants

Hua Zhong^{1,2,3*}, Lei Yang^{1,2}, Guangming Zeng^{1,2}, Mark L. Brusseau³, Yake Wang³,
Yang Li⁴, Zhifeng Liu^{1,2}, Xingzhong Yuan^{1,2}, Fei Tan^{1,2}

¹ College of Environmental Science and Engineering, Hunan University, Changsha
410082, China;

² Key Laboratory of Environmental Biology and Pollution Control (Hunan
University), Ministry of Education, Changsha, 410082, China;

³ Department of Soil, Water and Environmental Science, University of Arizona,
Tucson, Arizona 85721, U.S.A;

⁴ Department of Chemistry, University of Science and Technology of China, Hefei,
230026, China.

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* Corresponding author at: Department of Soil, Water and Environmental Science, University of Arizona, Tucson, AZ 85721, U.S.A. Tel.: +01-520-626-4191; E-mail address: zhonghua@hnu.edu.cn; zhonghua@email.arizona.edu (H. Zhong).

Table S1. Concentration of hexadecane solubilized by 50 μM SDBS or 25 μM Triton X-100 before and after standing for 48 hours

| Surfactants | $C_{\text{Hexa.}}, \mu\text{M}$ | |
|--------------|---------------------------------|----------------|
| | 0d | 48 h |
| SDBS | 11.4 \pm 2.3 | 11.0 \pm 1.6 |
| Triton X-100 | 8.4 \pm 1.8 | 7.3 \pm 2.9 |

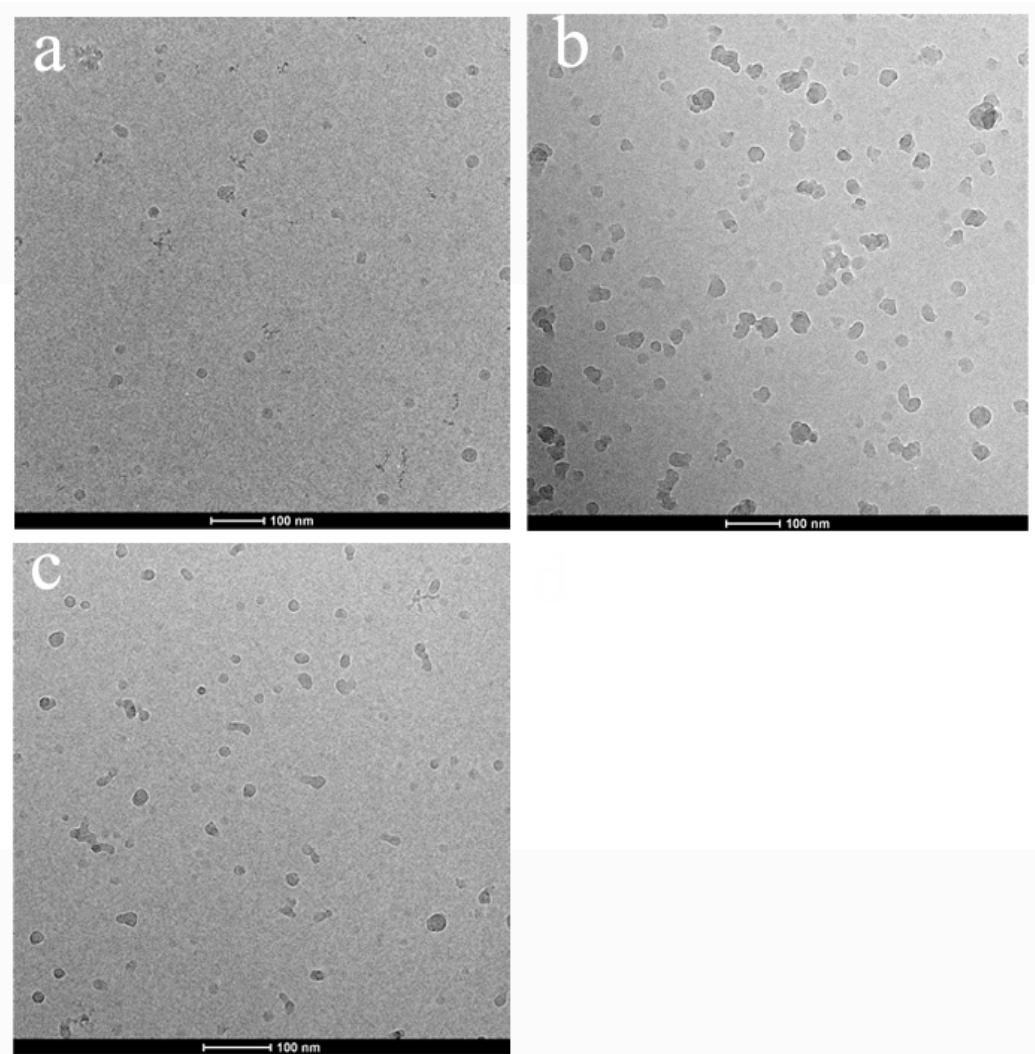


Figure S1. Cryogenic-transmission electron microscopy (cryo-TEM) images showing hexadecane-surfactant aggregates formed in PBS with (a) 25 μM Triton X-100, (b) 1500 μM Triton X-100, and (c) 5000 μM SDBS. Note aggregates overlap in (b) due to the high surfactant concentration.

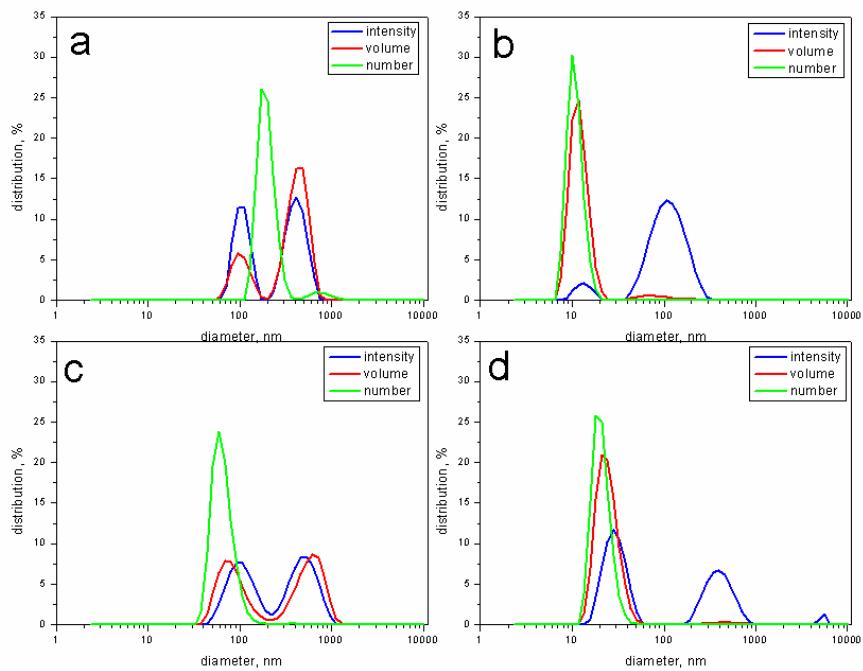
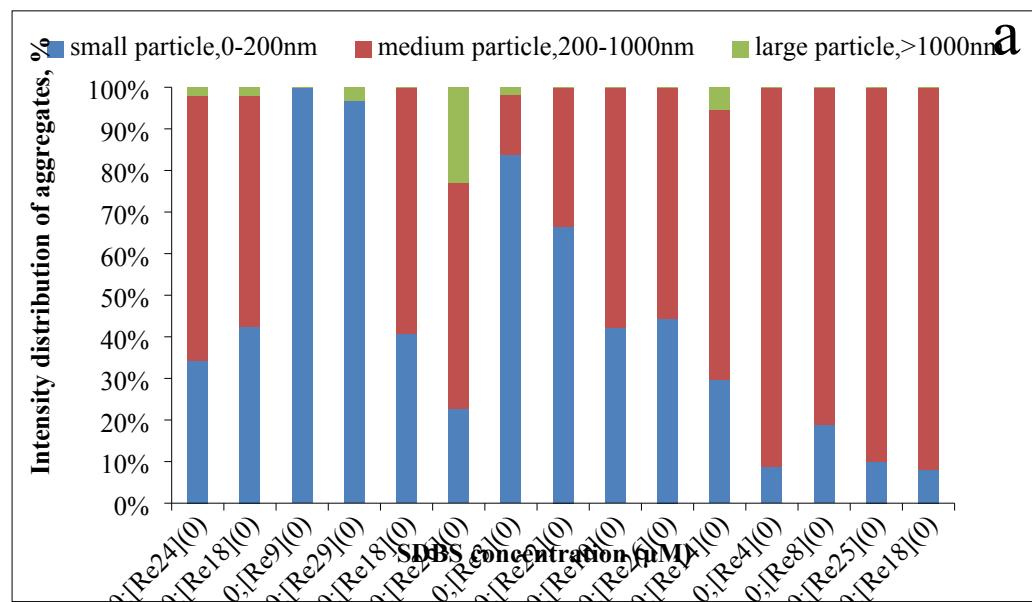
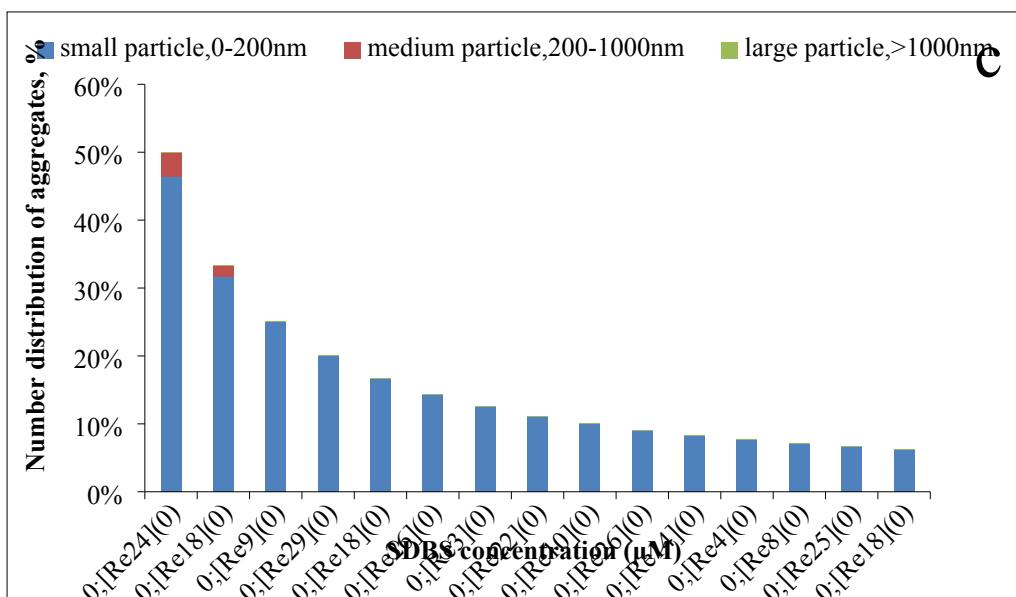
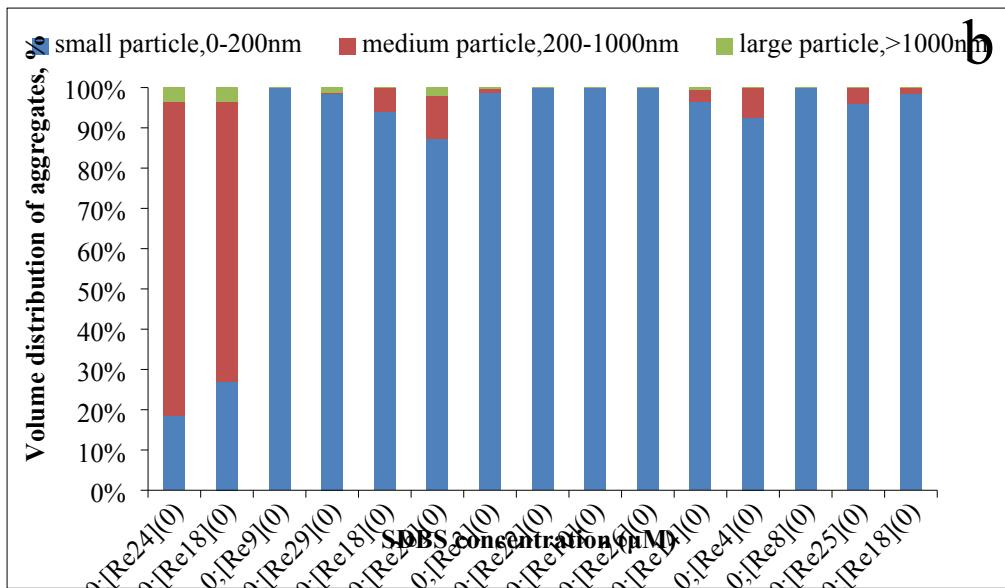
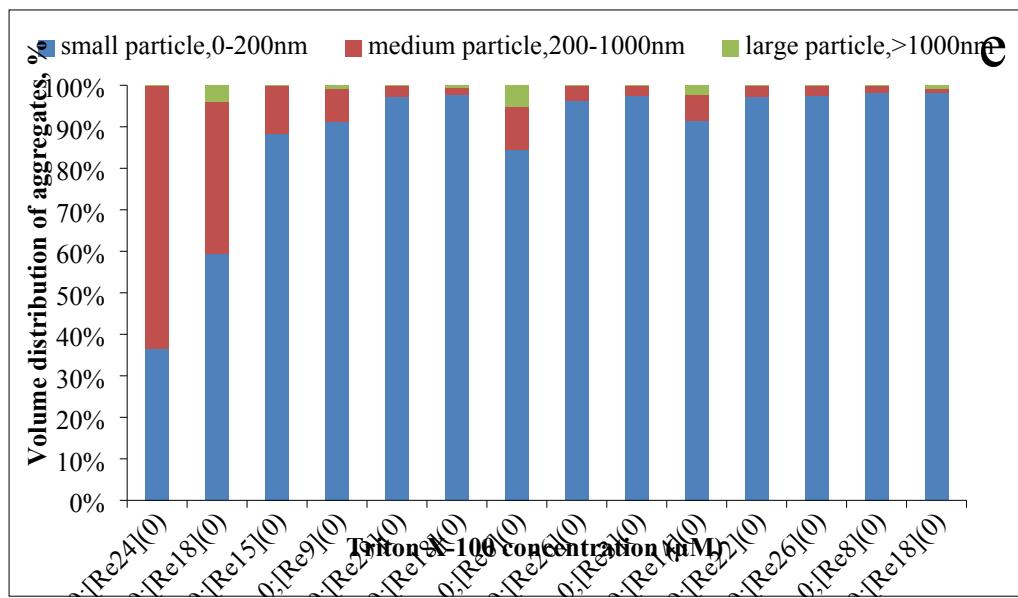
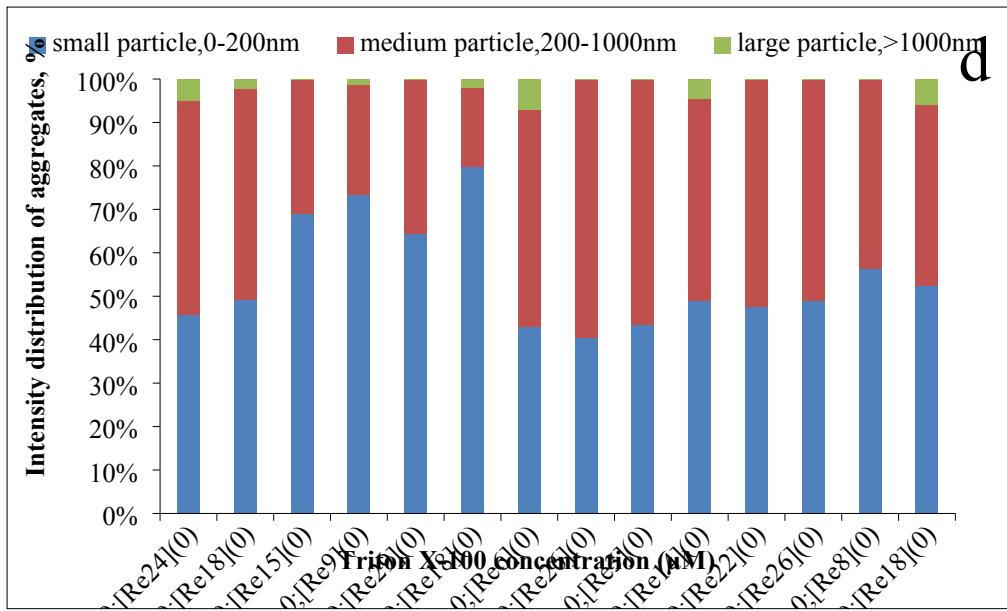


Figure S2. Intensity, volume and number distribution of aggregates in hexadecane-surfactant solution for (a) 50 μ M SDBS, (b) 5000 μ M SDBS, (c) 25 μ M Triton X-100, and (d) 1500 μ M Triton X-100







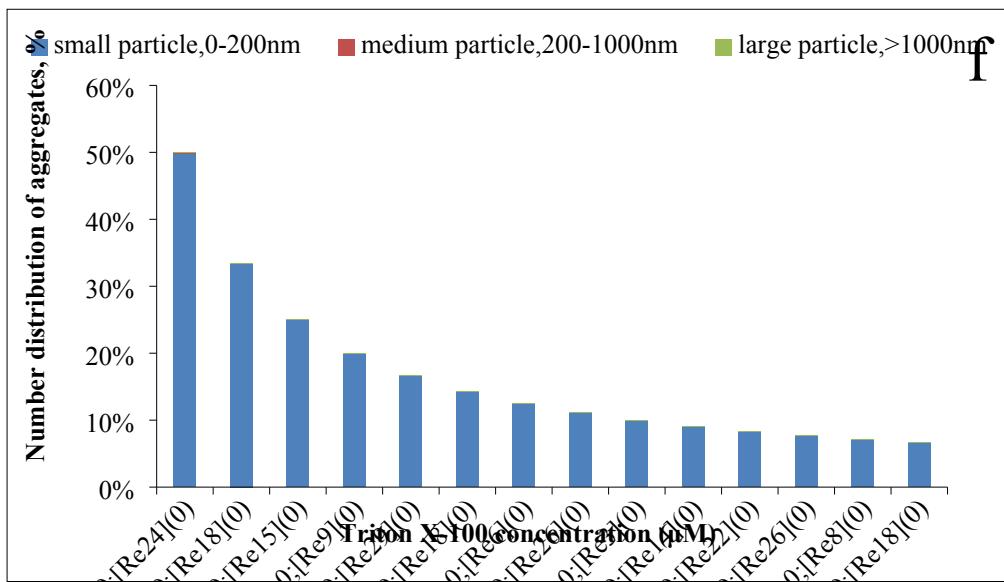


Figure S3. Intensity, volume and number distribution of hexadecane-SDBS aggregates (a, b and c) and hexadecane-Triton X-100 aggregates (d, e and f) measured using DLS method.