

Supporting Information

Investigations on the Effect of Fatty Acid Additives on Casein Micelles: Role of Ethylenic Unsaturation on the Interaction and Structural Diversity

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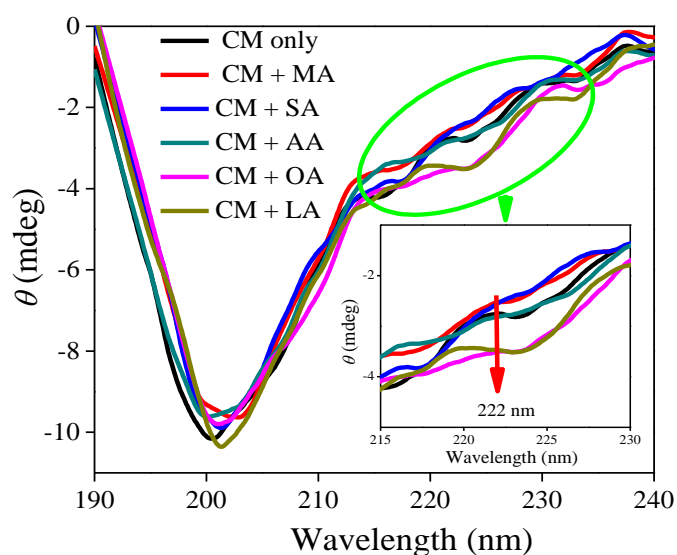


Figure S1. Far-UV CD spectra of the CMs (0.1 mg ml^{-1}) in presence of different fatty acids ($50 \mu\text{M}$) at 298K.

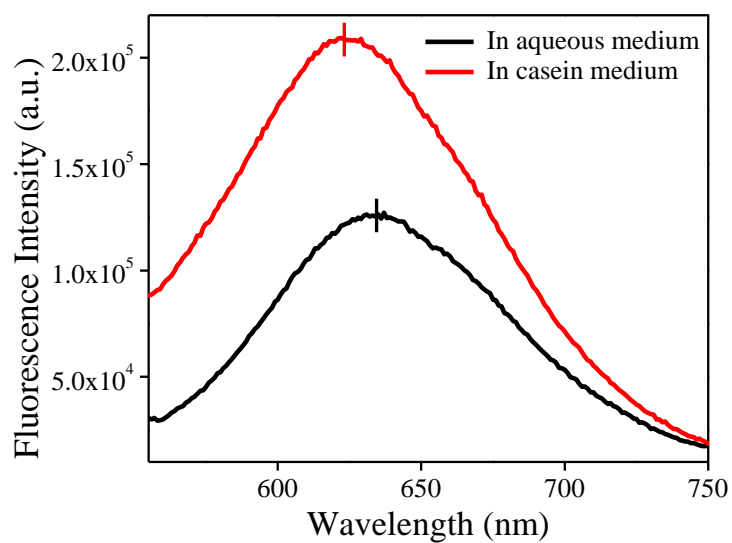


Figure S2. Fluorescence spectra of DCM (5 μM) in the absence and presence of CMs (0.05 mg ml^{-1}) at 298 K.

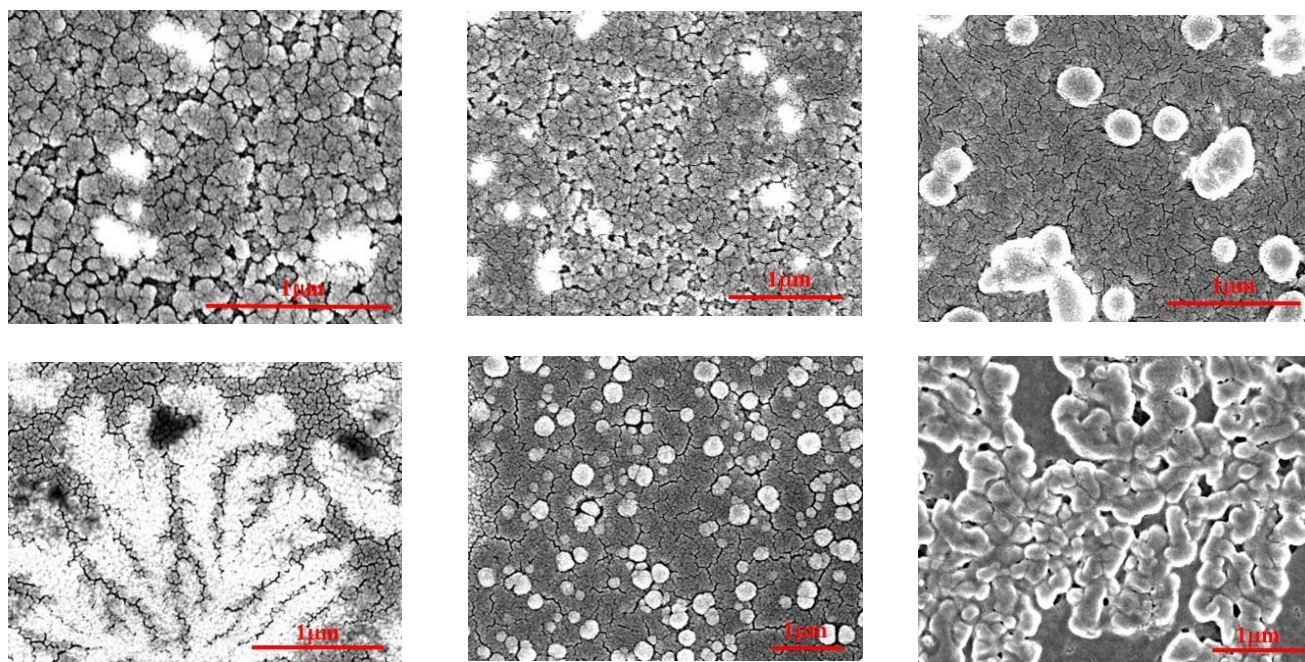


Figure S3. FESEM images of CMs (0.05 mg ml^{-1}) (a) in the absence of fatty acids and presence of (b) MA, (c) SA, (d) AA, (e) OA, and (f) LA (50 μM).

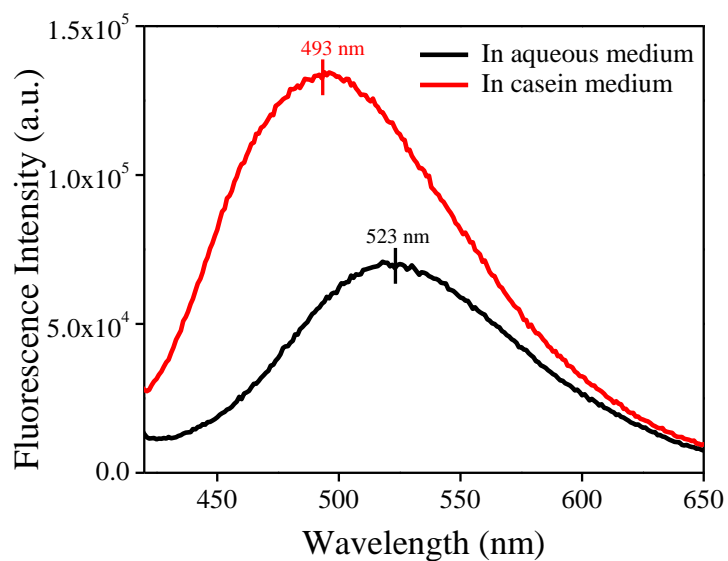


Figure S4. Fluorescence spectra of ANS ($5 \mu\text{M}$) in the absence and presence of CMs (0.05 mg ml^{-1}) at 298 K.

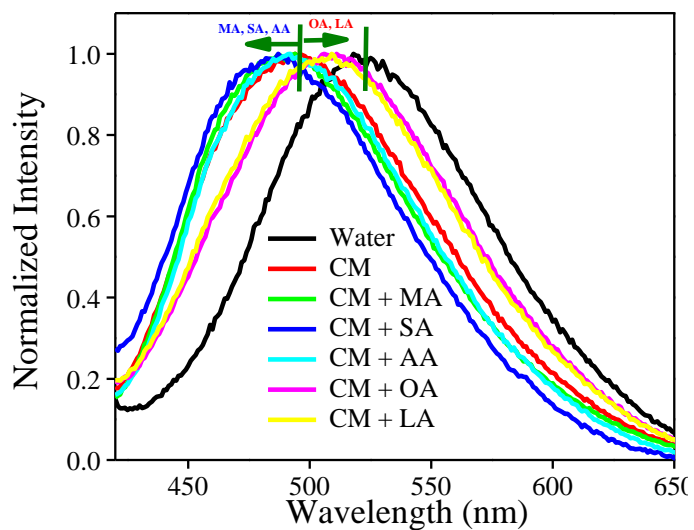


Figure S5. Normalized fluorescence spectra of ANS ($5 \mu\text{M}$) after addition of various fatty acids ($50 \mu\text{M}$) in the CMs (0.05 mg ml^{-1}) at 298 K.

Table S1. Translational diffusion parameter of DCM in water, CMs, and in the presence of different fatty acid with CMs

System	D_{11} ($\mu\text{m}^2 \text{s}^{-1}$)	D_{12} ($\mu\text{m}^2 \text{s}^{-1}$)
Water	302.78	-
CM	302.78 (0.87)	24.01 (0.13)
CM + MA	302.78 (0.88)	20.23 (0.12)
CM + SA	302.78 (0.84)	19.73 (0.16)
CM + AA	302.78 (0.87)	18.32 (0.13)
CM + OA	302.78 (0.70)	13.10 (0.30)
CM + LA	302.78 (0.74)	14.41 (0.26)