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Supporting Information for

Let There be Light: Stability of Palmitic Acid Monolayers at the Air/Salt Water Interface in the Presence and Absence of Solar Light and a Photosensitizer

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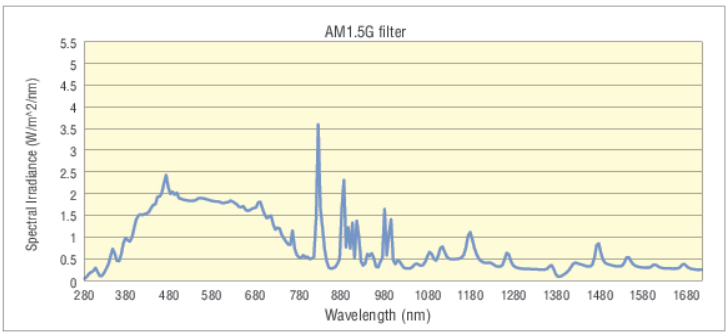

Figure S1. Spectral output of LCS-100 Solar Simulator with standard AM1.5G filter. The graph is from Reference 1.

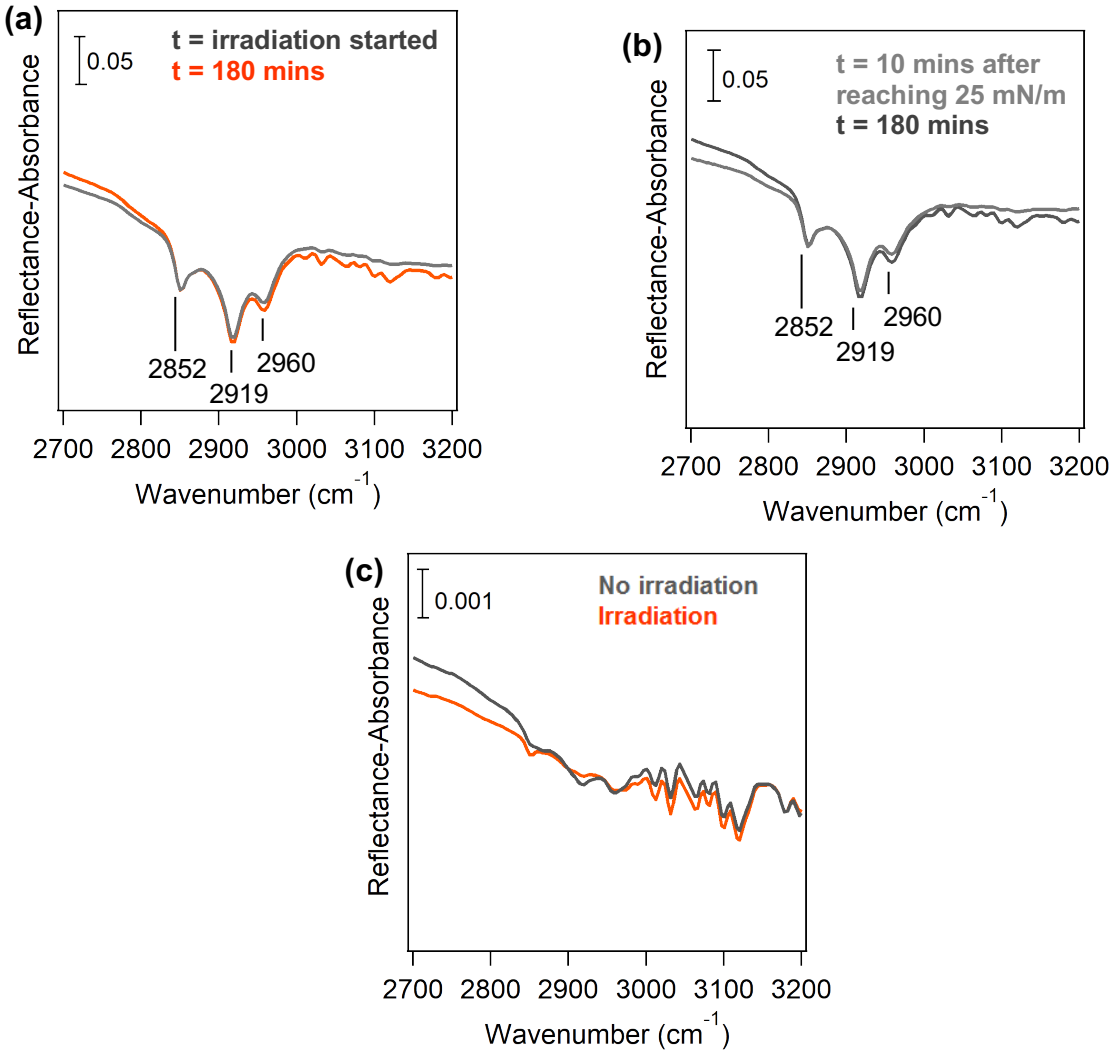

Figure S2. IRRAS spectra collected for palmitic acid monolayer on the mixture of salt in humic acid for (**a**) irradiation, (**b**) dark experiments and (**c**) difference spectra (t=180 mins – t= beginning of irradiation or 10 mins after monolayer was held) obtained for irradiation and non-irradiation experiments.

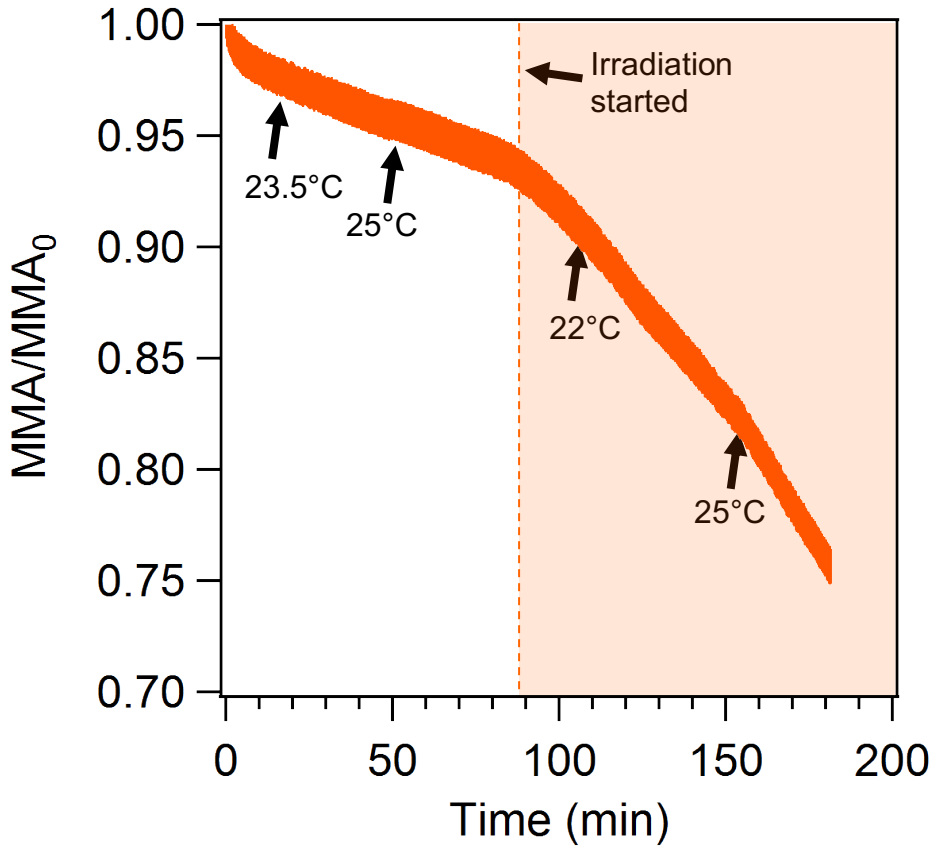

Figure S3. Temperature control stability experiment conducted at various temperatures with and without irradiation. The starting temperature was 22°C.

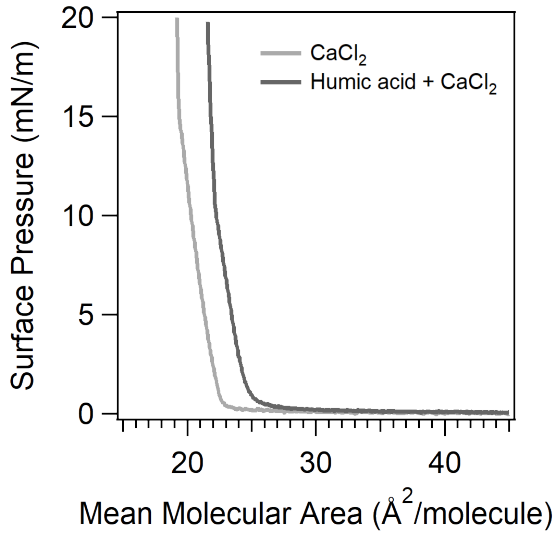

Figure S4. Isotherms of palmitic acid monolayer on $CaCl_2$ and humic acid with $CaCl_2$ up to a surface pressure of 20 mN/m.

The data set supporting this manuscript is hosted by the UCSD Library Digital Collections (https://doi.org/10.6075/J0ZS2TPQ)

References

1. Newport. Small Area Simulators. https://www.newport.com/f/small-area-solar-simulators (Accessed 01/19/2018).