

## Metal-free Functionalized Carbonized Cotton for Efficient Solar Steam Generation and Wastewater Treatment

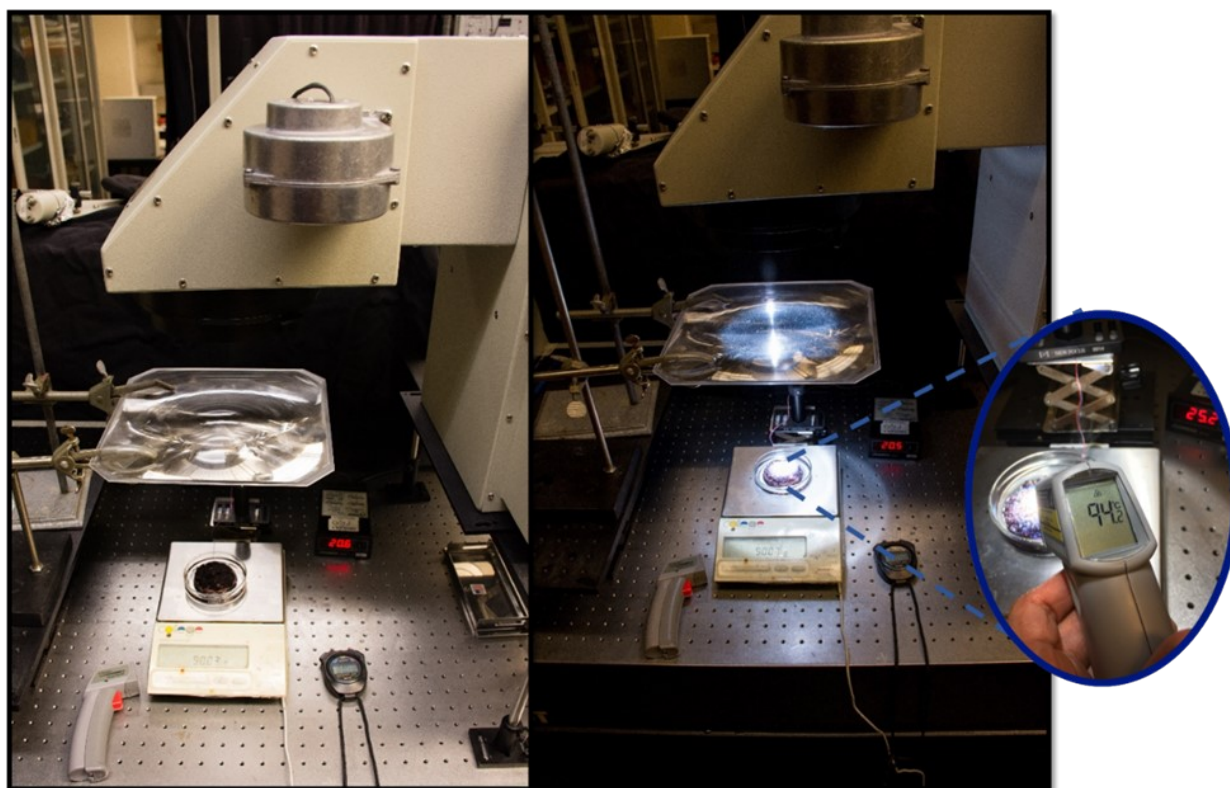
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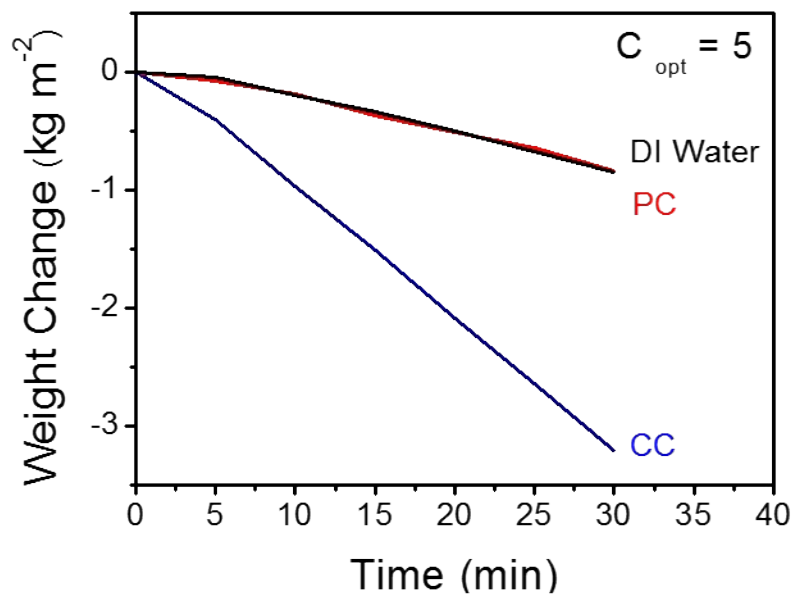
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### Supplementary Material



**Figure S1.** Experimental set up for the solar steam generation. Left panel shows the solar simulator switched off and the right panel shows the solar simulator switched on. Magnified image shows the surface temperature increased to 94 °C while the bulk temperature remained around 25 °C.



**Figure S2.** Solar steam generation rate of CC, PC and DI water at a solar intensity of 5 kW m<sup>-2</sup> (5 sun).