Applying thermo-destabilization of microemulsions as a new method for co-catalyst loading on mesoporous polymeric carbon nitride – towards large scale applications

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Supporting Information:

Fig. S1: Filtered reaction solutions a) after in-situ photoreduction of Pt on mp-CN for various initial platinum concentrations (black NPs are visible) and b) after photocatalytic reaction with ex-situ prepared Pt@mp-CN (no NPs are visible and the yellowish color is due to TEOA)
Fig. S2: a) XRD pattern; b) UV-Vis reflectance spectra; c) Nitrogen sorption isotherm; d) Pore size distribution of CN-6 sample.

Fig. S3: Energy-dispersive X-ray (EDX) spectrogram of *ex-situ* Pt loaded mp-CN directly after synthesis via microemulsion approach.
Fig. S4: Absorption of irradiated light by a quartz glass window and by a polycarbonate window of the same thickness
Fig. S5: Small scale hydrogen evolution setup with a) a glass burette for visible hydrogen quantification, b) a small glass reactor with catalyst suspension and c) a stirrer for keeping the suspension