

Supplementary Information

Table S1: Elemental analyses of the carbon nitride materials.

Sample code	% C	% N	% H	Residue
CN-3	32.02	54.76	2.43	10.79
CN-6	34.00	56.72	2.03	7.25
CN-12	33.30	57.75	1.96	6.99

Figure S1: Films of the dicyanamide/TEOS derived composites as prepared and after thermal treatment at 80°C.

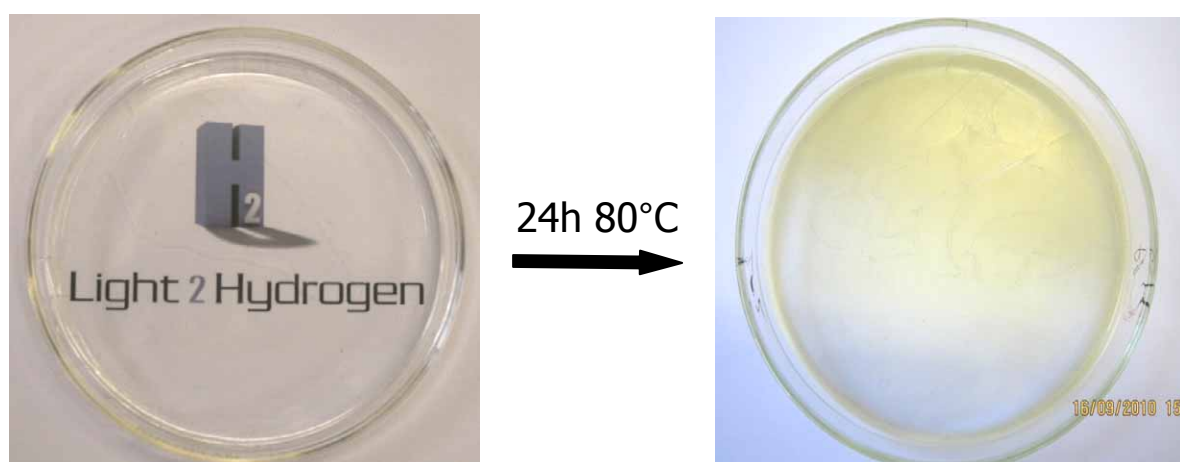


Figure S2: TGA curves of the carbon nitride-silica composites.

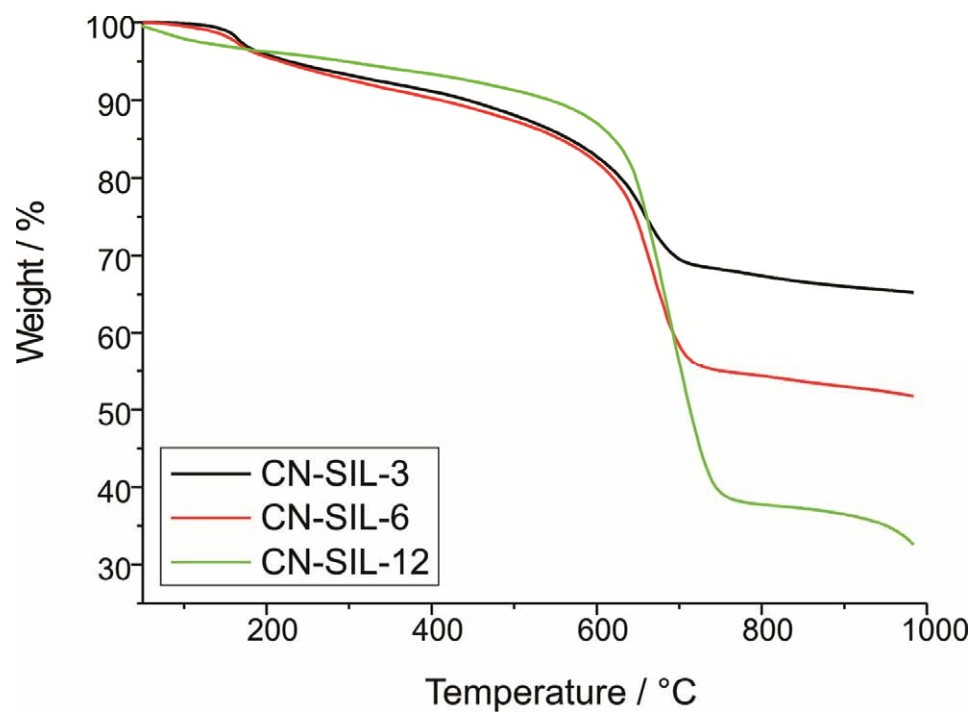


Figure S3: Nitrogen sorption isotherms and pore size distribution for the carbon nitride-silica composites.

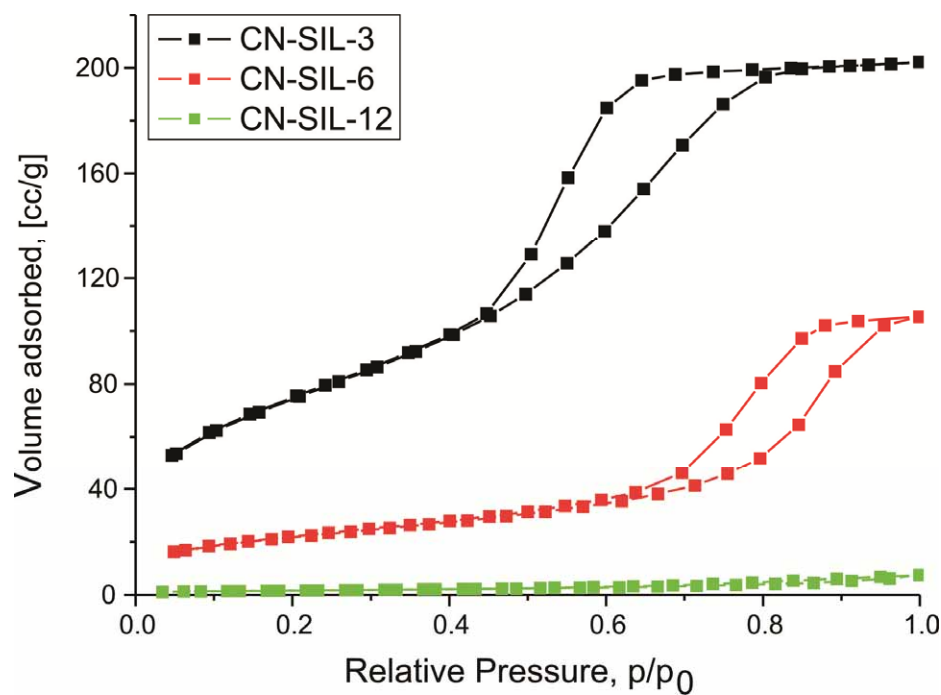


Figure S4: Hydrogen production monitored by automatic gas burettes (Table 2, entry 1, 6-9).

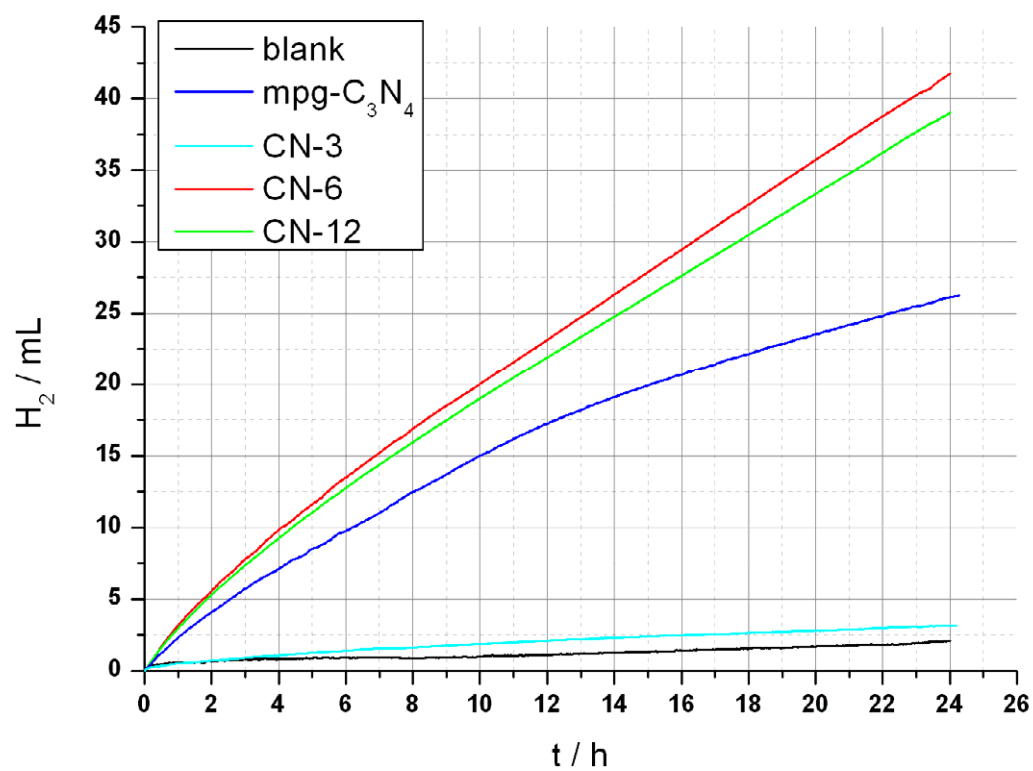


Figure S5: Recycling experiment with addition of 10 mg K_2PtCl_6 after the first run: Conditions: 50 mg CN-6, 10 mg K_2PtCl_6 , 18 ml H_2O , 2 ml TEOA, Xe light source 1.5 W/cm^2 light output, 396 nm cut-off filter.

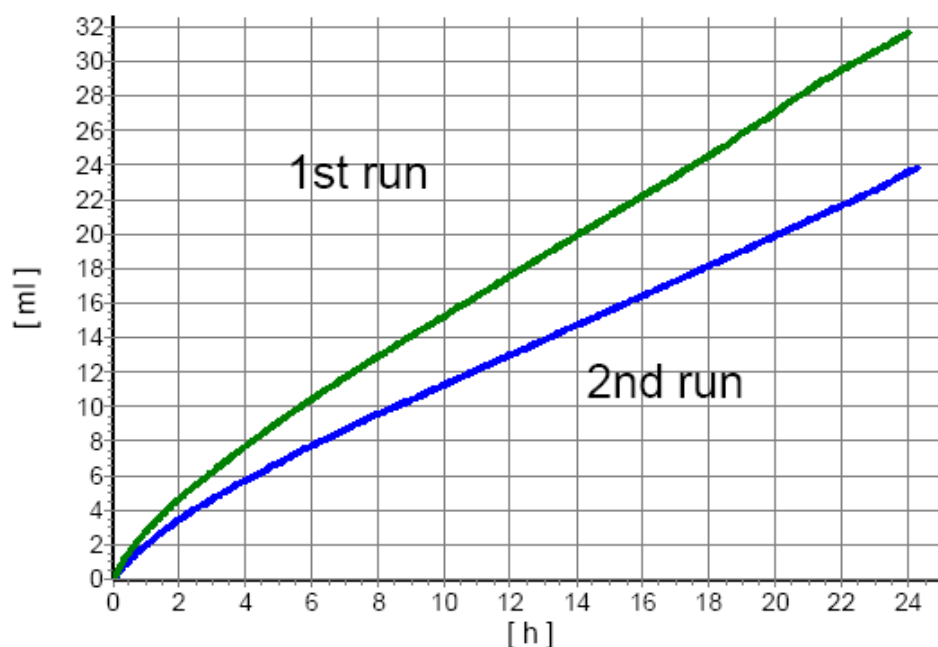


Figure S6: Recycling experiment without of K_2PtCl_6 : Conditions: 50 mg CN-6, 10 mg K_2PtCl_6 , 18 ml H_2O , 2 ml TEOA, Xe light source 1.5 W/cm^2 light output, 396 nm cut-off filter.

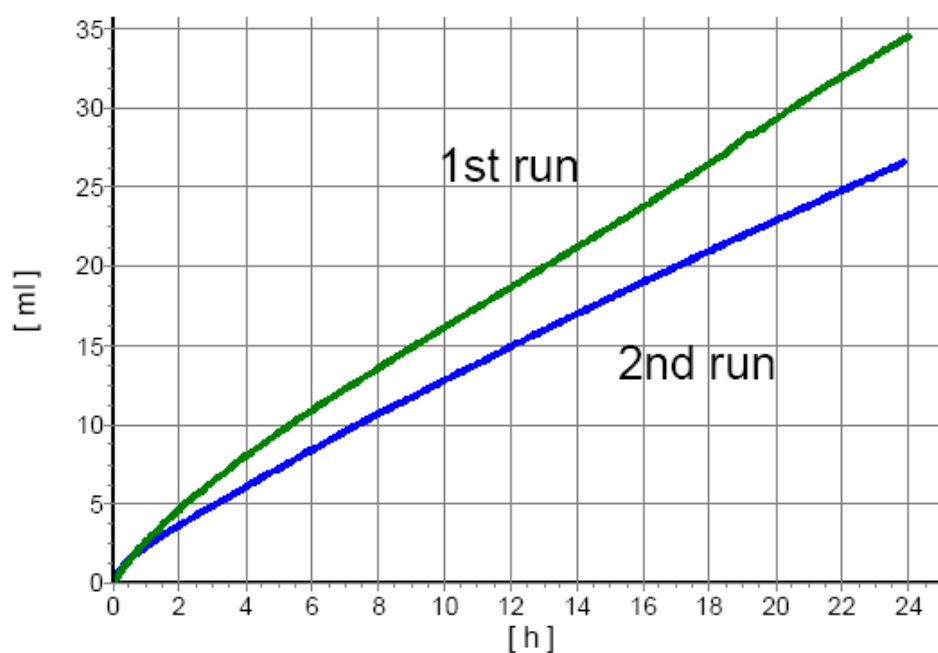


Figure S7: Long-term experiment for hydrogen evolution (96h): Conditions: 50 mg CN-6, 5 mg K_2PtCl_6 , 18 ml H_2O , 2 ml TEOA, Xe light source 1.5 W/cm^2 light output, 396 nm cut-off filter

