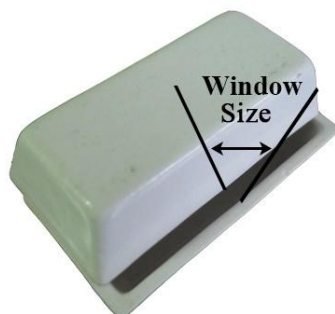


Electronic Supplementary Information (ESI)



Scheme S1. Schematic illustration of the semi-closed system used for preparation of g-C₃N₄ sample.

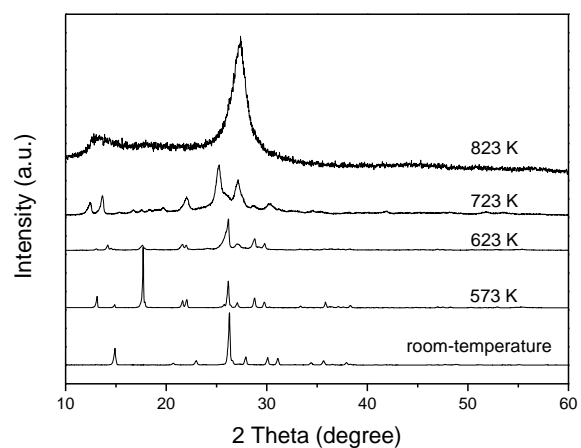


Fig. S1 Wide-angle XRD patterns of dicyandiamide calcined at different temperatures, which are attributed to melamine, melem and melon at 573K, 623K and 723K, respectively.

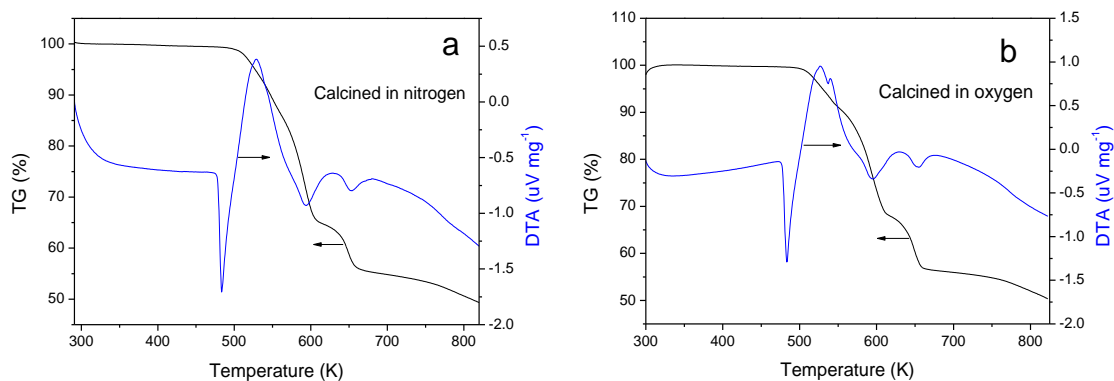


Fig. S2 TG-DTA of dicyandiamide calcined in different atmospheres with a heating rate of 10 K min⁻¹.

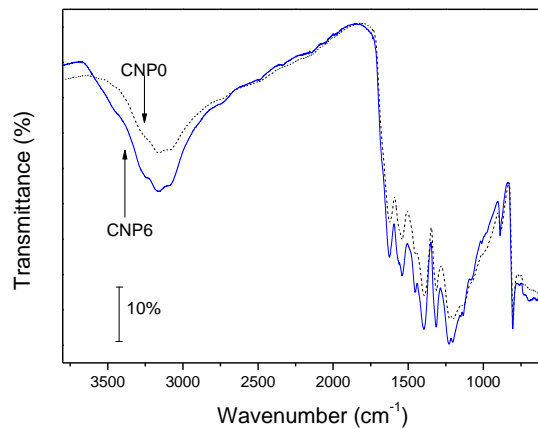


Fig. S3 FT-IR spectra of CNP0 and CNP6 samples.

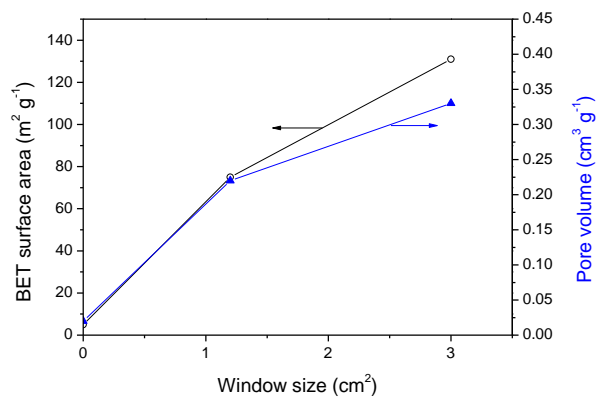


Fig. S4 The BET surface area and pore volume of porous g-C₃N₄ obtained from melamine via window size, and the synthesis process is same as that of CNP n samples.

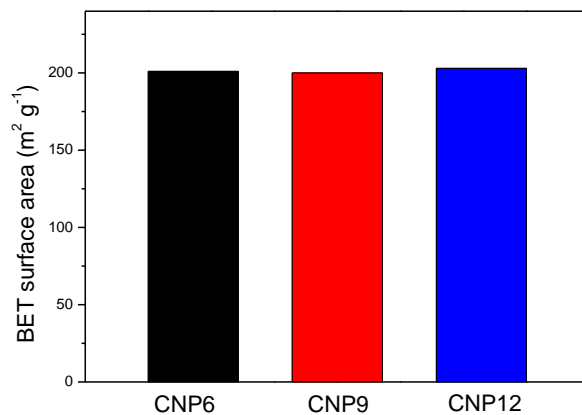


Fig. S5 The BET surface areas of CNP6, CNP9 and CNP12 samples.