

Supporting information for

**Cyano-rich Mesoporous Carbon Nitride Nanospheres for
Visible-light-driven Photocatalytic Degradation of Pollutant**

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Author Contributions:

Chang-bin Chen and Chen-Xuan Li contributed equally to this work.

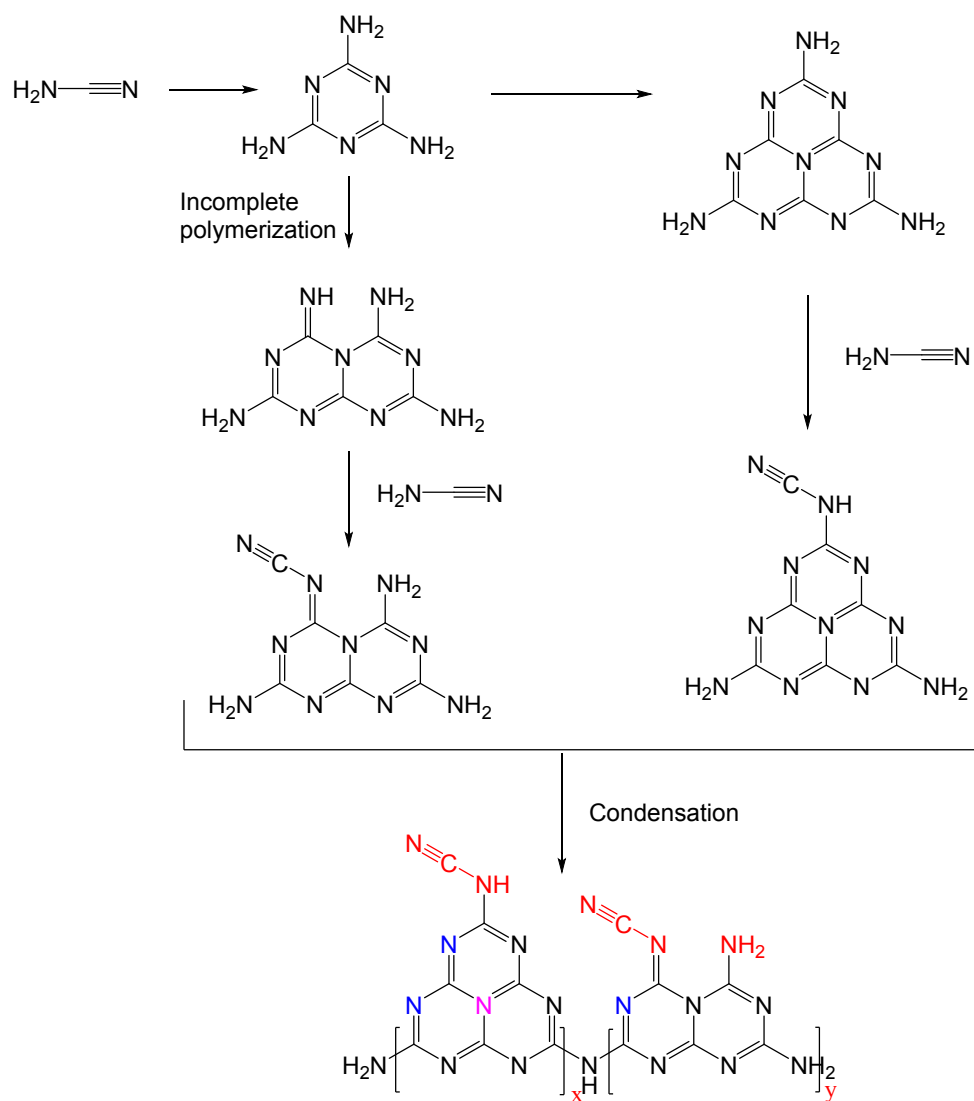


Figure S1. Schematic illustration of MCNS formation. The N1, N2, N3 was shown in blue, pink and red color, respectively.

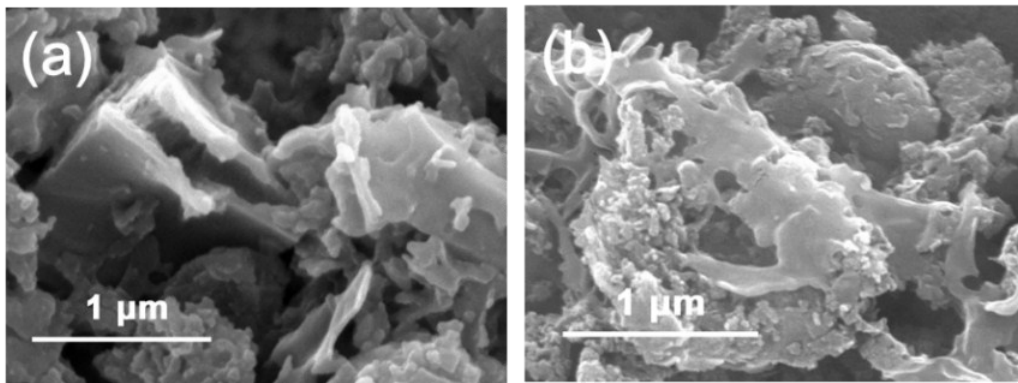


Figure S2. SEM images of (a)Bulk C₃N₄, and (b)NS C₃N₄.

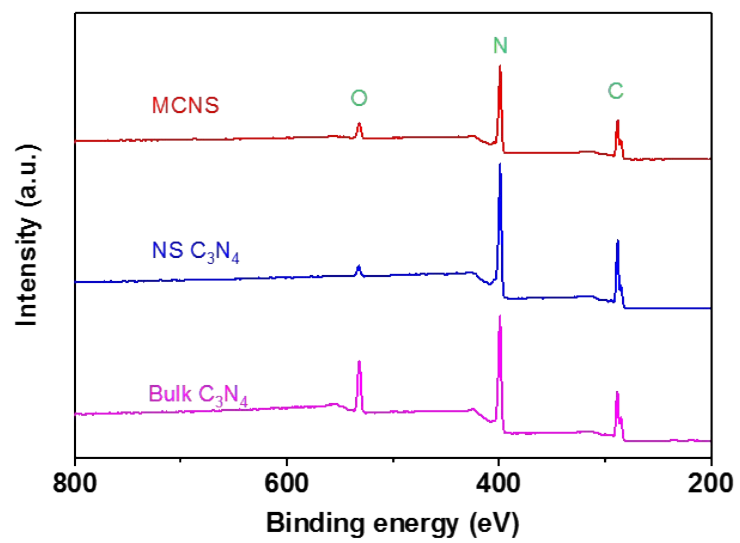


Figure S3. XPS survey spectra of the photocatalysts.

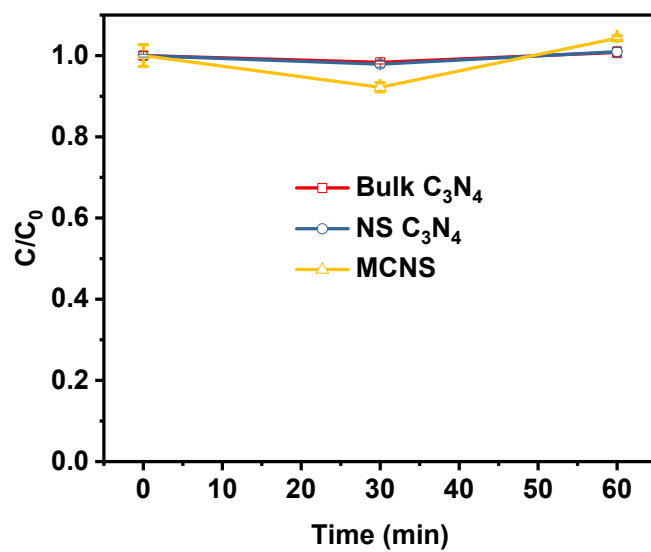


Figure S4. Adsorption of BPA with different photocatalysts over time under dark condition.

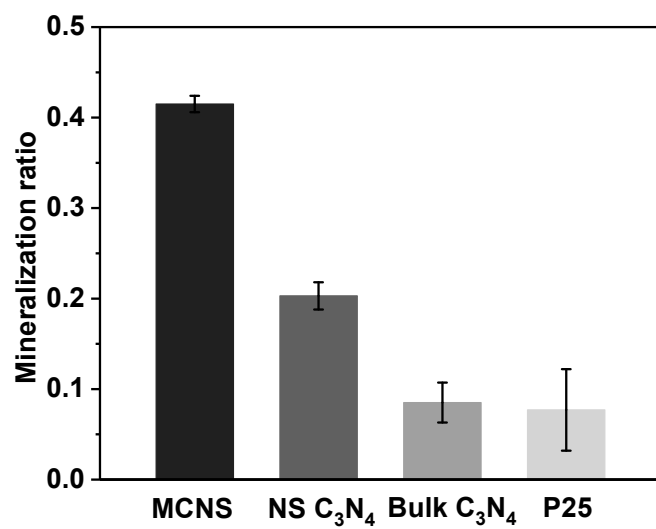


Figure S5. The photocatalytic mineralization ratio of BPA with different photocatalysts.

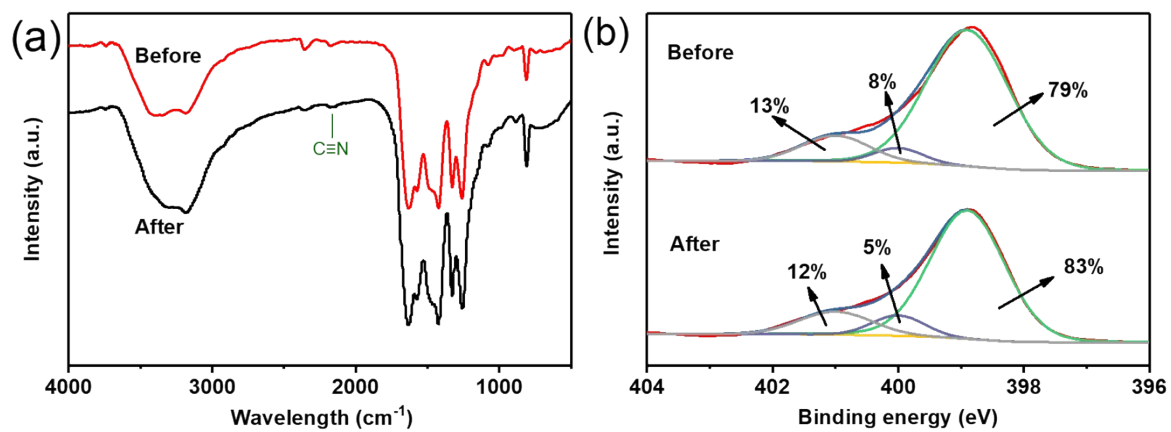


Figure S6. (a) The FTIR spectra, (b)XPS of N 1s spectra of MCNS before and after 1-h reaction for BPA photocatalytic degradation.

Table S1. Percentage of different N Species in the MCNS

Atomic %	N1 (C=N-C)	N2 (N-(C) ₃)	N3 (N-C≡N)
MCNS	76%	11%	13%
NS C ₃ N ₄	74%	14%	12%
Bulk C ₃ N ₄	74%	14%	12%

Table S2. Percentage of C, N, O in the MCNS

Atomic %	C	N	O
MCNS	26.03	70.89	3.08
NS C ₃ N ₄	38.32	59.57	2.11
Bulk C ₃ N ₄	29.71	60.69	9.6