

Supporting Information

**Controllable Synthesis of Nanotube-type Graphitic C₃N₄ and
Their Visible-light Photocatalytic and Fluorescent Properties**

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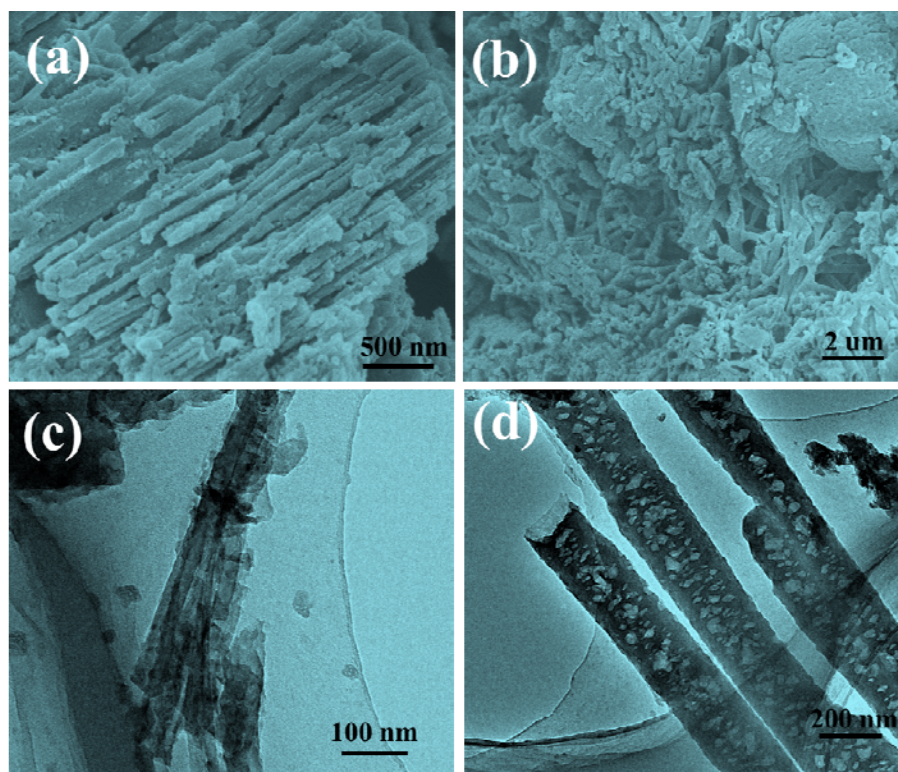


Figure S1. Panorama view of nanotube-type g-C₃N₄: (a) bulk phase; (b) surface parts; TEM images of nanotube-type g-C₃N₄: (c) formed in bulk phase; (d) formed on the surface.

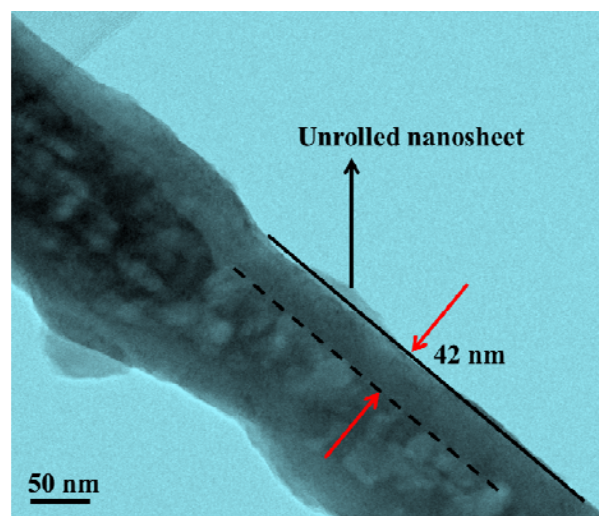


Figure S2. A magnified view of tube-like formed on the surfaces

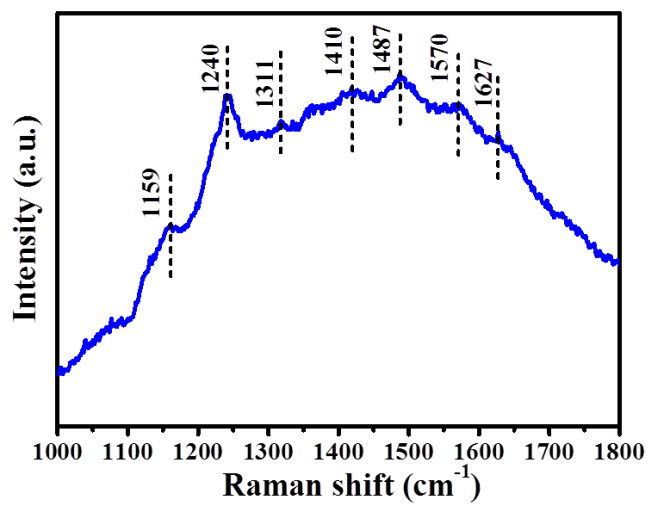


Figure S3. Raman spectrum of as-synthesized nanotube-type g-C₃N₄.

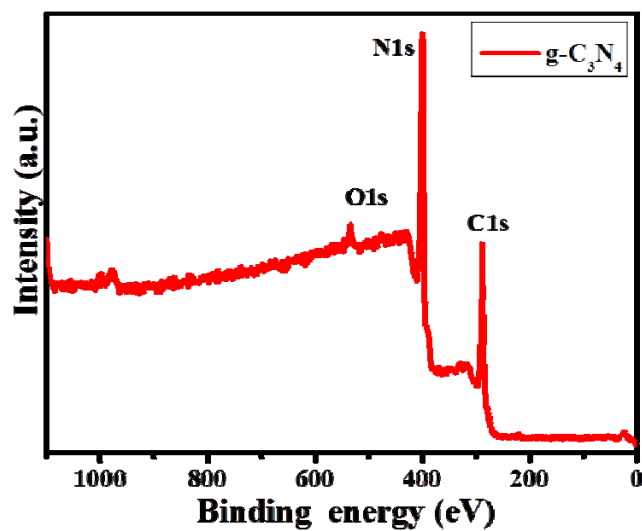


Figure S4. XPS spectrum of nanotube-type $g\text{-C}_3\text{N}_4$.

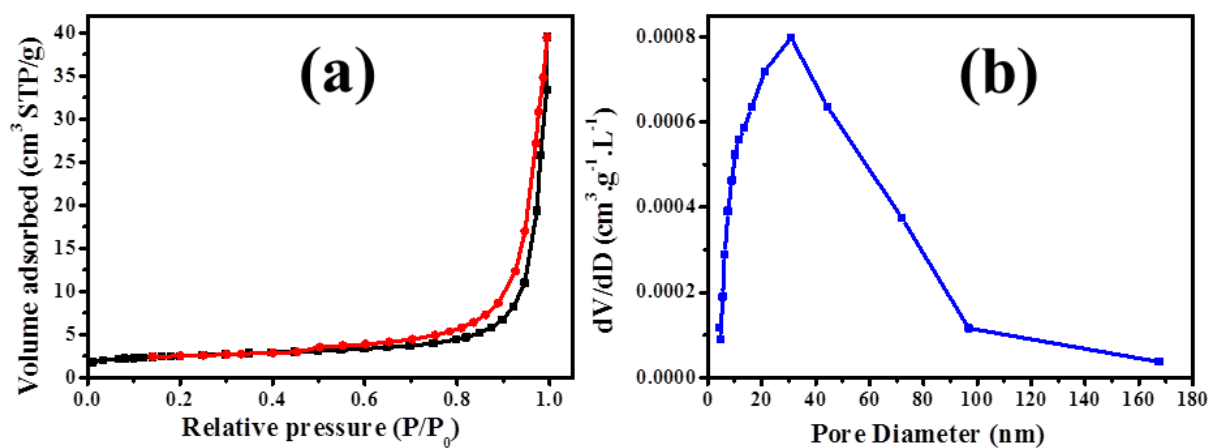


Figure S5. (a) Nitrogen adsorption-desorption isotherm; (b) the corresponding pore size distribution curve.

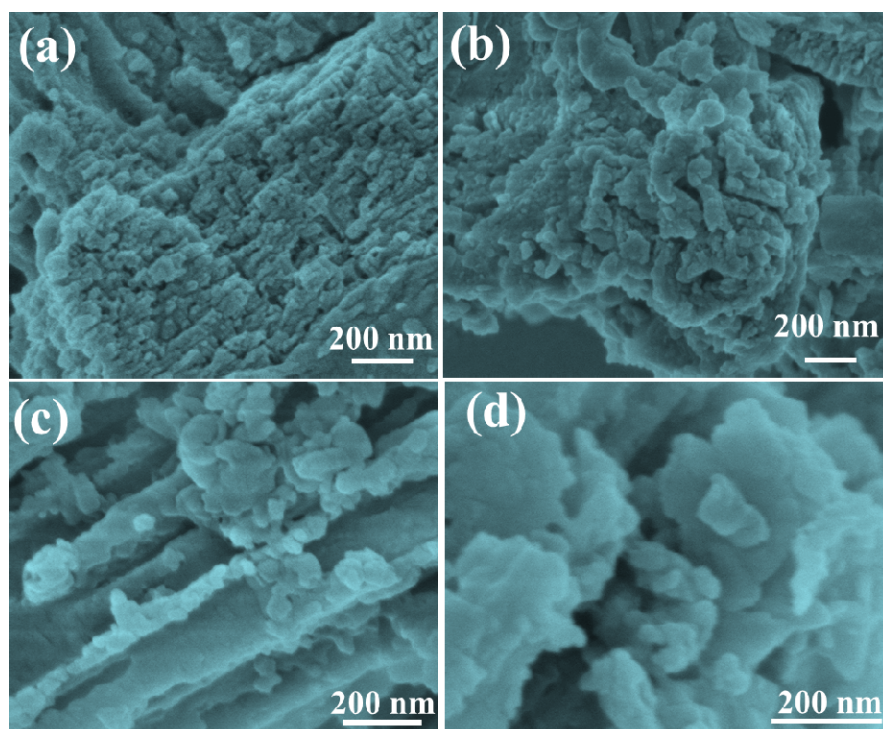


Figure S6. SEM images of g-C₃N₄ samples with different packing compact degree: (a-b) loosely packed; (c-d) tightly packed

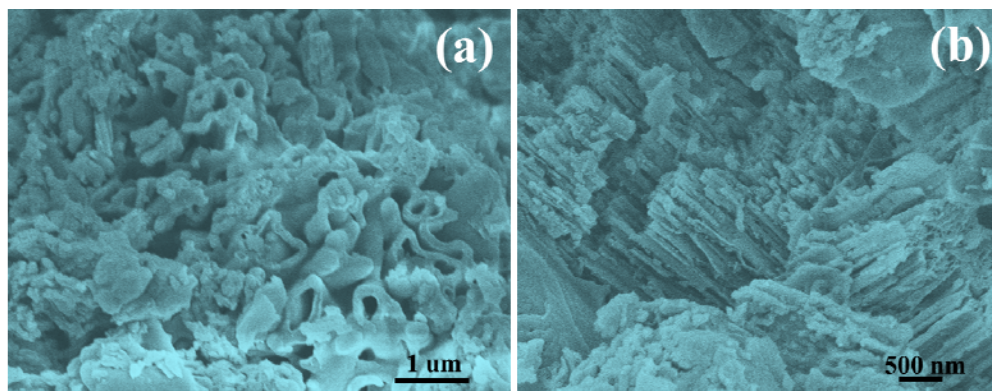


Figure S7. FE-SEM images of as-synthesized nanotube-type g-C₃N₄ ultrasonic treated with water (a) surface parts; (b) bulk phase

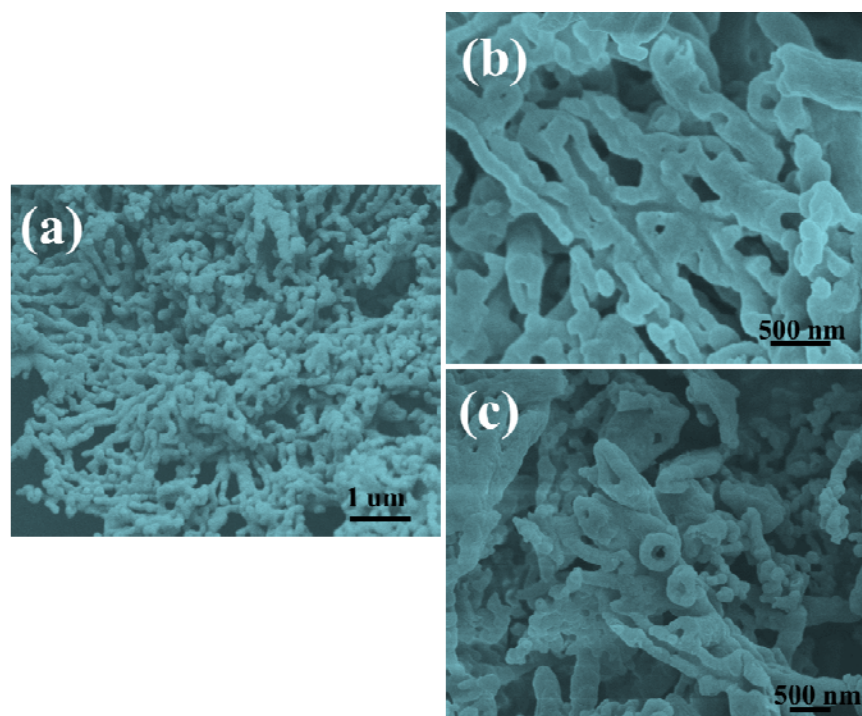


Figure S8. FE-SEM images of as-synthesized nanotube-type g-C₃N₄ by pasting melamine syrup on the wall of crucible: (a) an overall view; (b-c) magnified views

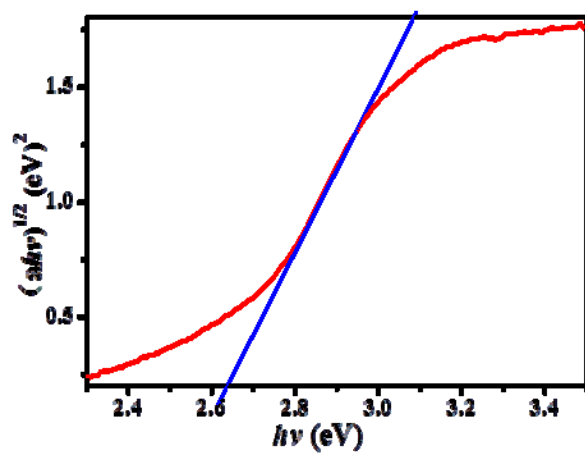


Figure S9. Tauc plot of as-synthesized nanotube-type g-C₃N₄.