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# One-step in situ Green Template Mediated Porous Graphitic Carbon Nitride for Efficient Visible Light Photocatalytic Activity

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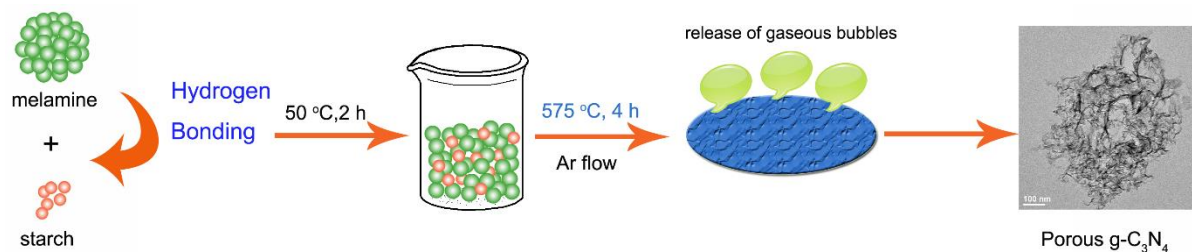
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## Graphical abstract



## Highlights

- Porous g-C<sub>3</sub>N<sub>4</sub> is prepared by using starch as green template in situ gaseous template
- Porous g-C<sub>3</sub>N<sub>4</sub> favours the separation of radiative charge carriers
- Samples enhanced visible light photocatalytic activity
- Optimized gaseous template contents have a significant influence on photooxidative chemical reaction.

## Abstract

We report a facile and sustainable route to prepare the porous g-C<sub>3</sub>N<sub>4</sub> by using starch as green in situ gaseous template and melamine as a precursor. The as-prepared g-C<sub>3</sub>N<sub>4</sub> exhibited

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