Supplementary materials

Graphitic-C₃N₄-hybridized Ag₃PO₄ tetrahedron with reactive {111} facets to enhance the visible-light photocatalytic activity

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Content
Fig. S1 Schematic diagram of the photocatalytic degradation set-up: 1. NO source, 2. air generator, 3. gas washing bottle, 4. mixing chamber, 5. flow control, 6. reactor cell, 7. illuminant, 8. NO analyser, 9. gas washing bottle with NaOH solution.
Fig. S2 SEM of C₃N₄/Ag₃PO₄(IR) hybrid.
Fig. S3 EDS pattern of 10CA.
Fig. S4 The plot of transformed Kubelka-Munk function vs. the energy of light.
Fig. S5 Nitrogen adsorption-desorption isotherm of (a) Ag₃PO₄ and (b) 10CA.
Fig. S6 Photocatalytic activity over samples under the visible-light irradiation (> 400 nm): (a) photocatalytic degradation of MB; photocatalytic removal of NO.
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**Fig. S2 SEM of C$_3$N$_4$/Ag$_3$PO$_4$(IR) hybrid.**

**Preparation of C$_3$N$_4$/Ag$_3$PO$_4$(IR) hybrid:** the prepared Ag$_3$PO$_4$(IR) powders were added into g-C$_3$N$_4$ dispersion. The mixture was sonicated for 30 min to completely disperse Ag$_3$PO$_4$ crystals and then stirred until the ethanol was volatilized completely. The weight ratios of g-C$_3$N$_4$ and Ag$_3$PO$_4$ is 10%.
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