

Accepted Manuscript

Full Length Article

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PII: S0169-4332(18)30370-2
DOI: <https://doi.org/10.1016/j.apsusc.2018.02.027>
Reference: APSUSC 38485

To appear in: *Applied Surface Science*

Received Date: 10 October 2017
Revised Date: 9 December 2017
Accepted Date: 3 February 2018

Please cite this article as: J. Huang, X. Zhang, H. Song, C. Chen, F. Han, C. Wen, Protonated graphitic carbon nitride coated metal-organic frameworks with enhanced visible-light photocatalytic activity for contaminants degradation, *Applied Surface Science* (2018), doi: <https://doi.org/10.1016/j.apsusc.2018.02.027>

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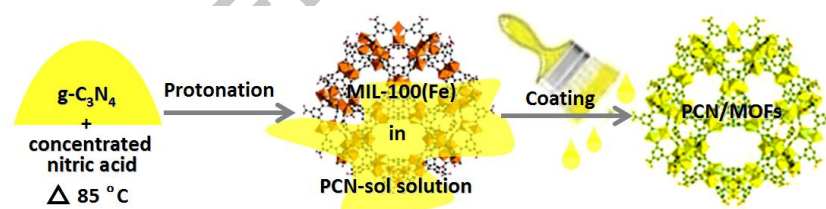
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Graphical Abstract:



Highlights

Protonated g-C₃N₄ coated MIL-100(Fe) was prepared by two-step method.

Protonated g-C₃N₄ was uniformly coated along the frameworks with strong interaction.

Coating effect of protonated g-C₃N₄ enhanced adsorptive/photocatalytic activity of MOFs.

Photocatalytic oxidation for pyridine in fuels by O₂ is a potential application.

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