



N掺杂可见光化催化剂的研究 N-doped Visible Light Responsive Photocatalysts

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英文关键词: [N-doped](#) [photocatalytic](#) [visible light](#) [stypnic acid](#)

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中文摘要:

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The N-doped, yellow colored titanium oxide photocatalysts were prepared with $Ti(SO_4)_2$ and NH_4HCO_3 as precursors by precipitation method. The photocatalytic ability under the irradiation of UV or visible light for the catalysts prepared was studied by degradation of styphnic acid. The materials were characterized by EDS, XRD, FTIR, UV-Vis DRS, and XPS. The results indicate that the photocatalytic ability of catalysts is improved, especially the ability of visible light response. The results of UV-Vis DRS show that the response wavelength range of N-doped nitrogen is red shifted, the absorption region is expanded to 476 nm.

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