## Accepted Manuscript

Title: One-step Electrospinning Synthesis of TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> Nanofibers with Enhanced Photocatalytic Properties

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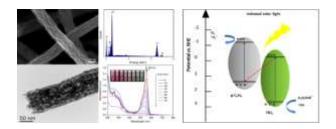
## ACCEPTED MANUSCRIPT

One-step Electrospinning Synthesis of TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> Nanofibers with Enhanced Photocatalytic Properties

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### **Graphical Abstract**



## Highlights

- TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> composite nanofibers are synthesized using one-step electrospinning mehod.
- Wrinkled surface and porous structure enhance the photocatalytic activity.
- TiO₂/g-C₃N₄ composite nanofibers display excellent photocatalytic activity.

### **Abstract**

 $TiO_2/g-C_3N_4$  composite nanofibers have been successfully synthesized by one-step electrospinning method, using titanium (IV) n-butoxide (TNBT) and urea as raw materials. The structure and compositions of  $TiO_2/g-C_3N_4$  samples are characterized by X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FT-IR), Diffuse

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