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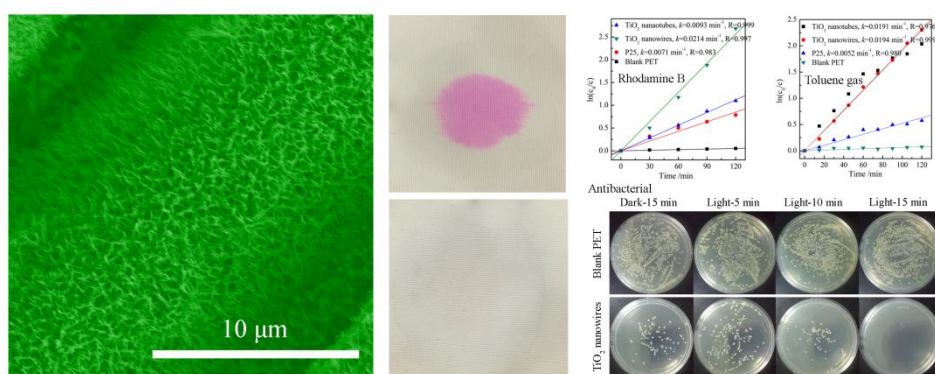
Titania Nanowires Functionalized Polyester Fabrics with Enhanced Photocatalytic and Antibacterial Performances

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Graphical Abstract



Highlights

- Precipitation of 1D TiO₂ film on PET fibers using Ti-H₂O₂ reactants.
- The film is a mixture of mesoporous nanowires, single-crystalline nanorods and nanobelts.
- The functionalized PET fabrics exhibited high photocatalytic activity.
- Sterilization of *E. coli* and *S. epidermidis* under visible light irradiation is achieved.

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