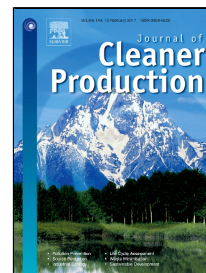


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A Comparative Study of Sodium/Hydrogen Titanate Nanotubes/Nanoribbons on Destruction of Recalcitrant Compounds and Sedimentation



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Highlights

- TiO₂ hydrothermal yield a high surface area titanate nanotubes, TT and ribbons, TR
- TT outperformed TR and TiO₂ for methylene blue (MB) adsorption and degradation
- The presence of Na⁺ ions intercalated in titanate is beneficial for MB adsorption
- Particle separability by sedimentation are different among sphere, tube and ribbon
- The overall performance are in the order TiO₂ < H-TR < Na-TR < H-TT < Na-TT

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