



Title	Combinational effect of Pt/SrTiO ₃ :Rh photocatalyst and SnPd/Al ₂ O ₃ non-photocatalyst for photocatalytic reduction of nitrate to nitrogen in water under visible light irradiation
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Supporting Information

Combinational effect of Pt/SrTiO₃:Rh photocatalyst and SnPd/Al₂O₃ non-photocatalyst for photocatalytic reduction of nitrate to nitrogen in water under visible light irradiation

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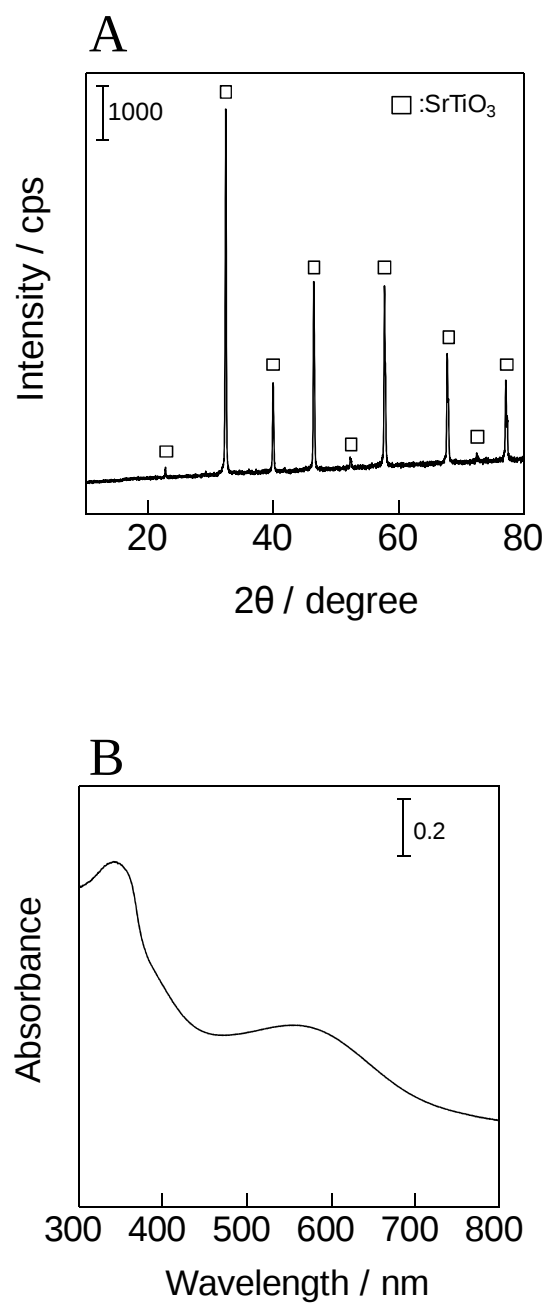


Fig. A1 (A) XRD patterns and (B) UV-vis diffuse reflectance spectra of SrTiO₃:Rh synthesized by a solid state reaction.

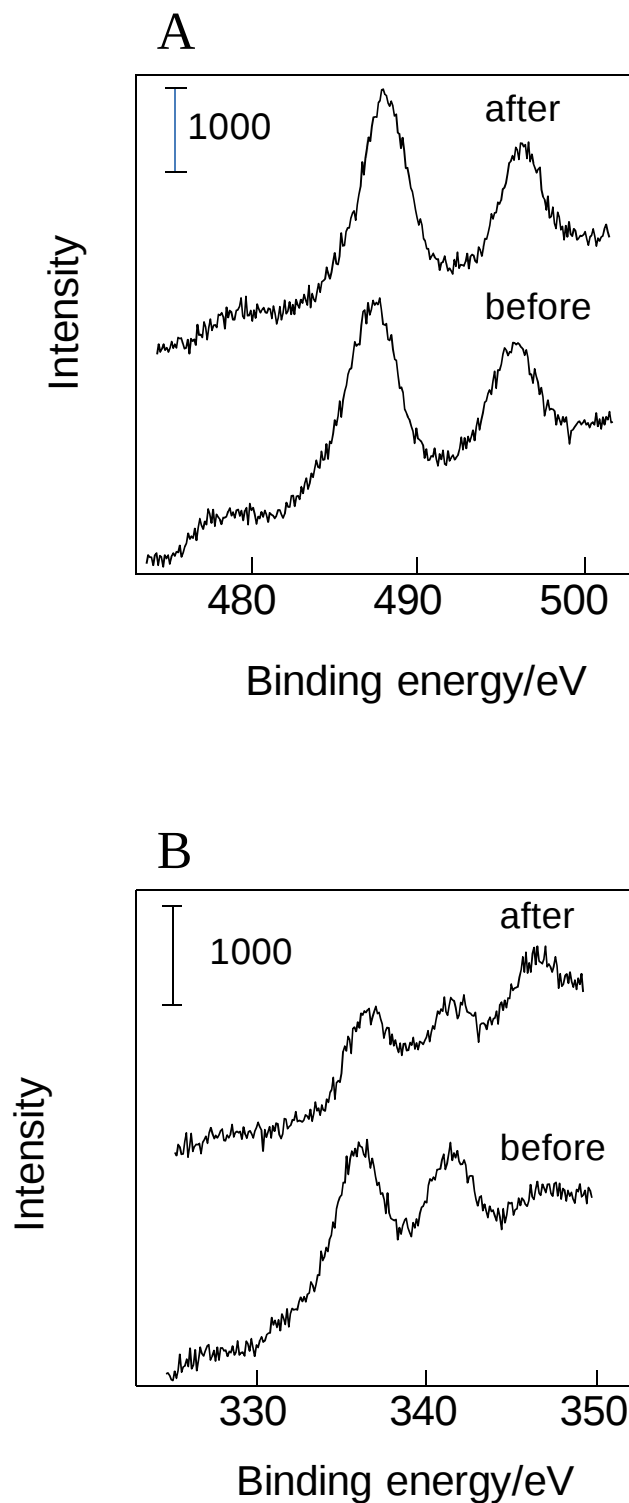


Fig. A2 XPS spectra of (A) Sn 3d and (B) Pd 3d core level for SnPd/Al₂O₃ before and after the photocatalytic reduction of NO₃⁻ in water in the co-presence of Pt/SrTiO₃:Rh and SnPd/Al₂O₃.

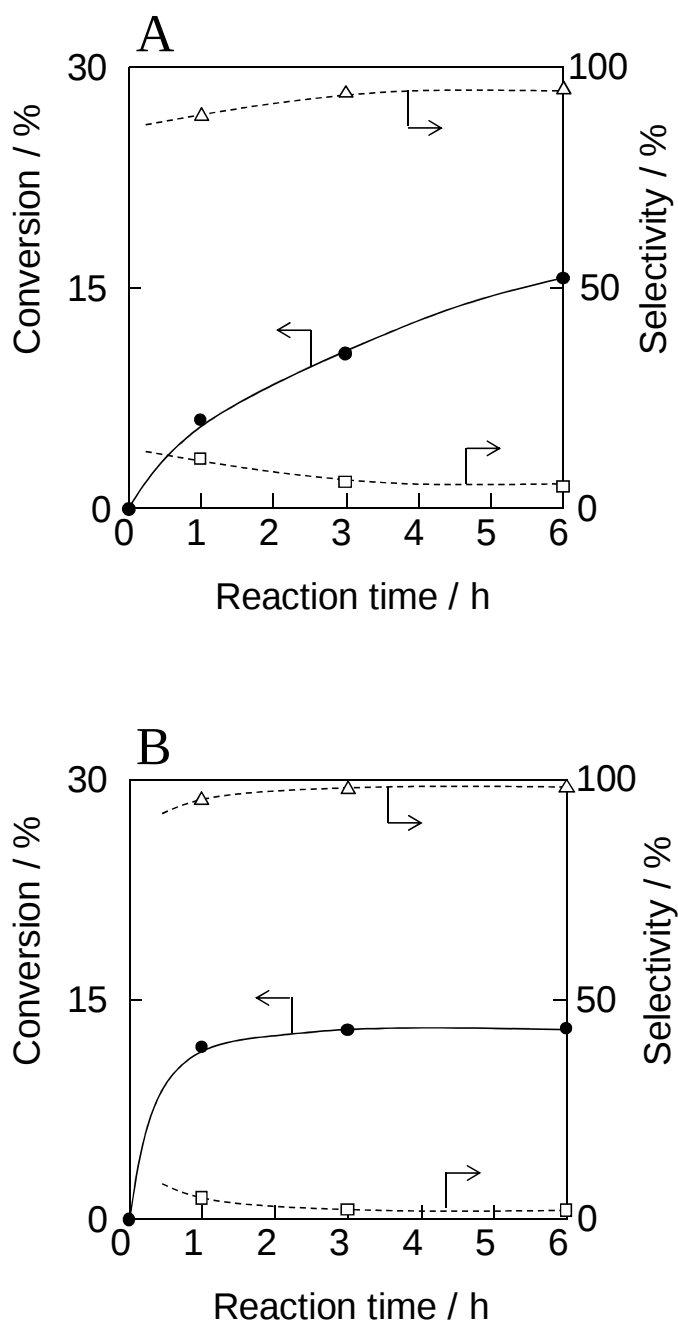


Fig. A3 Time courses for conversion of NO₃⁻ (●) and selectivities for NH₄⁺ (□) and N₂+N₂O (Δ) over SnPd/Al₂O₃ in the dark in the presence of (A) H₂CO, and (B) HCO₂H.