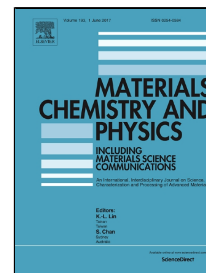


# Accepted Manuscript

Synthesis and semiconducting properties of tin (II) sulfide: Application to photocatalytic degradation of Rhodamine B under sun light

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**Research highlights**

- The semiconducting properties of SnS synthesized by chemical route are studied.
- The  $n$  type conductivity is evidenced by chrono-amperometry and photoelectrochemistry.
- The conduction band, located at 4.84 eV below vacuum, is made up of  $\text{Sn}^{2+} 5p$ .
- SnS was successfully used for the Rhodamine B oxidation under sunlight

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