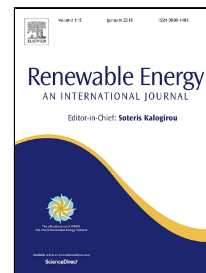


# Accepted Manuscript

Enhancement of the optical absorption of carbon group elements doped ZnS in the visible light range

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**Highlights**

- Group-IVA doped ZnS satisfy requirements of hydrogen production from water splitting.
- The absorption of ZnS in visible light range can be enhanced by C, Si, Ge, Sn and Pb.
- The mechanism of the absorption enhancement is elucidated with the TDOS and PDOS.

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