Supplementary Materials

First-principles calculations combined with experiments to study the gas

sensing performance of Zn-substituted SnS

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Figure captions:

Fig. S1. The total DOS of Zn-substituted SnS before and after (a) methanol (b) ethanol (c) acetone and (d) isopropanol adsorption. The Fermi level is set as zero.
Fig.S2. Electron density difference plot of Zn-substituted SnS parallel to a&c axis.
Fig.S3. Electron density difference plot of Zn-substituted SnS parallel to a&b axis.



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Fig.S2. Electron density difference plot of Zn-substituted SnS parallel to a&c axis.



Fig.S3. Electron density plot of Zn-substituted SnS parallel to a&c axis.

Reference:

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