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Title: Adsorption of ethyl xanthate on ZnS (110) surface in the presence of water molecules: A DFT study

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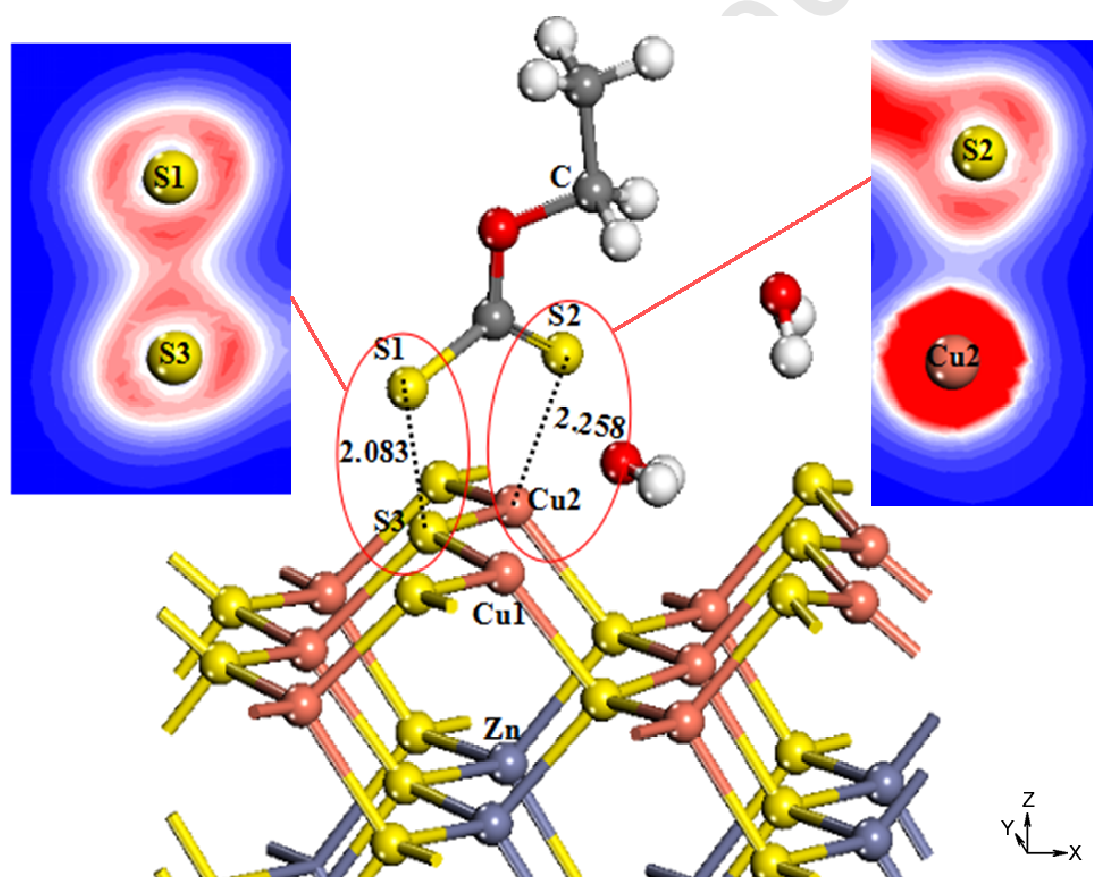


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Highlights:

1. Adsorption of water molecules decreases the reactivity of surface Zn atom.
2. Copper impurities decrease the band gap of ZnS surface.
3. Copper impurities enhance the adsorption of xanthate on the ZnS surface.
4. Water molecules have little influence on the properties of Cu-substituted ZnS surface.
5. The xanthate S atom can interact with the surface S atom of Cu-substituted ZnS surface.



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