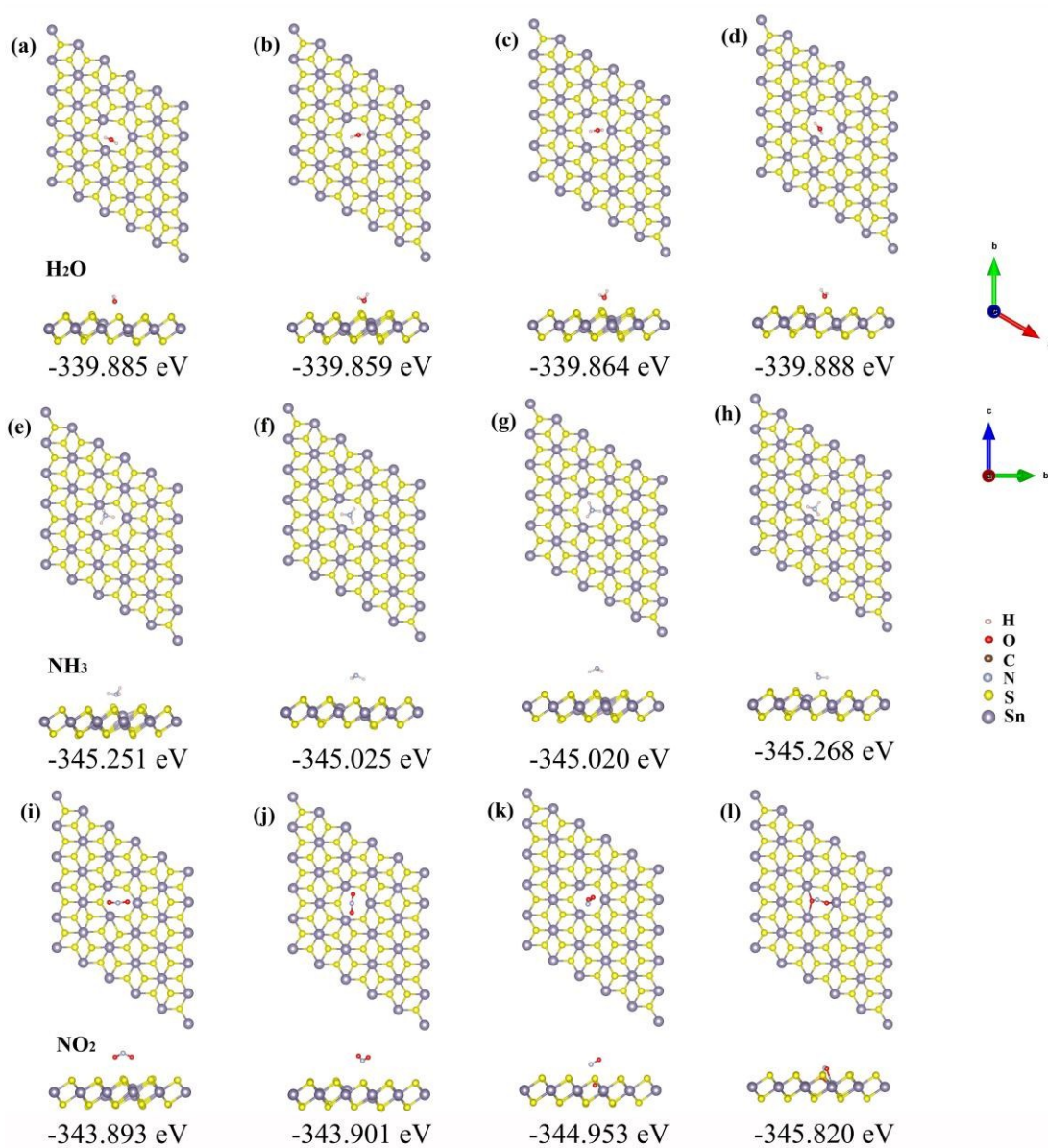


Supplementary materials



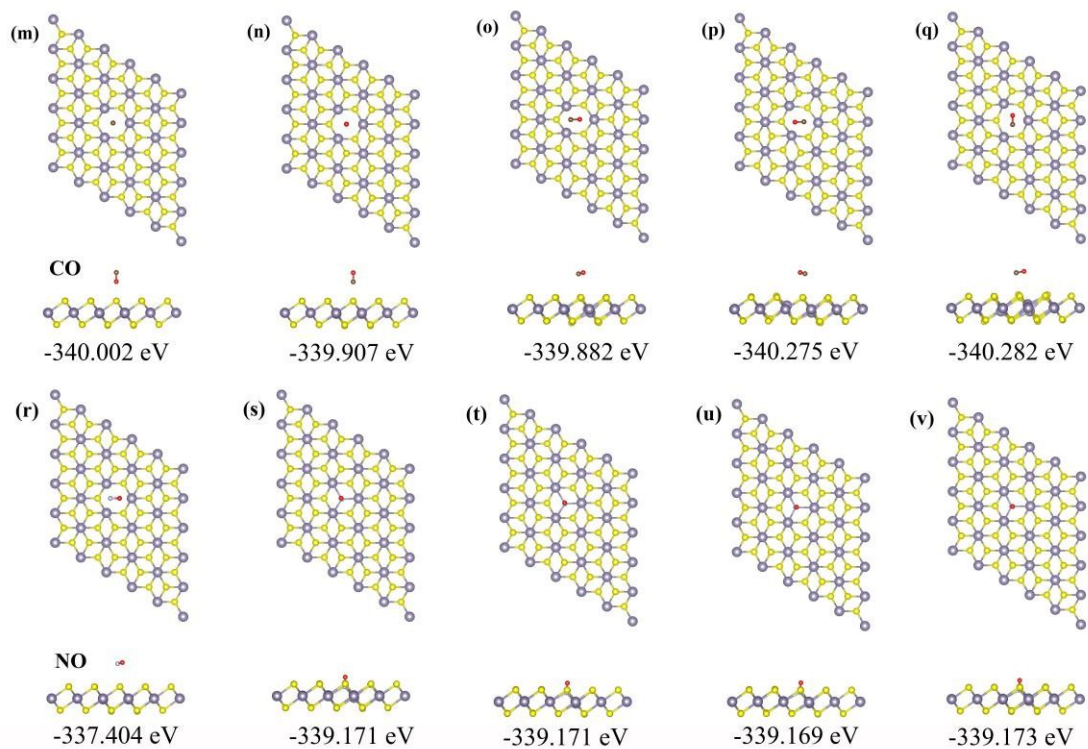


Figure S1. The models for gas molecule adsorbed s-vacancy SnS₂ monolayer systems in different configuration with corresponding adsorption energy.