

SUPPLEMENTARY MATERIAL

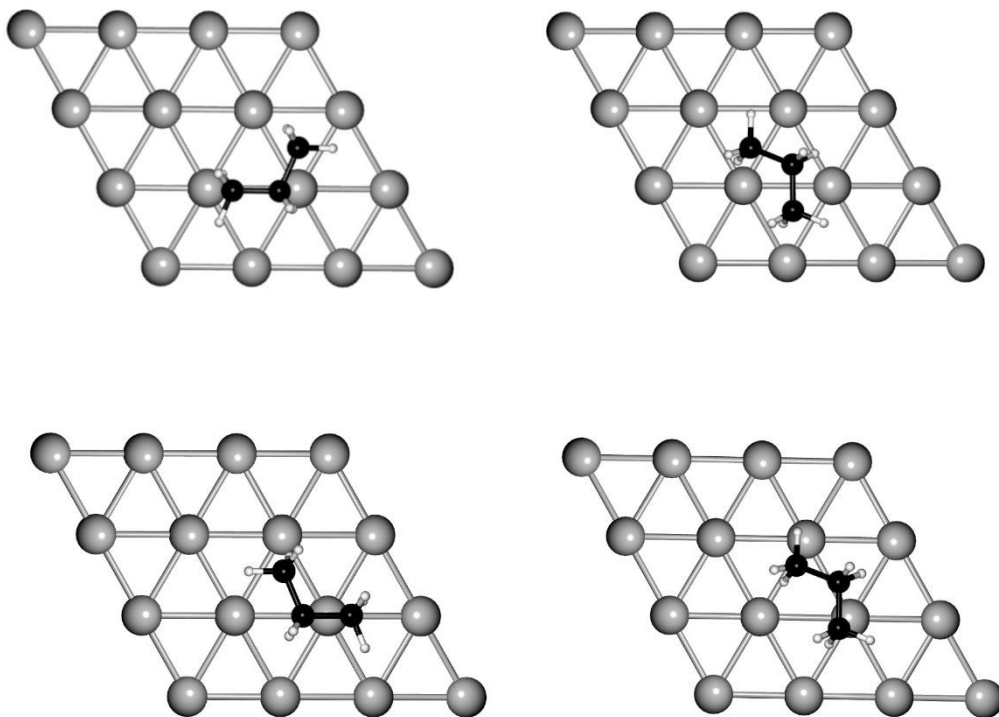


Figure S1. initial geometries for optimization calculations of propane adsorption over Ag(111).

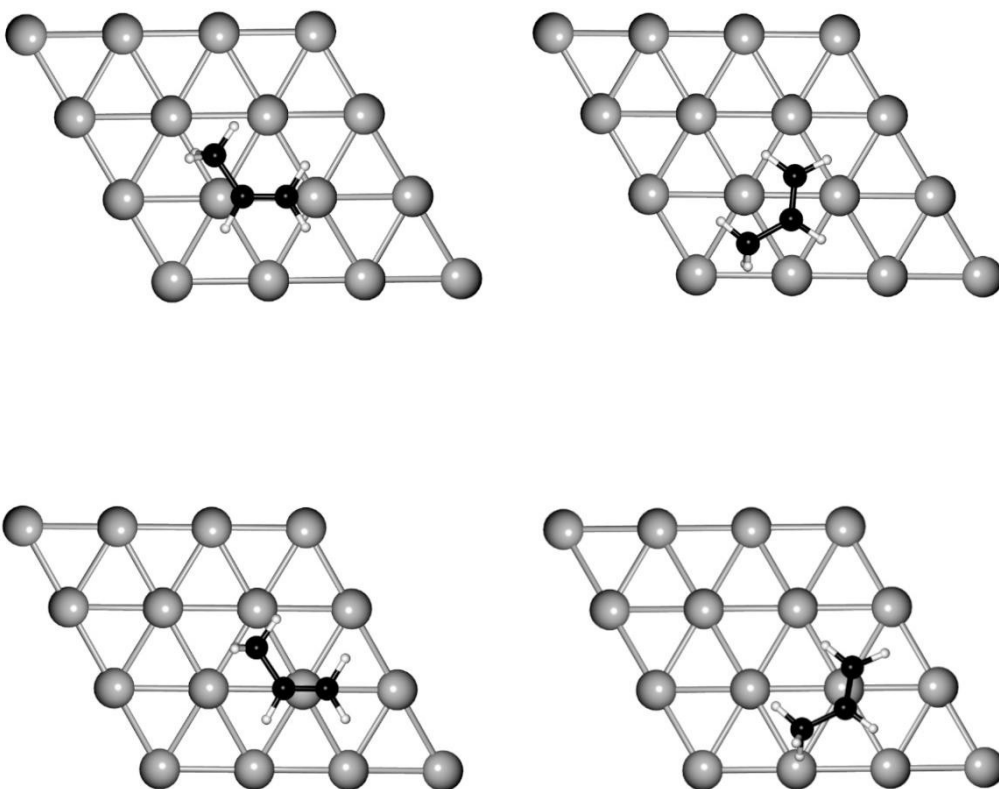


Figure S2. initial geometries for optimization calculations of propene adsorption over Ag(111).

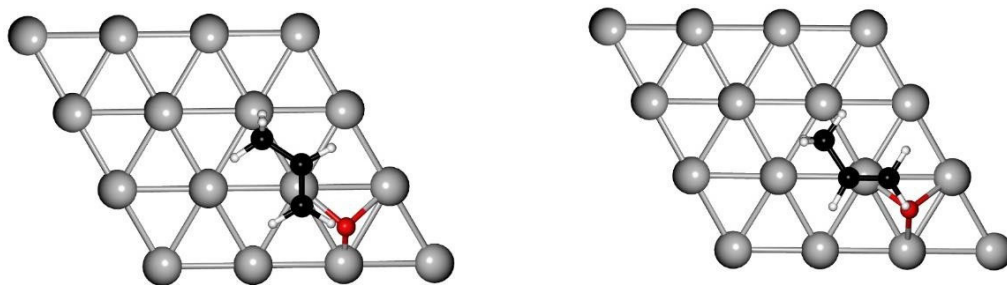


Figure S3. initial geometries for optimization calculations of propene adsorption over Ag(111) with a O adatom.