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Subtle and Reversible Interactions of Ambient Pressure H₂ with Pt/Cu(111) Single Atom Alloy Surfaces

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Highlights

- Binding energy shift of Pt 4f XPS shows the presence of adsorbed H on single Pt sites
- H does not affect the thermal stability of Pt-Cu single atom alloy
- H₂ activation is resistant to CO poisoning at 350 K
- Poisoning effects increase with lower temperature and sample pre-heating

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