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Modifying Hydrogen Binding Strength of Graphene

Mohammad Panahi, Navid Solati, Sarp Kaya

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#### ACCEPTED MANUSCRIPT

## Highlights

- Subsurface alloys modify hydrogenation capacity of supported graphene
- Moiré patterns are critical in hydrogenation of graphene on Pt(111)

• Co embedded in subsurface of Pt(111) reduces the desorption activation barrier of hydrogen on graphene

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