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## Exploring the role of K as a promoter in the water-gas shift reaction and methanol synthesis

### Researchers:

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Language Undefined

### Description:

Proyecto asignado a través de la [Red Española de Supercomputación](#) [2].

The activity and selectivity of a heterogeneous catalyst can be substantially affected by the addition of a promoter. In this project, we aim to study the influence of K as a promoter for the WGS reaction and methanol synthesis in different Cu based catalyst. Our previous studies demonstrated that K plays an important role in water dissociation but it is unclear its influence in the whole catalytic cycle from a thermodynamic and kinetic points of view.

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### Source

**URL:** <https://www.cenits.es/en/proyectos/exploring-role-k-promoter-water-gas-shift-reaction-and-methanol-synthesis>

### Links

[1] <https://www.us.es/> [2] <https://www.res.es/>