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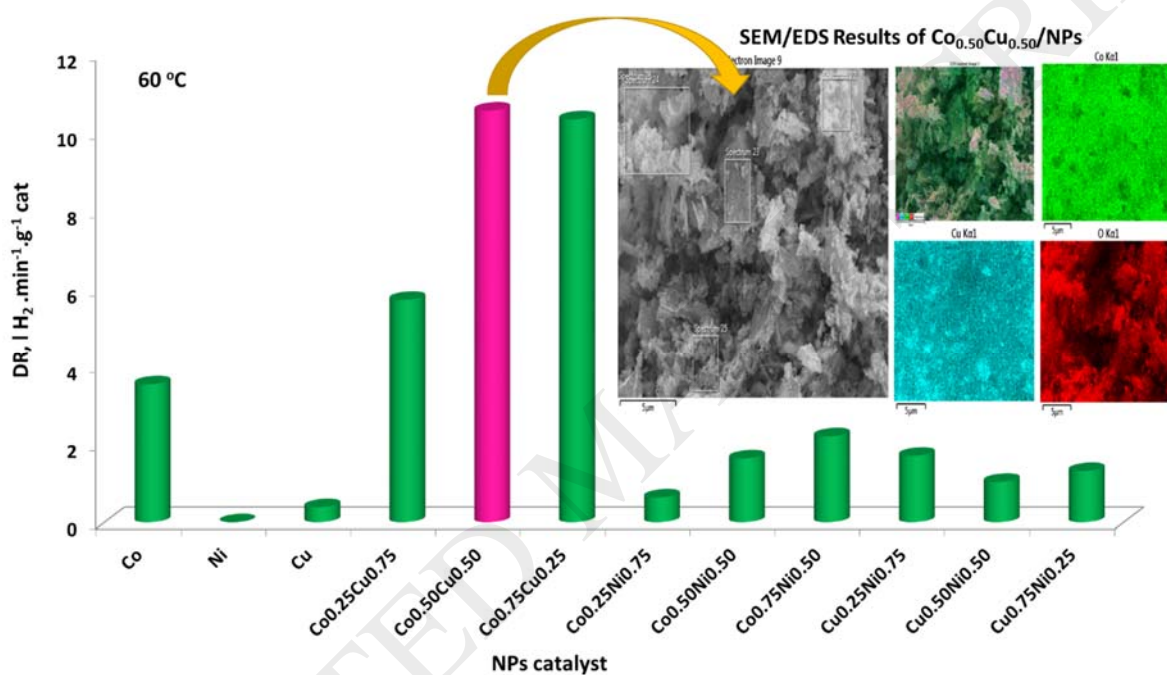
## Dual Combining Transition Metal Hybrid Nanoparticles for Ammonia Borane Hydrolytic Dehydrogenation

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### Graphical Abstract

Dual Combining Transition Metal Hybrid Nanoparticles for Ammonia Borane Hydrolytic Dehydrogenation at 60 °C



### Highlights

- Dual combining of Co, Ni, and Cu transition metal hybrid nanoparticles design
- Hydrolytic dehydrogenation of ammonia borane was performed
- Dual combination of metals showed synergistic effects on activities
- $\text{Co}_{0.50}\text{Cu}_{0.50}/\text{NPs}$  showed superior catalytic properties with synergistic effect

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