

Rhodium incorporated monometallic cobalt hydrotalcite-type materials: Preparation and its applications for the hydroformylation of alkenes

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Graphical Abstract

Cobalt–rhodium hydrotalcite (CoRh-HT)-based materials are successfully synthesized and are demonstrated to be promising catalysts for hydroformylation of alkenes.



Research highlights

- Bimetallic Co–Rh Hydrotalcite was prepared for the first time.
- Bimetallic cobalt–rhodium layered hydrotalcite-type materials displayed a maximum of 98% olefin conversion with 99% aldehydes selectivity.