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#### Digest paper

Recent topics in catalytic asymmetric hydrogenation of ketones

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## ACCEPTED MANUSCRIPT

### **Graphical Abstract**

Recent topics in catalytic asymmetric hydrogenation Leave this area blank for abstract info. of ketones Masahiro Yoshimura, Shinji Tanaka, Masato Kitamura  $\begin{array}{c} O \\ H \\ R^1 \\ R^2 \end{array} + H_2 \xrightarrow{\text{metal} \\ \text{chiral ligand}} \end{array}$ `R² precious base metal: Ru, Os, Rh, Ir, Pd Fe, Co, Ni, Cu chiral ligand: PP,  $P_2/N_2$ ,  $P_mN_n$ , NN,  $N_4$ ,  $N_2S_2$ MA 

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