

Supporting Information

Support and size effects of ruthenium catalysts with a chiral modifier for asymmetric hydrogenation of aromatic ketones

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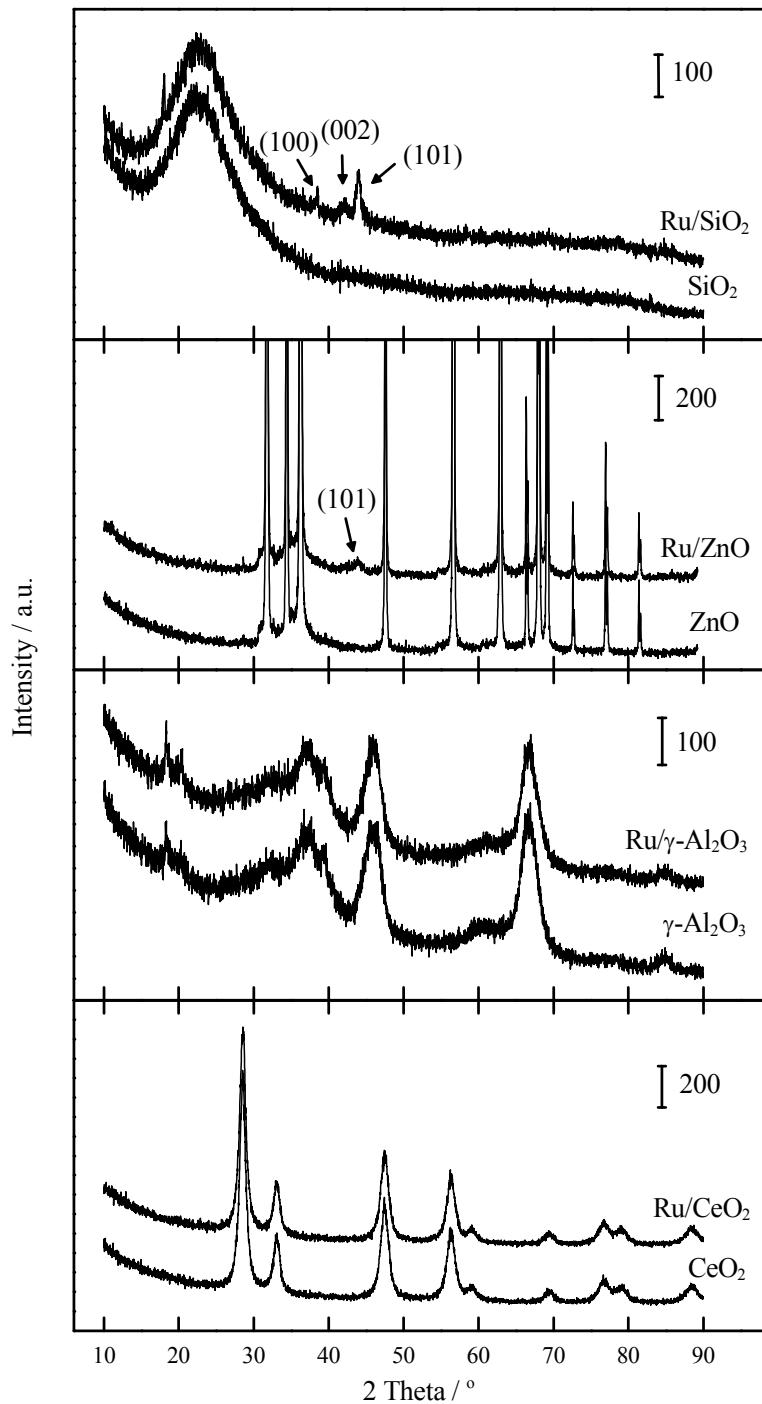


Figure S1. XRD patterns of pure supports and respective supported Ru catalysts.

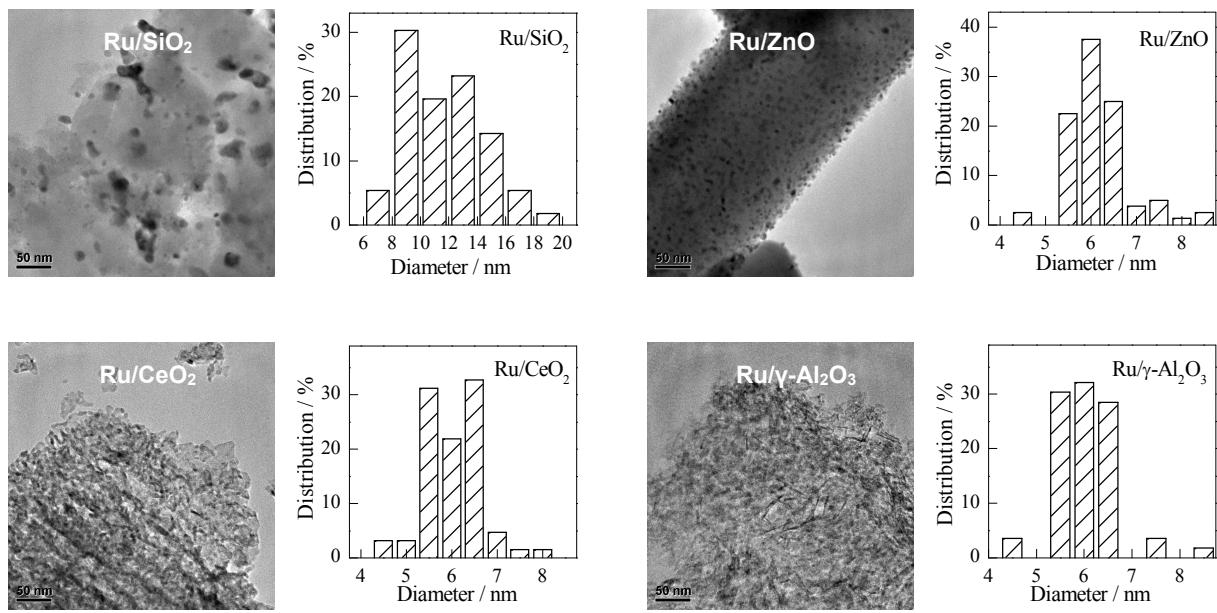


Figure S2. TEM images and particle size distributions of several supported Ru catalysts.

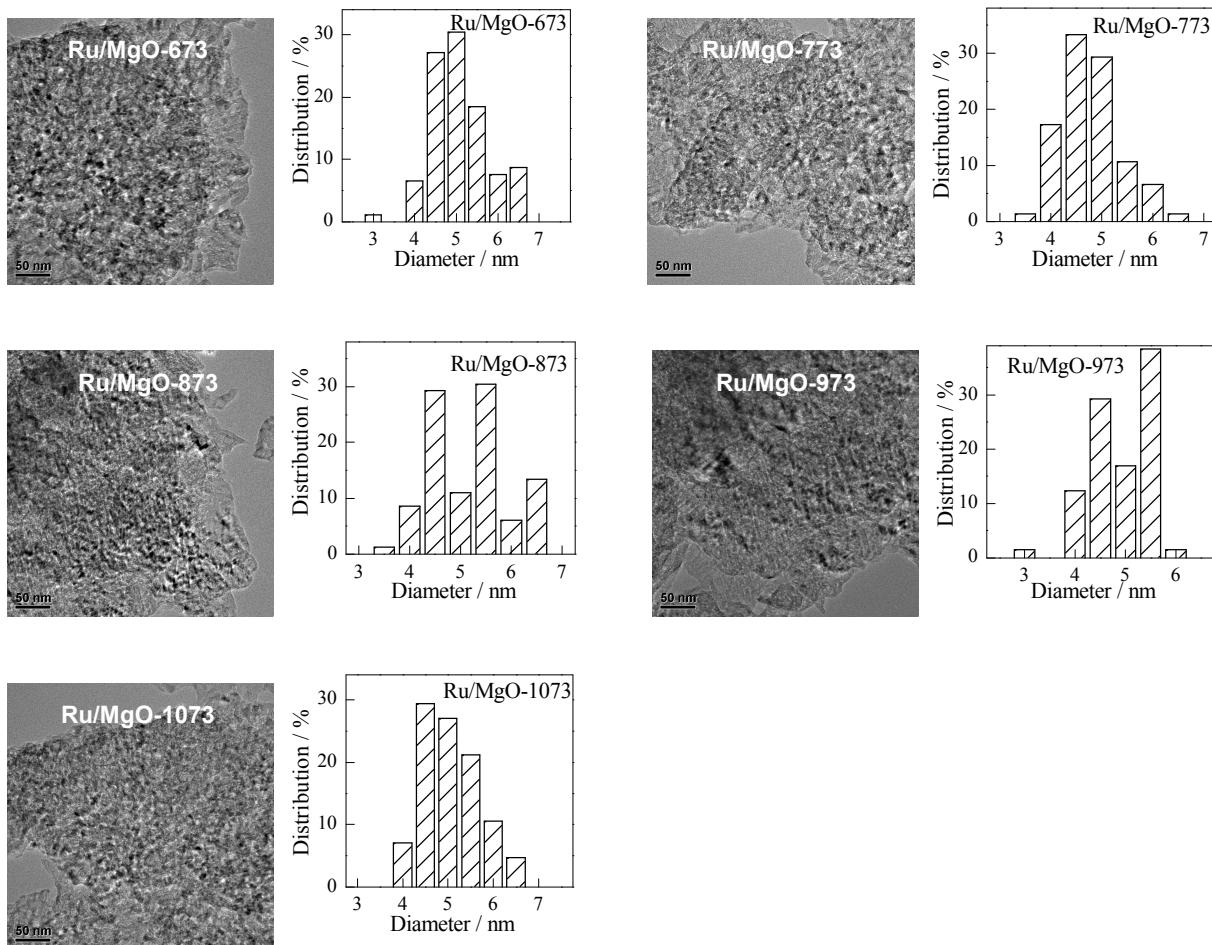


Figure S3. TEM images and particle size distributions of Ru/MgO-x catalysts.

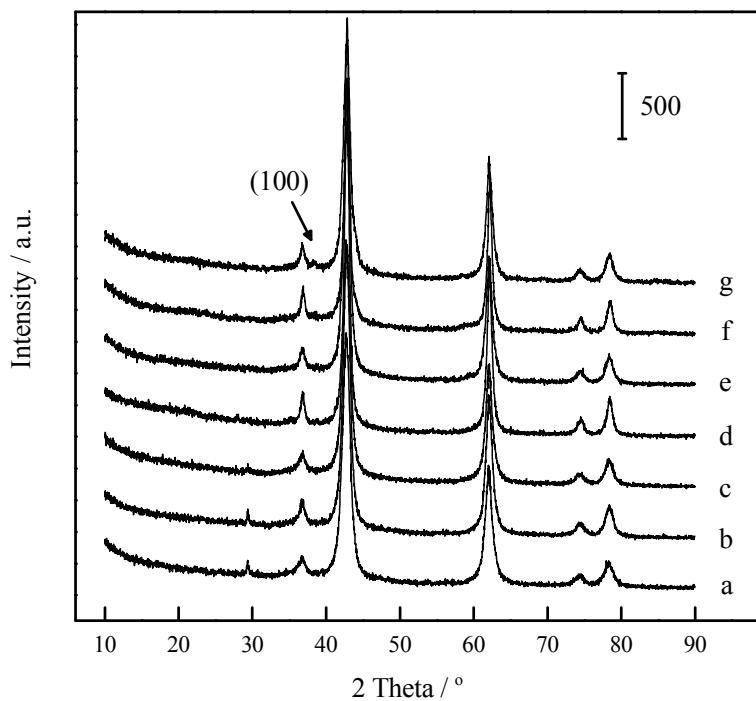


Figure S4. XRD patterns of Ru/MgO with different Ru contents. (a) MgO, (b) 0.14% Ru/MgO, (c) 0.41% Ru/MgO, (d) 0.69% Ru/MgO, (e) 1.54% Ru/MgO, (f) 2.54% Ru/MgO, (g) 4.50% Ru/MgO.

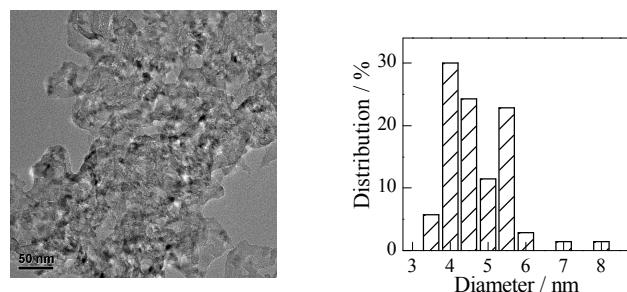


Figure S5. TEM images and particle size distributions of Ru/MgO catalyst after the catalytic reaction.