In-depth understanding of the bimetallic effects and coked carbon species on an active bimetallic Ni(Co)/Al2O3 dry reforming catalyst

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Available files

XRD data for fresh catalysts.xls

This file contains the diffraction data for three catalysts which displays in four columns. The first column is the diffraction angle and the others is the intensity of diffraction peaks.

XRD data for spent catalysts.xls

This file contains the diffraction data for the catalysts used after dry reforming reaction which displays in four columns. The first column is the diffraction angle and the others is the intensity of diffraction peaks.

TPR.xls

This file contains the experimentally measured hydrogen consumption of the catalysts as a function of temperature with the data in three columns. The first column is the temperature, the second column is the hydrogen consumption.

TPO.xls

This file contains the results of temperature programmed oxidation for three spent catalysts. The fitting peaks also are included in the file.

Raman.xls

This file contains the results of Raman scattering for three spent catalysts. The fitting peaks also are included in the file.

INS(high energy).xls and INS(low energy).xls

This file contains t INS spectra of spent catalysts using the MAPS spectrometer operating an incident neutron energy of 4840 cm-1 (high energy) and 2017 cm-1 (low energy).

If you would like the data in another form, please contact xl19e13@soton.ac.uk.