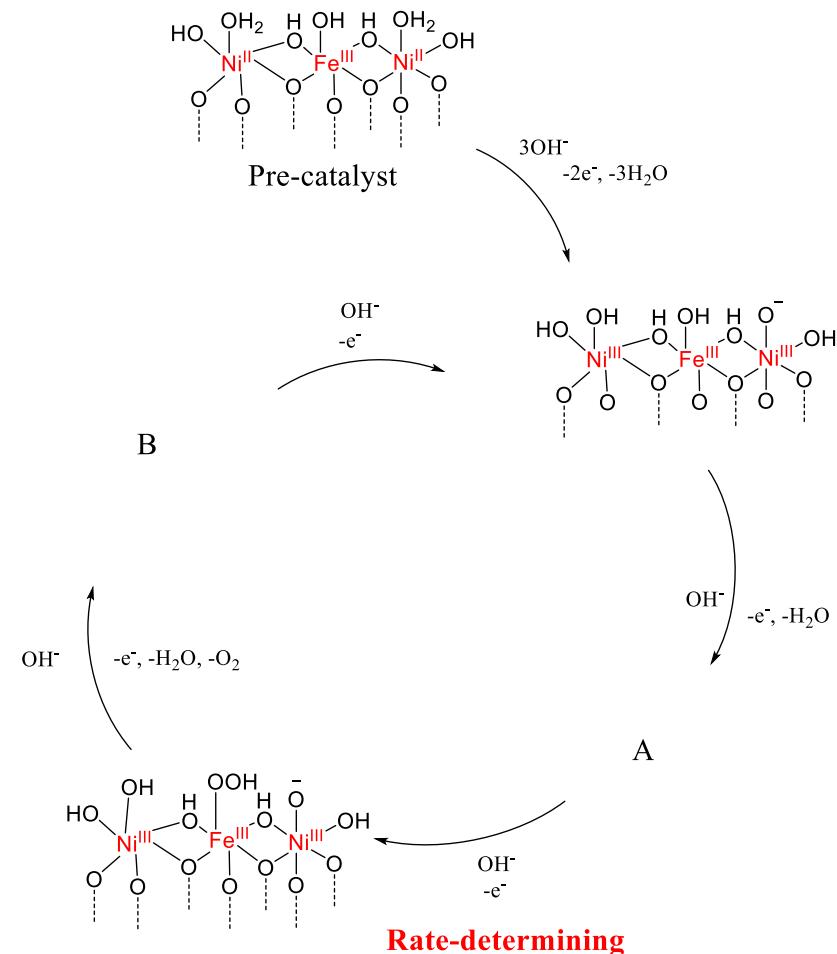


Nickel iron oxide (NiFeO_x) is a benchmark catalyst for the oxygen evolution reaction. The following mechanism is proposed for NiFeO_x. Please complete the missing species (A and B) in the catalytic cycle. Label the oxidation states of Ni and Fe.



A novel catalyst, FeOOH-NiOOH , exhibits about 10-fold higher intrinsic activity than NiFeO_x . The following mechanism has been proposed. Please complete the missing oxidation states of Ni and Fe (ox1-ox6).

