

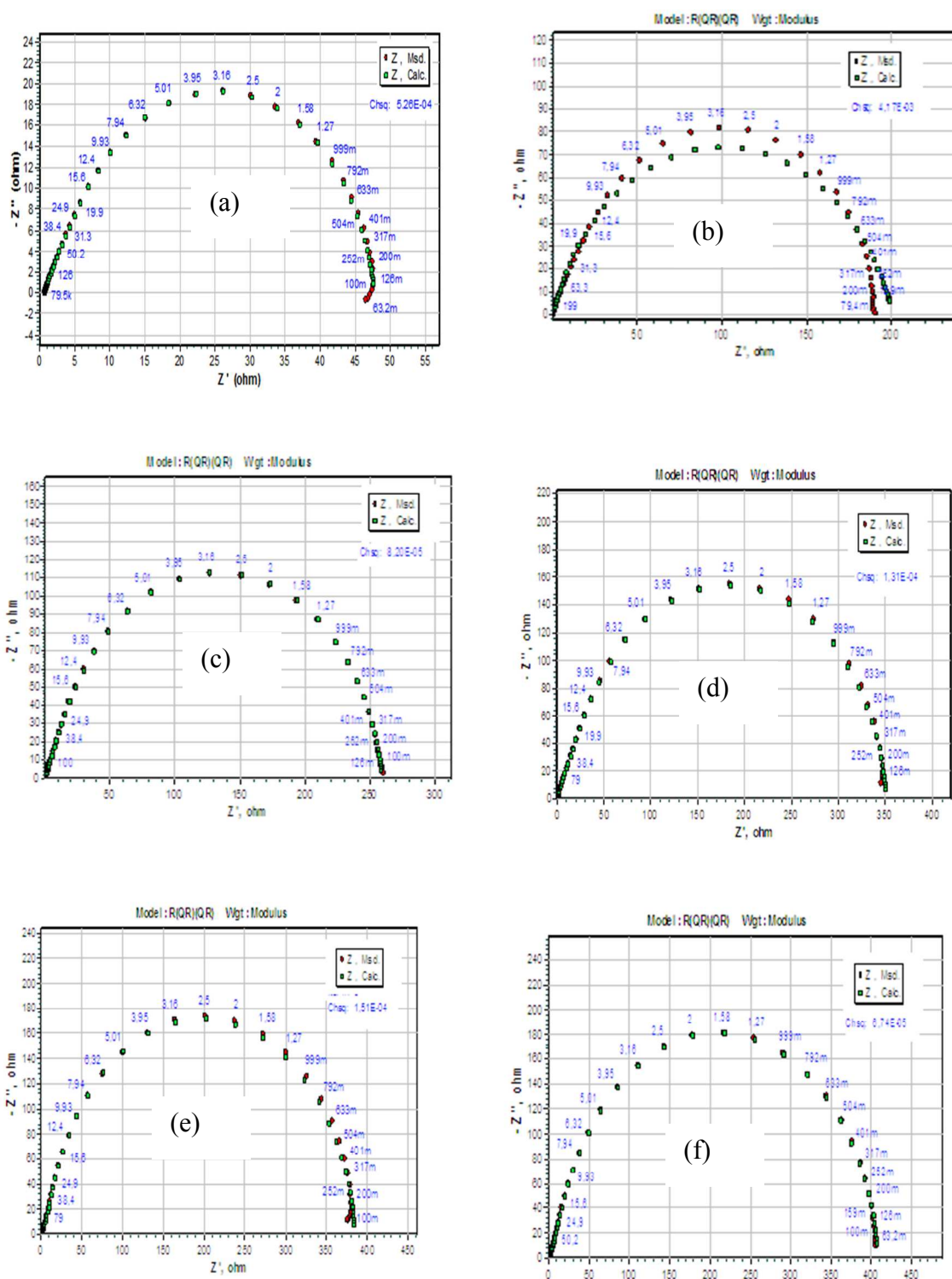


Figure S1: Fitted EIS impedance obtained for St37 steel in 15% H_2SO_4 solution without and with different concentrations of CMC/AgNPs

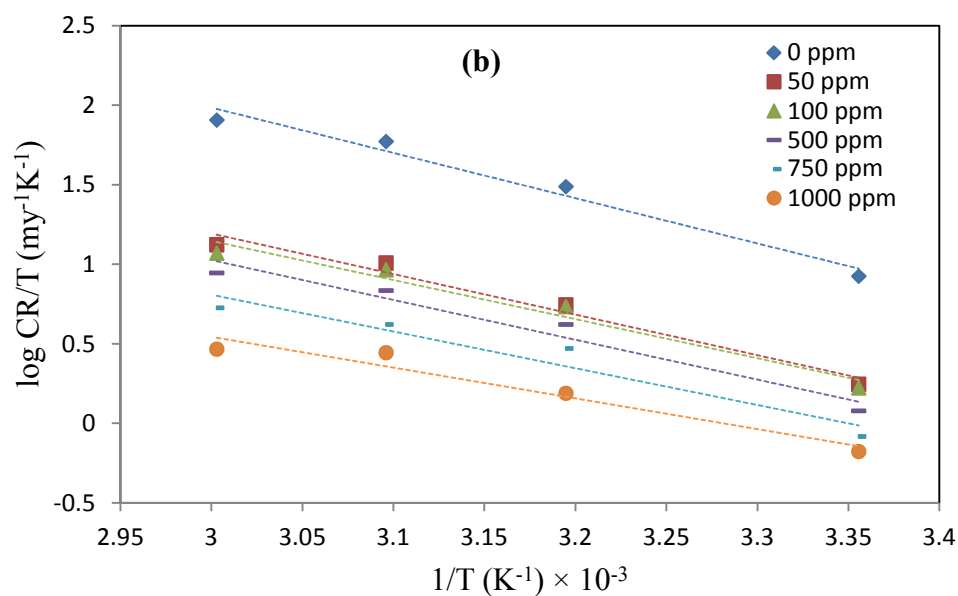
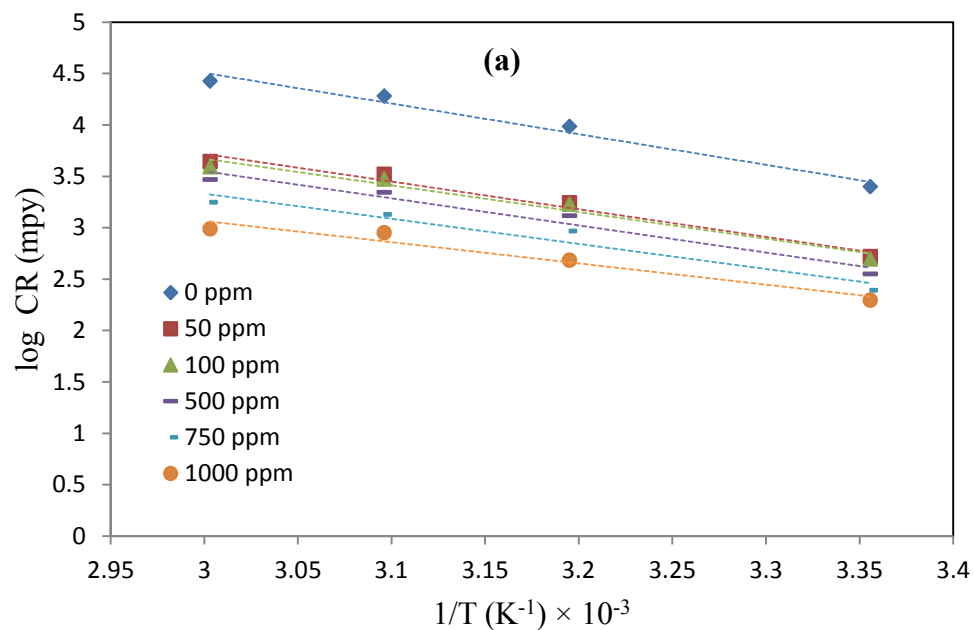


Figure S2: (a) Arrhenius and (b) Transition state plots for St37 steel in 15% H_2SO_4 solution in the absence and presence of various concentrations of CMC/AgNPs composite.