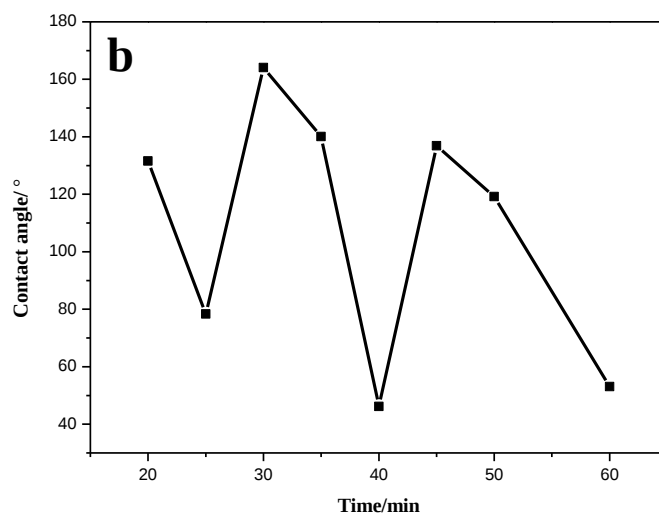
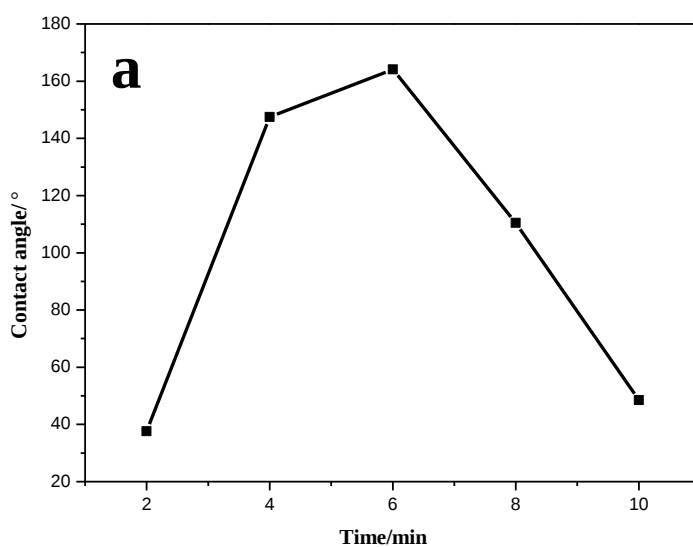


Supplementary Information

Robust dendritic Ag-Fe₂O₃/Fe surfaces with exquisite catalytic properties

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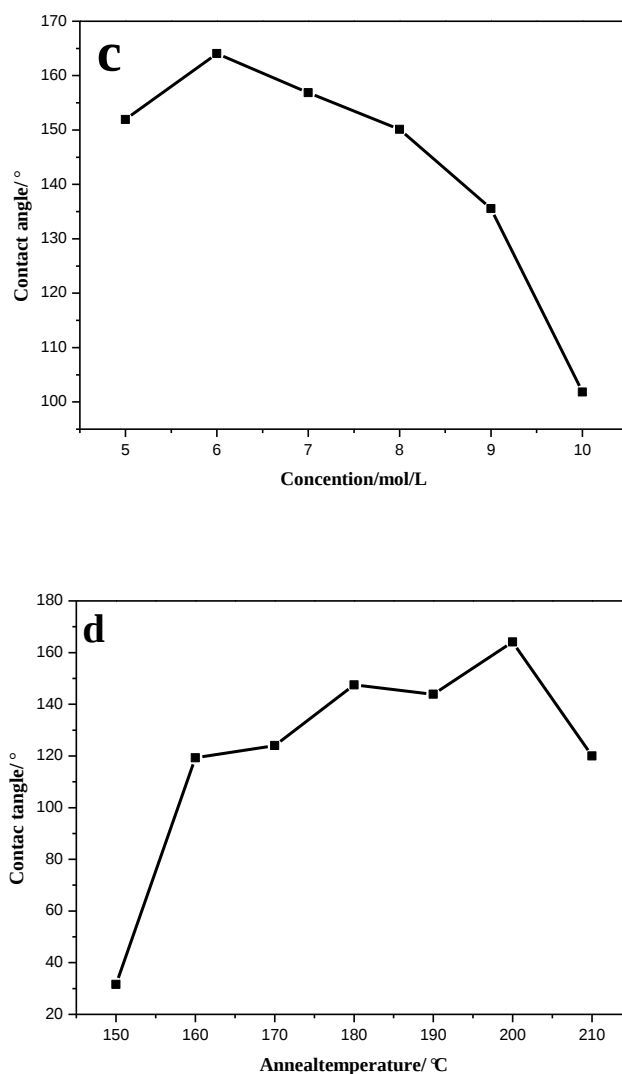


Fig.S1 Variation in the water contact angles of the sample surfaces with the different of: (a) etching time in 6 mmol L^{-1} AgNO_3 solution, at a given reaction time of 30 min annealing temperature of 200 °C, annealing time of 30 min. (b) reaction time in 6 mmol L^{-1} AgNO_3 solution at a given etching time of 6 min, annealing time of 30 min, annealing temperature of 200 °C. (c) concentration of AgNO_3 solution in reaction time of 30 min, etching time of 6 min, annealing temperature of 200 °C, annealing time of 30 min. (d) annealing temperature in 6 mmol L^{-1} AgNO_3 solution at a given reaction time of 30 min, etching time of 6 min ,annealing time of 30 min.