Electronic Supplementary Information (ESI)

Precious-Metal-Free Fe-Intercalated Carbon Nitride Porous-Network with Enhanced Activity for Oxygen Reduction Reactions and Methanol-Tolerant Oxygen Reduction Reactions

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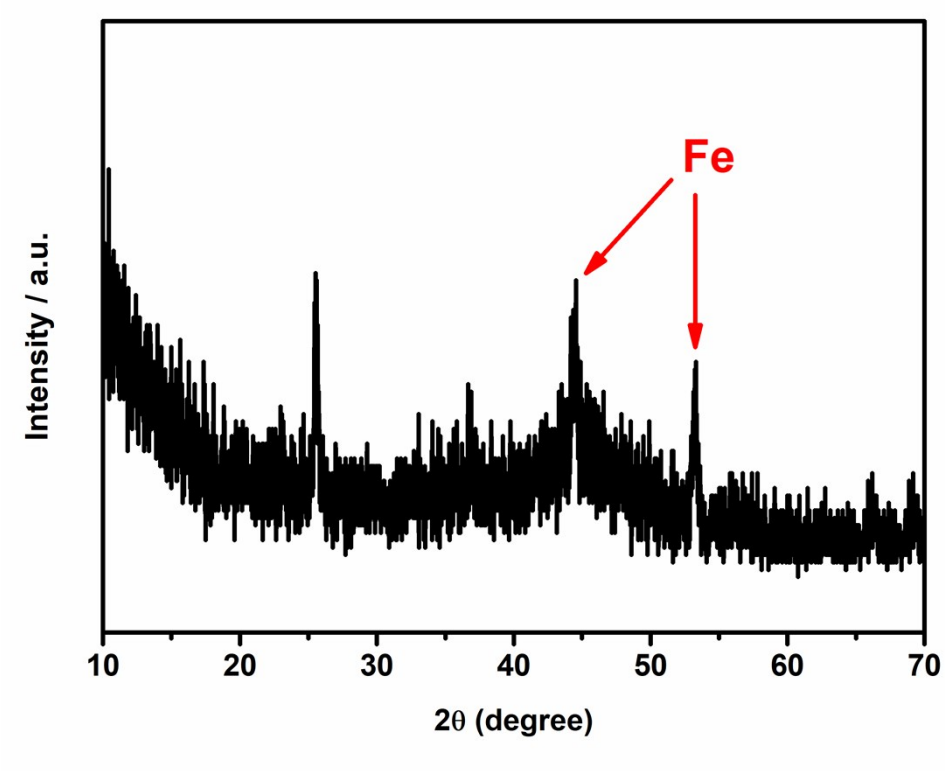

Fig. S1: XRD analysis of Fe-N-C 800 °C catalyst before acid leaching.

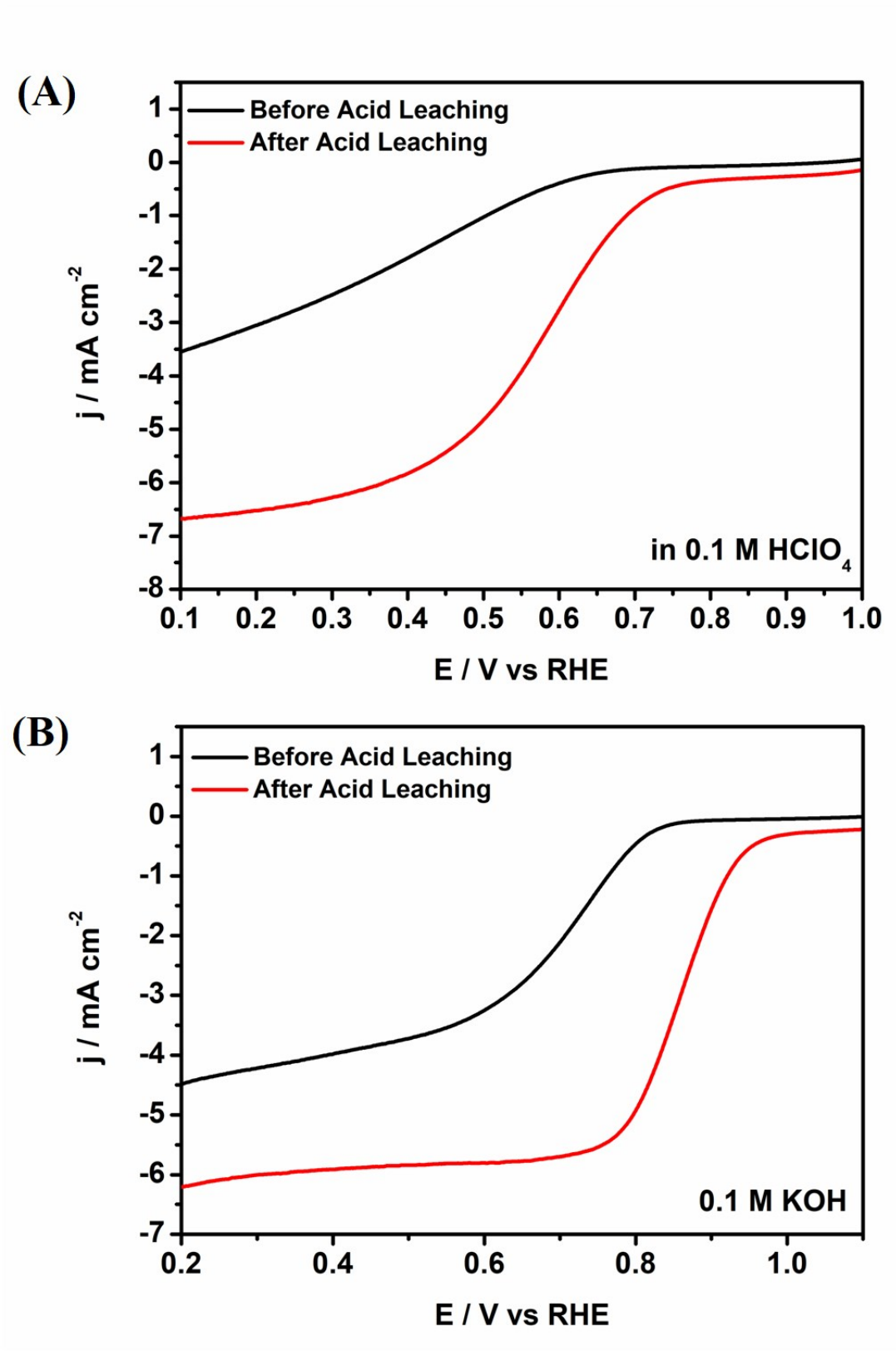

Fig. S2: Comparison of ORR performance of Fe-N-C 800 ^{o}C catalyst, **(A)** in acidic medium & **(B)** in alkaline medium.

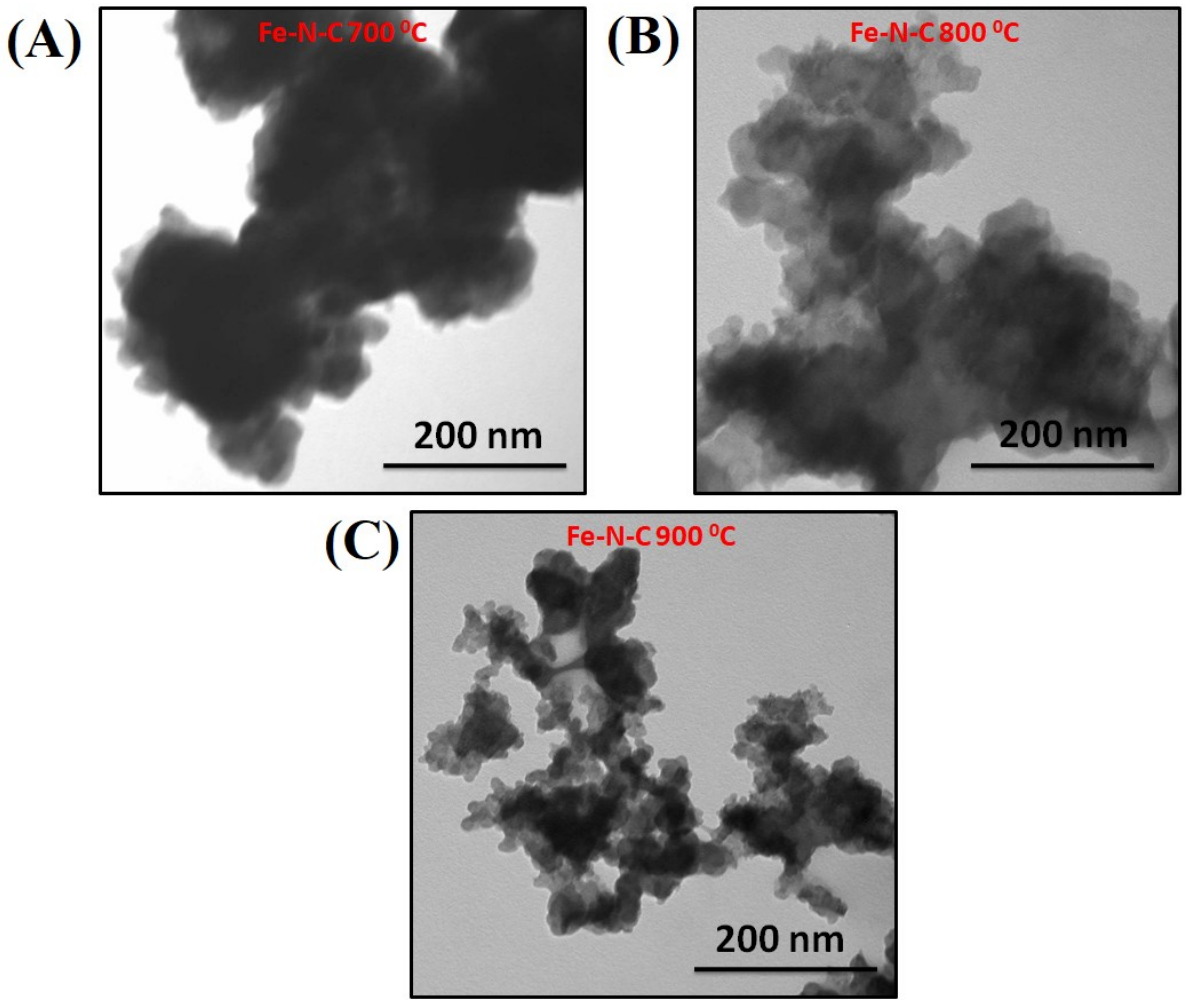

Fig. S3: Comparison of TEM analysis for Fe-N-C catalysts synthesized at three different temperatures **(A)** at 700 °C **(B)** at 800 °C and **(C)** at 900 °C.

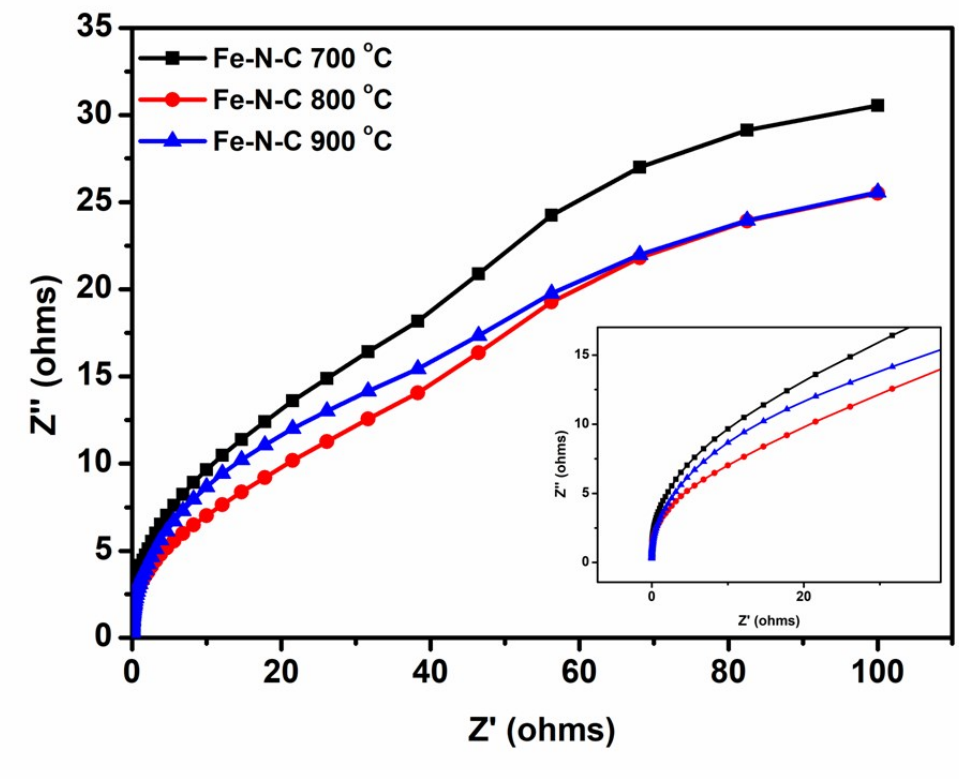

Fig. S4: Comparison of EIS performance of Fe-N-C 700 ^{o}C, Fe-N-C 800 ^{o}C and Fe-N-C 900 ^{o}C catalysts.

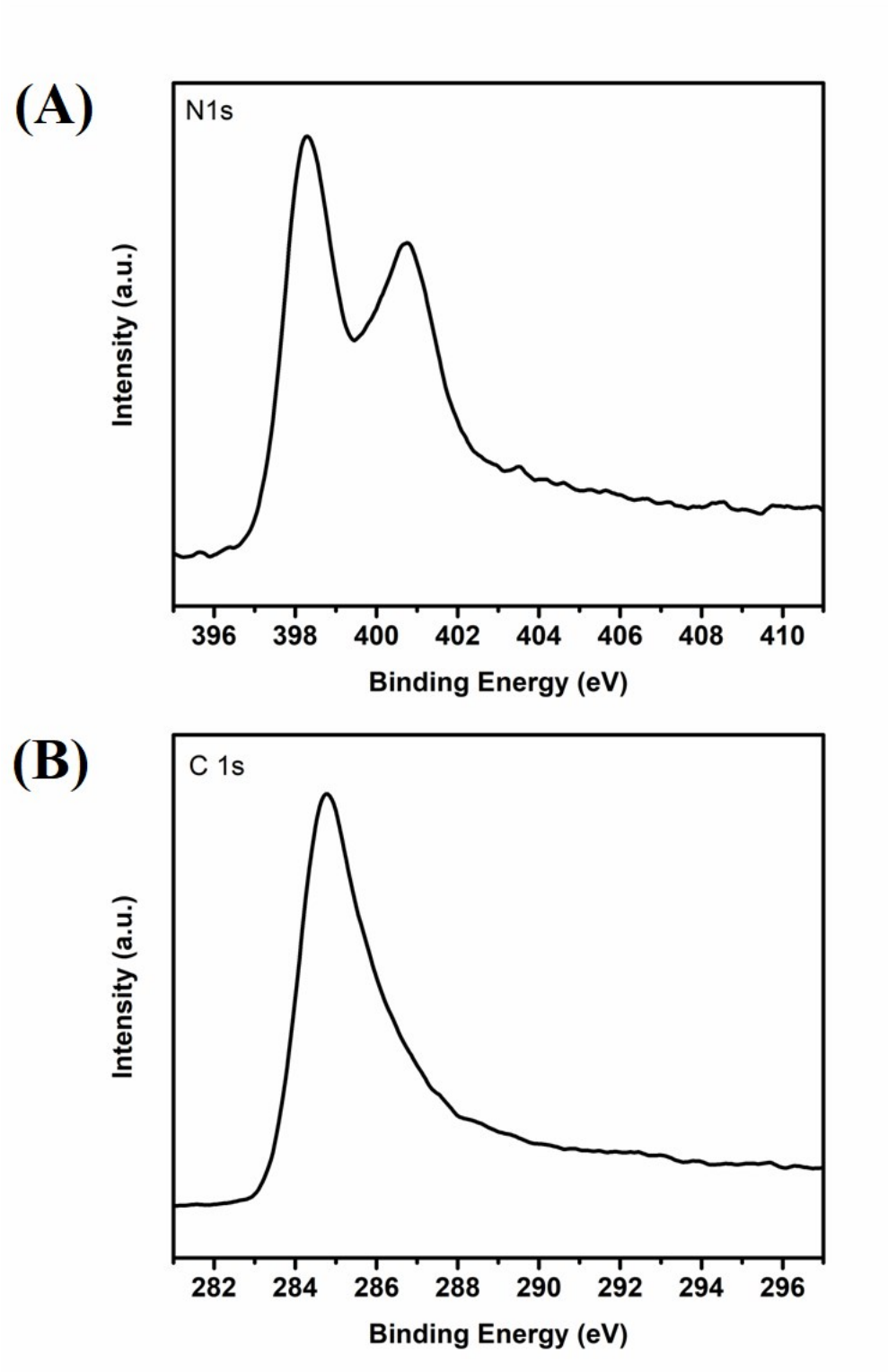

Figure S5: XPS analysis of MCA template after its calcinations to develop C-N material for comparison, (A) presenting high resolution N1s scan and (B) high resolution C1s scan.