Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supplementary Information

ALD of Pt nanotube arrays supported on carbon fiber cloth as high-performance electrocatalyst for methanol oxidation

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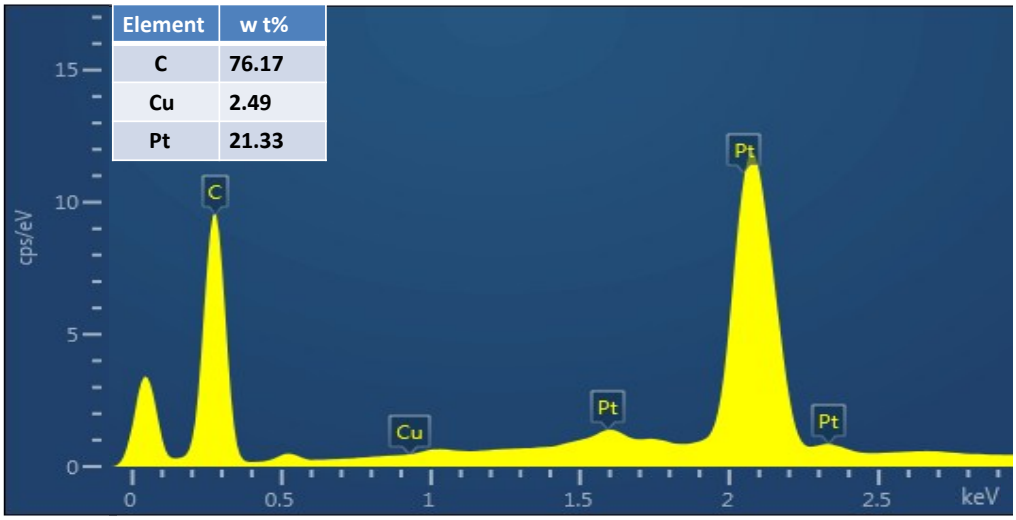

Figure S1 EDX spectra of the Pt NTAs /CFC

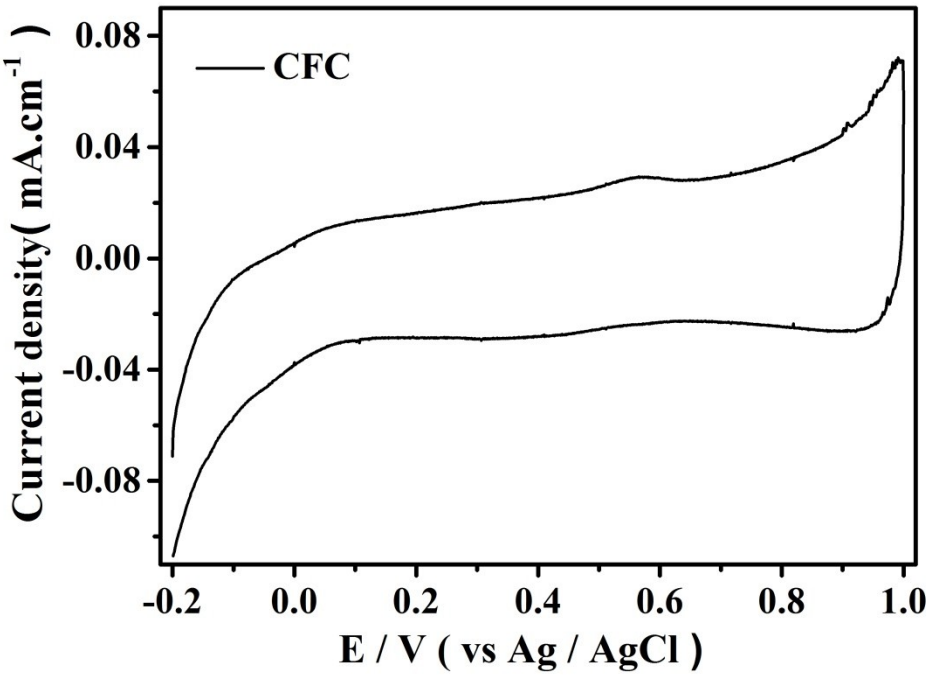

Figure S2 CVs of bare carbon cloth subsrate in 0.5 M CH_3OH + 0.5 M H_2SO_4 at 50 mV/s

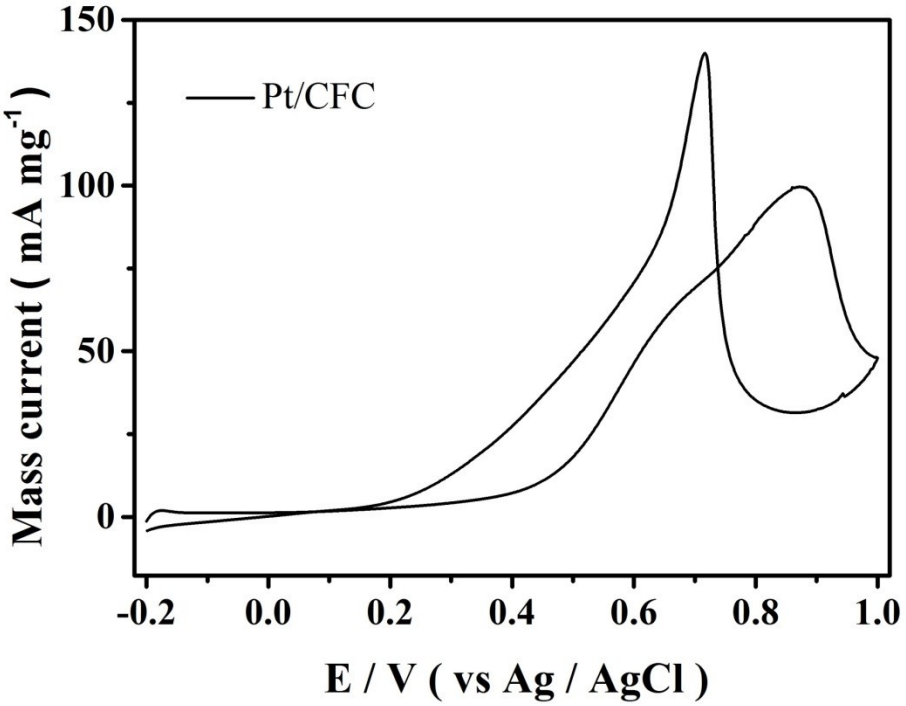

Figure S3 CVs of 200C Pt /CFC in 0.5 M CH_3OH + 0.5 M H_2SO_4 at 50 mV/s.

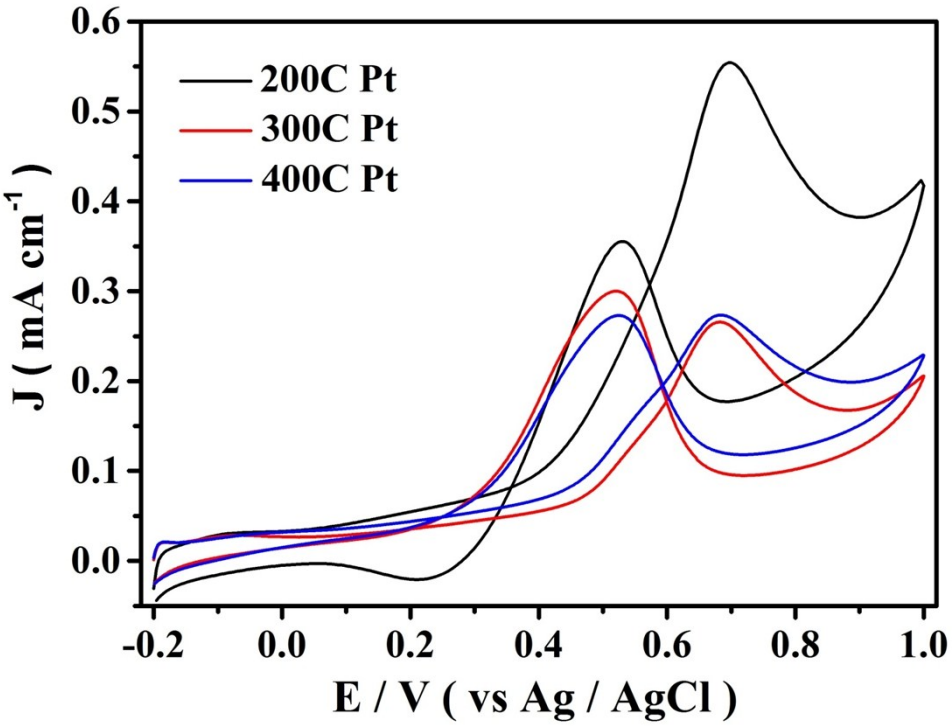

Figure S4. CVs of 200C Pt NTAs/CFC, 300C Pt NTAs/CFC and 400C Pt NTAs/CFC in the solution of 0.5 M CH_3OH + 0.5 M H_2SO_4 at 50 mV/s.(the current densities all are normalized to the ECSAs of catalysts)

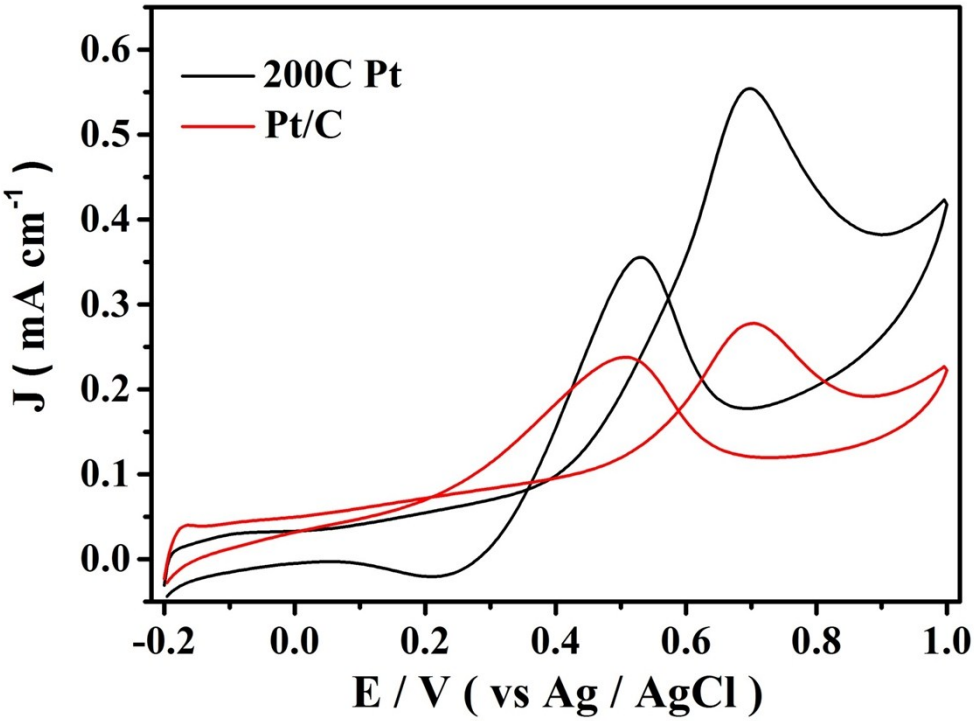

Figure S5. CVs of 200C Pt NTAs/CFC and Pt/C/CFC in the solution of 0.5 M CH_3OH + 0.5 M H_2SO_4 at 50 mV/s.(the current densities all are normalized to the ECSAs of catalysts)

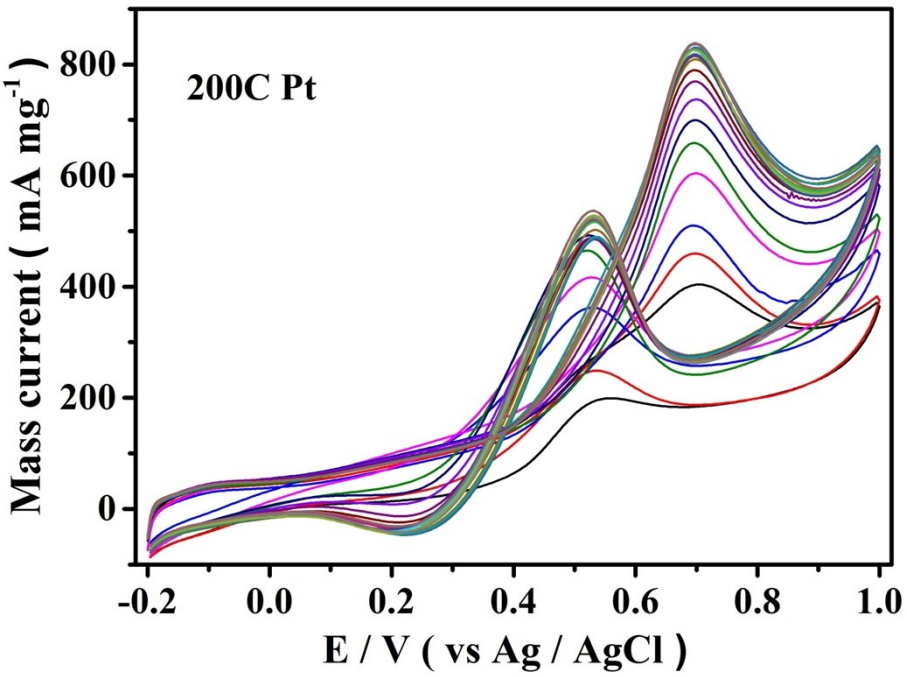

Figure S6 CVs of 200C Pt NTAs/CFC catalyst from the 1st to the 200th cycle in the solution of 0.5 M CH_3OH + 0.5 M H_2SO_4 at 50 mV/s.

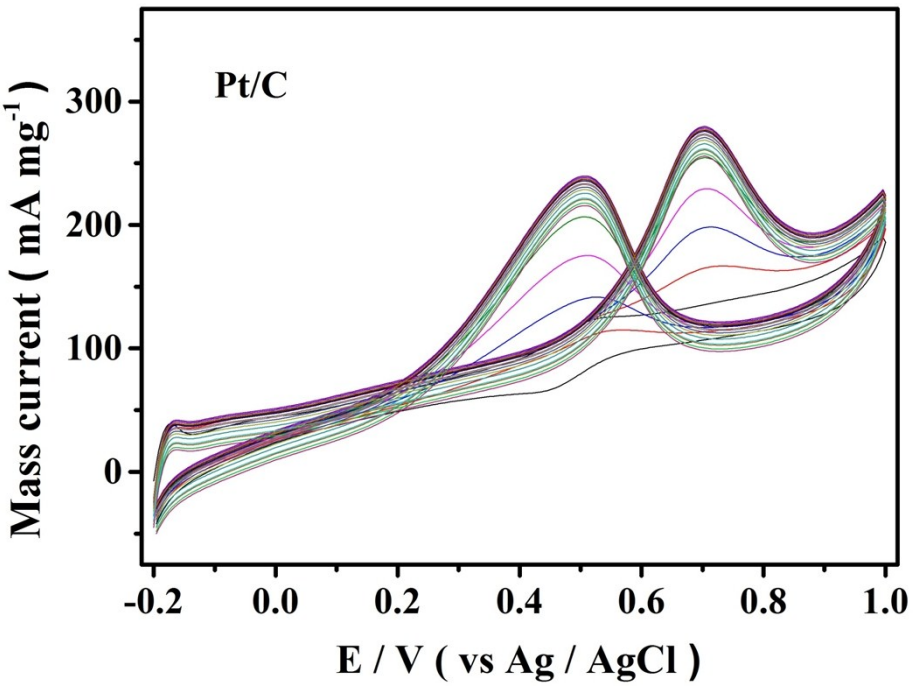

Figure S7 CVs of Pt/C/CFC catalyst from the 1st to the 200th cycle in the solution of 0.5 M CH_3OH + 0.5 M H_2SO_4 at 50 mV/s.