Electronic supplementary information of FD164

**Electroanalysis using modified hierarchical nanoporous carbon materials**

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**Figure S1**
Scanning electron microscopy of an opal formed by SiO$_2$ nanoparticles.

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**Figure S2**
High resolution microscopy of a sPC with PtRu nanoparticles.
Figure S3.

CV at 60 °C in 1 M CH₃OH / 1 M H₂SO₄ for PtRuNP-sPC. v = 20 mVs⁻¹
Figure S4.
(A) cyclic voltammogram and (B) DEMS signal of adsorbed CO on a porous vitreous carbon electrode loaded with Pt nanoparticles. Electrolyte = 0.5 M H₂SO₄. Scan rate = 1 mV/s
Figure S5.
Cyclic voltammogram of a dPC electrode loaded with Pt decorated magnetite nanoparticles in deaerated 0.5 M H₂SO₄.