

Supplementary document

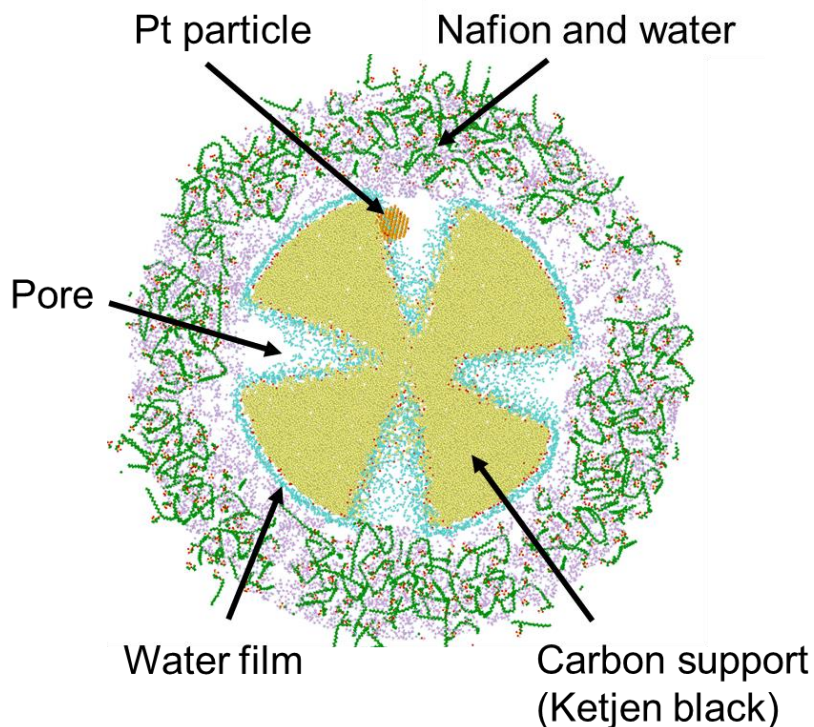


Fig. 1 Cross-sectional view of CP model

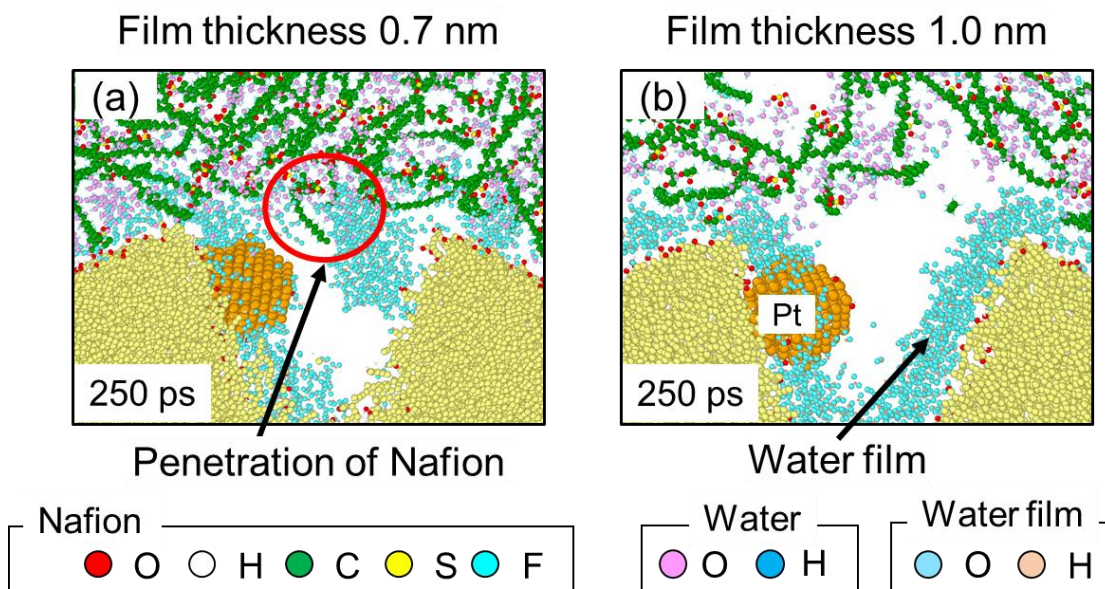


Fig. 2 Coverage state of Nafion over the Pt nanoparticle in the interior of the pore when the thickness of water film is (a) 0.7 and (b) 1.0 nm, respectively.