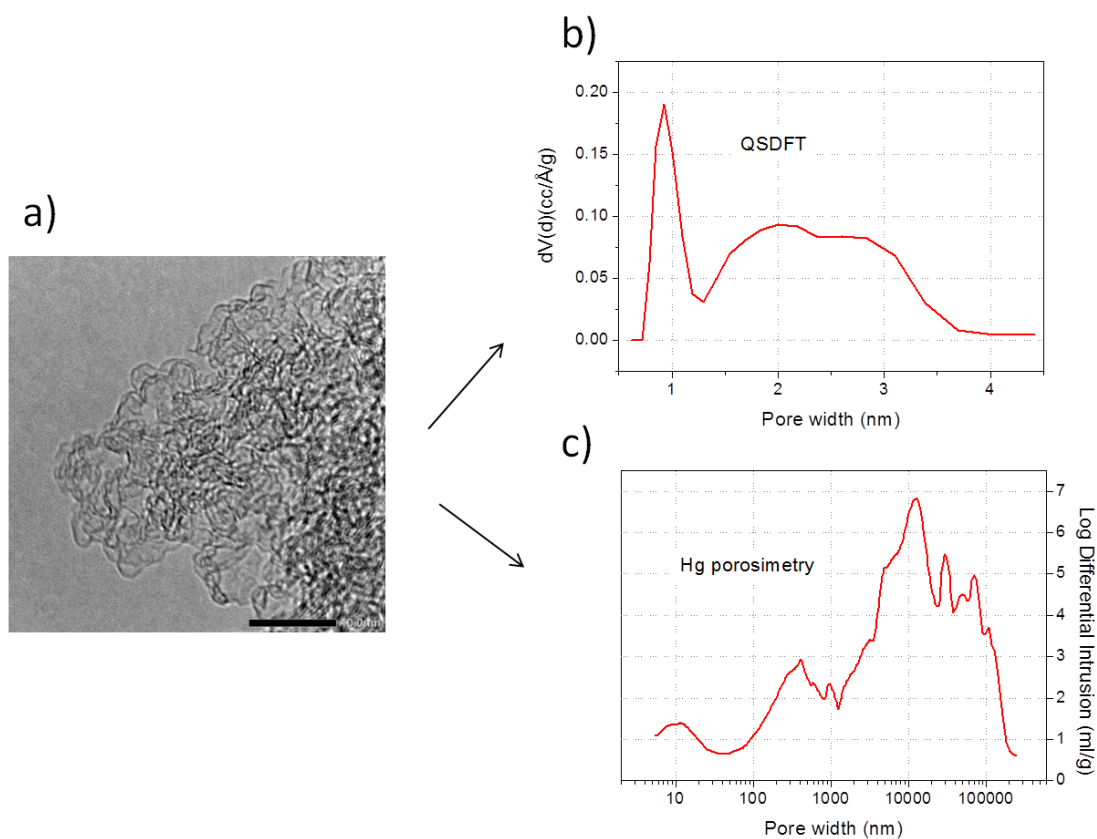
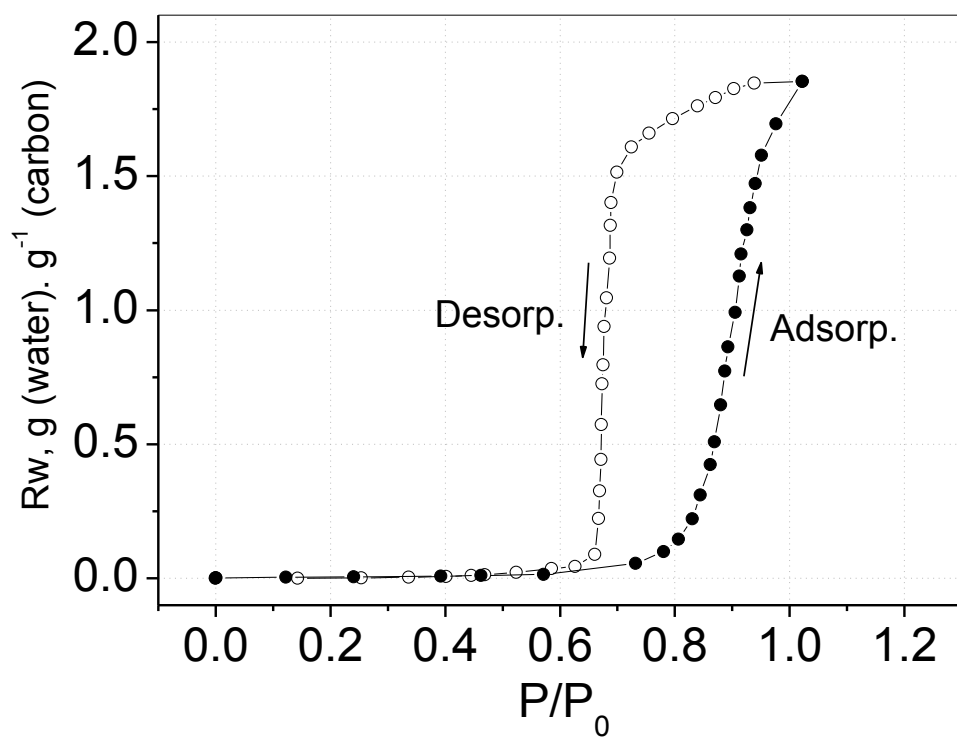
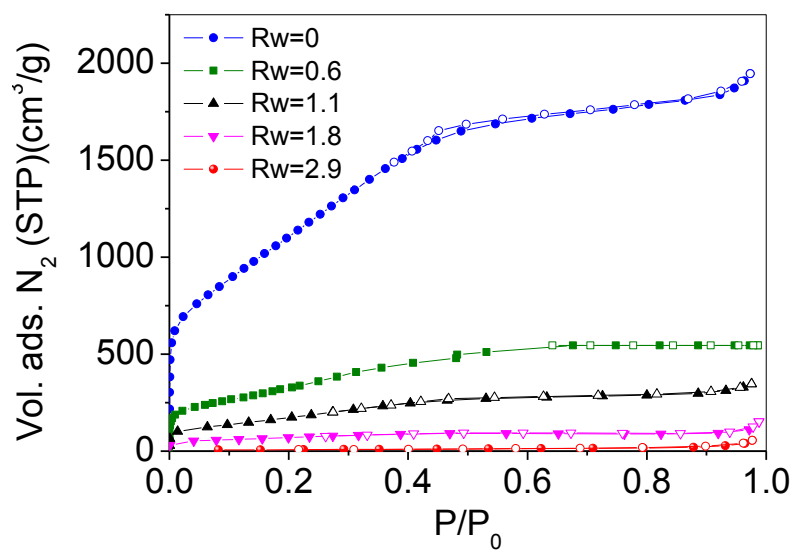




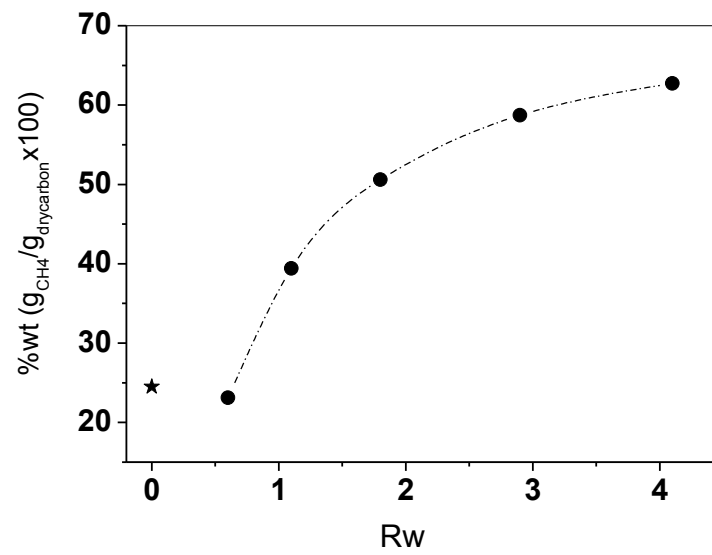
Supplementary Figure-1. (a) TEM image, (b) Pore size distribution after applying Quenched Solid Density Functional Theory (QSDFT) method to the nitrogen adsorption data at -196°C , and (c) Mercury porosimetry, for nanoporous carbon PP-AC.



Supplementary Figure-2. Water vapor adsorption/desorption isotherm for the nanoporous sample PP-AC at 25°C.



Supplementary Figure-3. Nitrogen adsorption/desorption isotherms at -196°C for dry and wet PP-AC.



Supplementary Figure-4. Variation of the amount of methane adsorbed (weight basis) versus water dose ratio (R_w).