

K-looping Catalytic Pyrolysis of the Original and Pelletized Biomass for In-situ Tar Reduction and Porous Carbons Production

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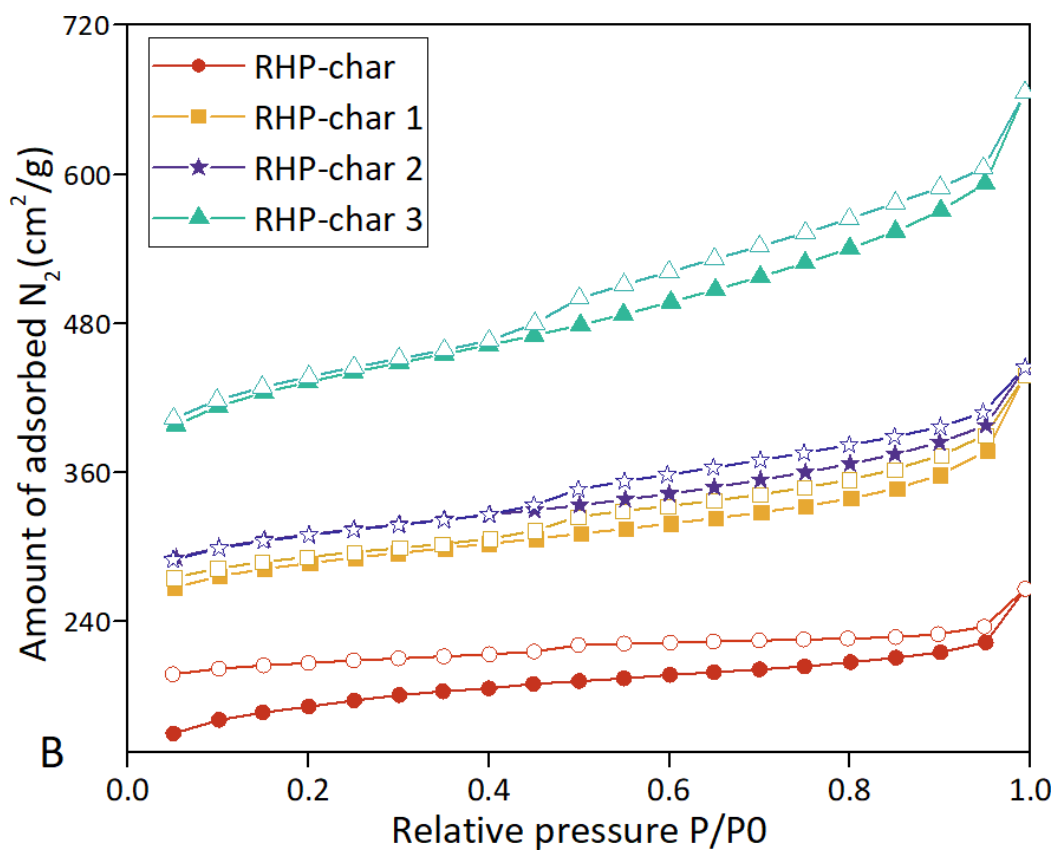
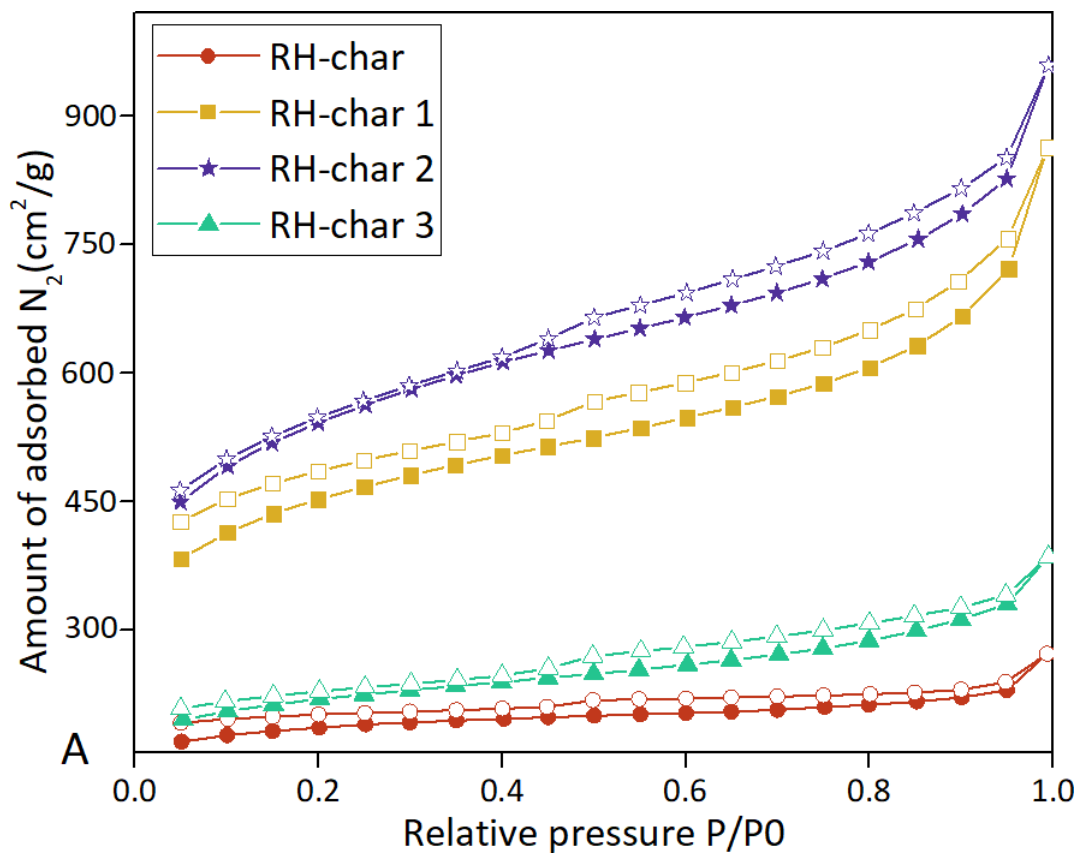


Fig. S1 N_2 adsorption-desorption isotherms of the RH-chars and RHP-chars

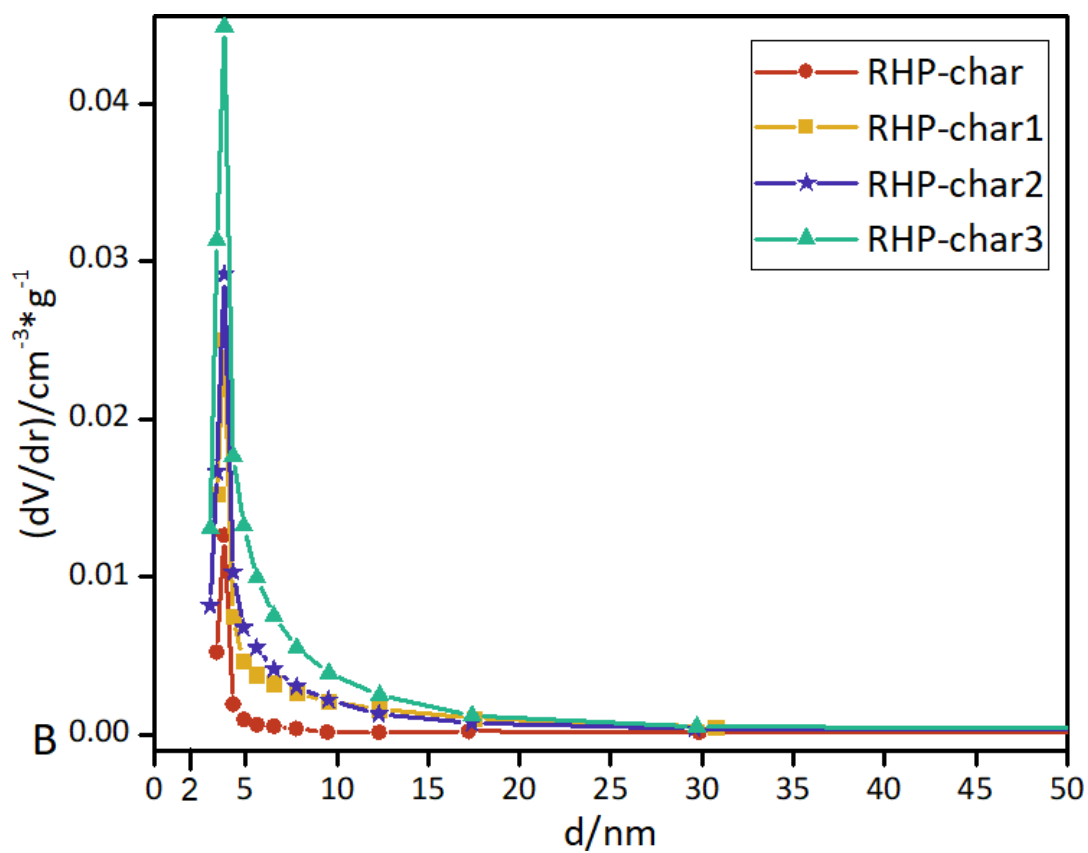
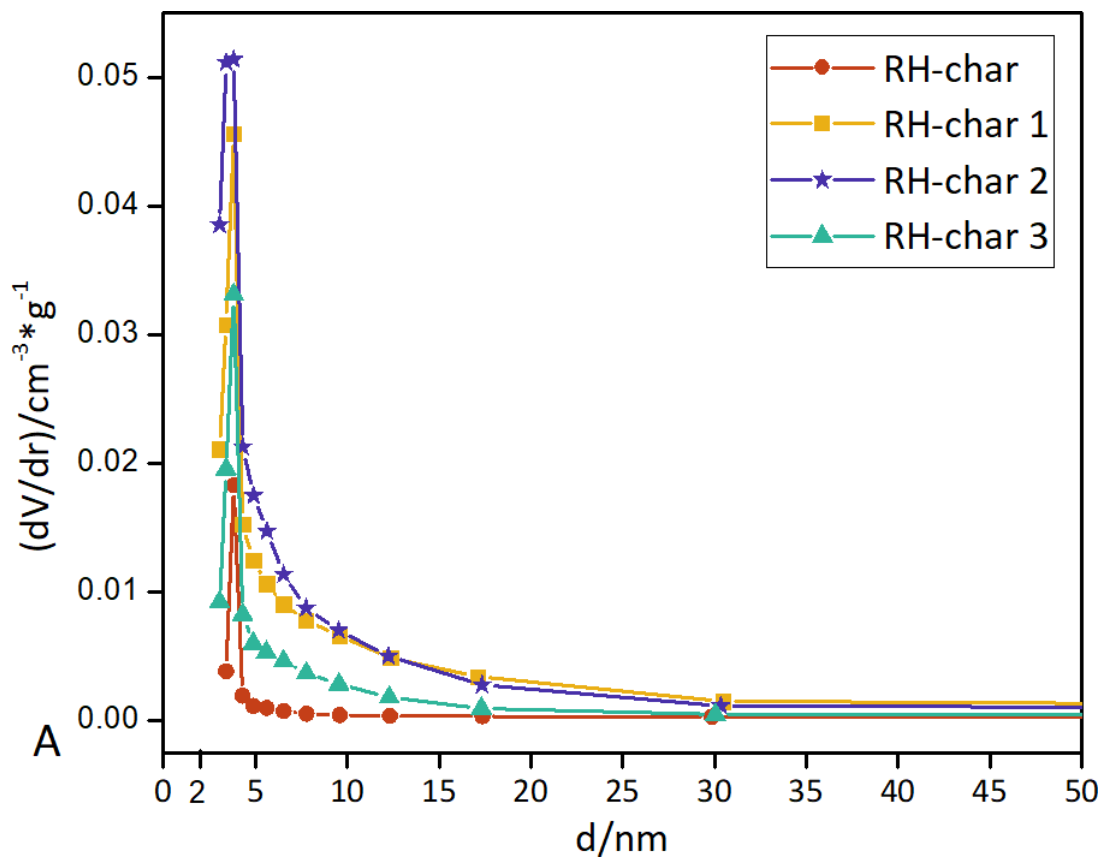


Fig. S2 Pore size distributions calculated from the desorption isotherms of the RH-chars and RHP-chars

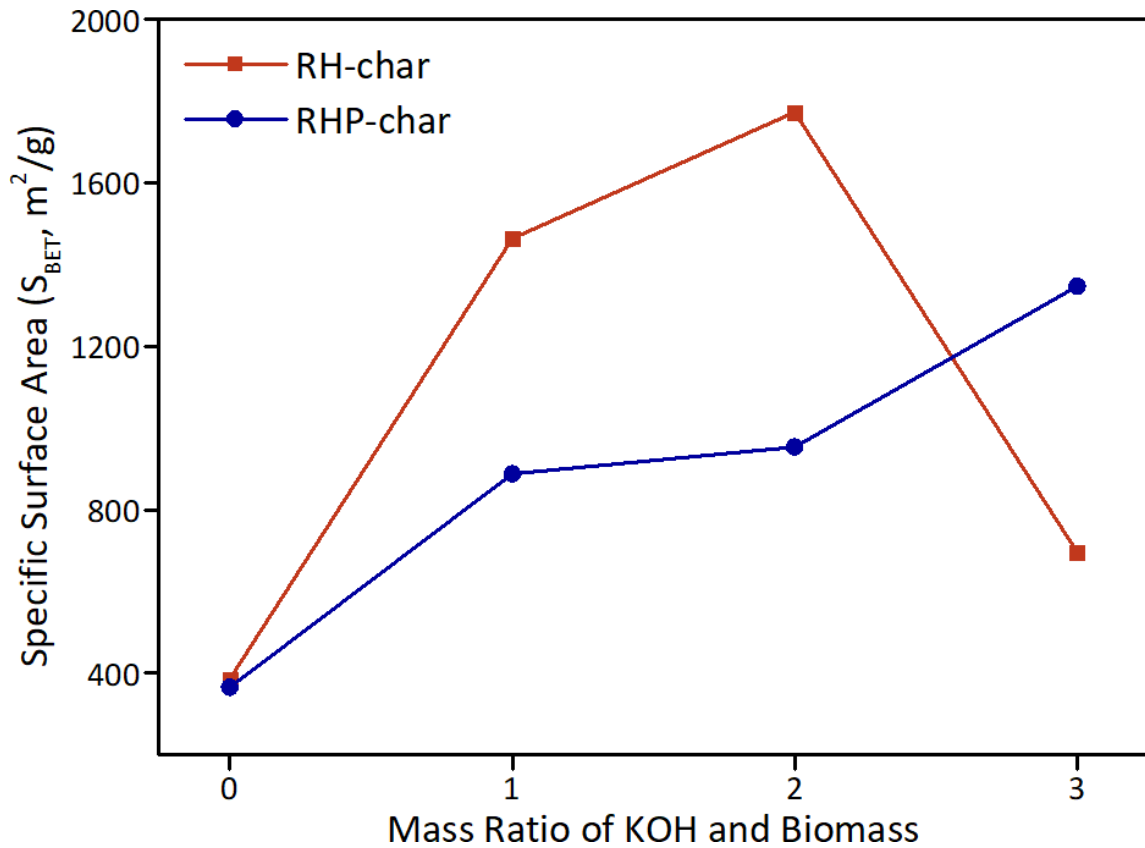


Fig. S3 Specific surface area (S_{BET}) of RH and RHP derived chars

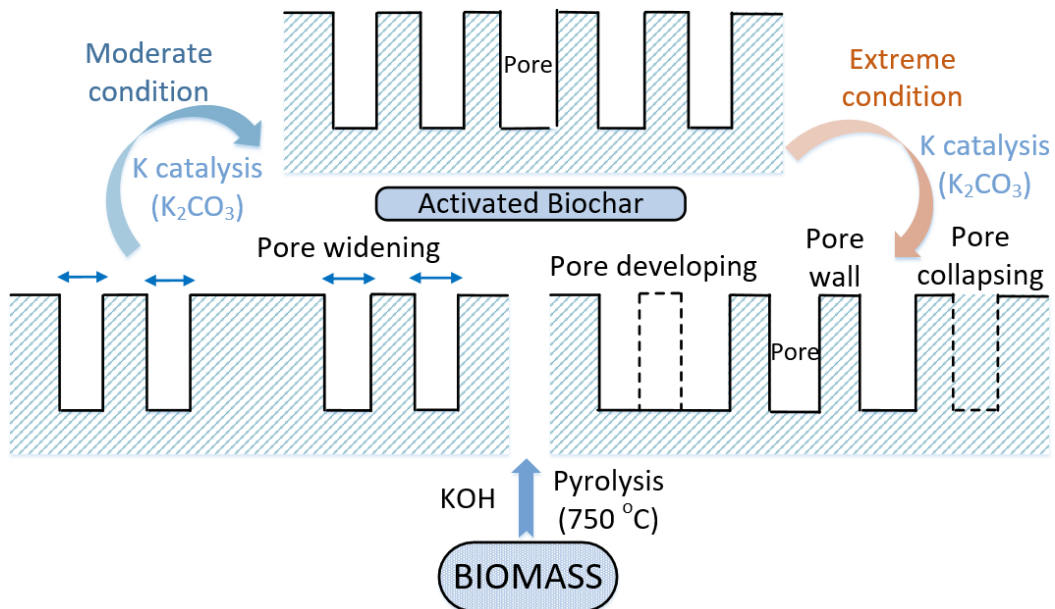


Fig. S4 Mechanism of activated biochar production via co-pyrolysis biomass with KOH

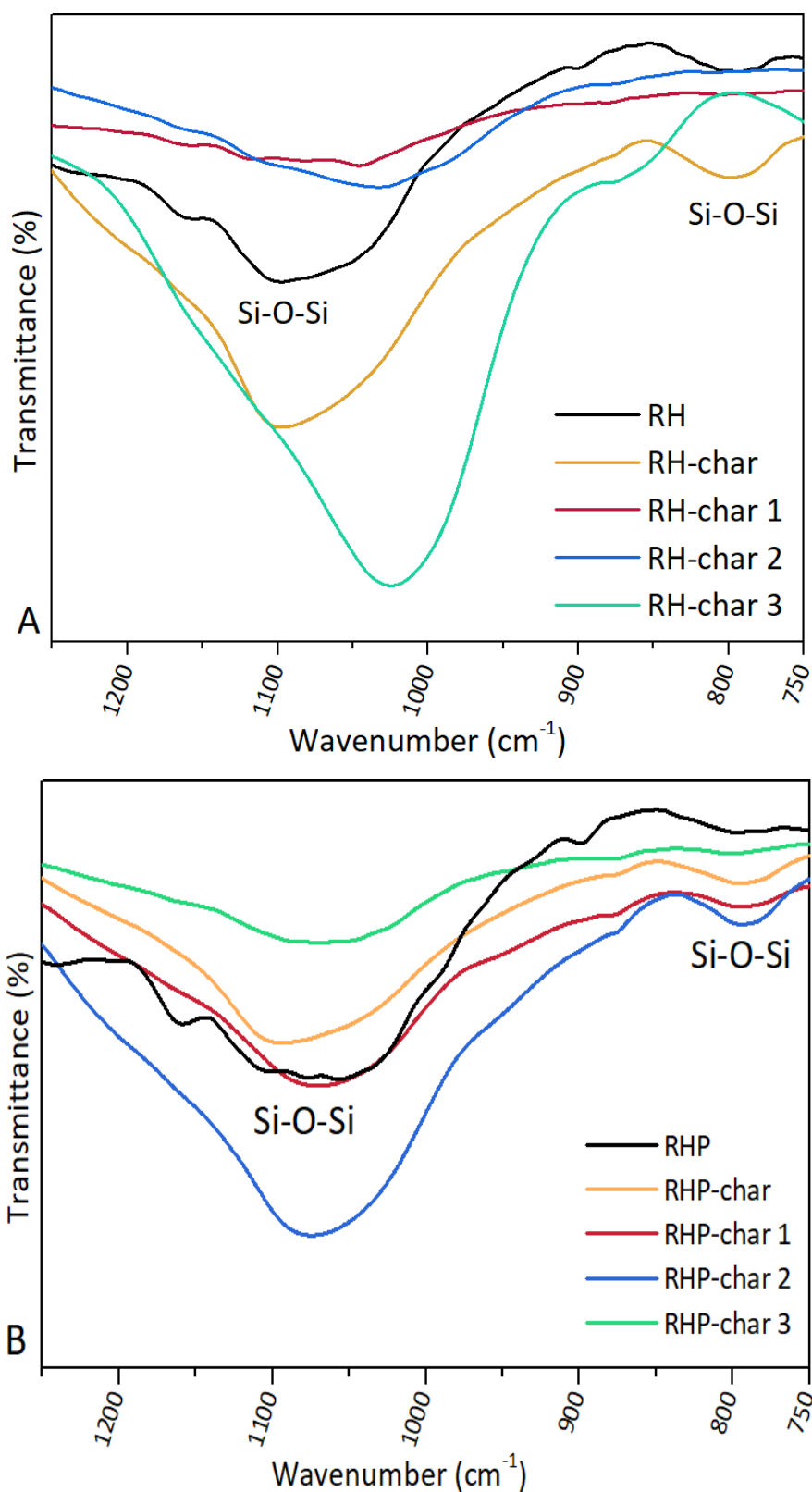


Fig. S5 IR spectrum (750-1250 cm^{-1}) of biomass and bio-char from RH (A) and RHP (B)