

Influence of CO₂ Exposure on High-Pressure Methane and CO₂ Adsorption on Various Rank Coals: Implications for CO₂ Sequestration in Coal Seams

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Supporting Information Contents:

Supplemental Figures S1-S4

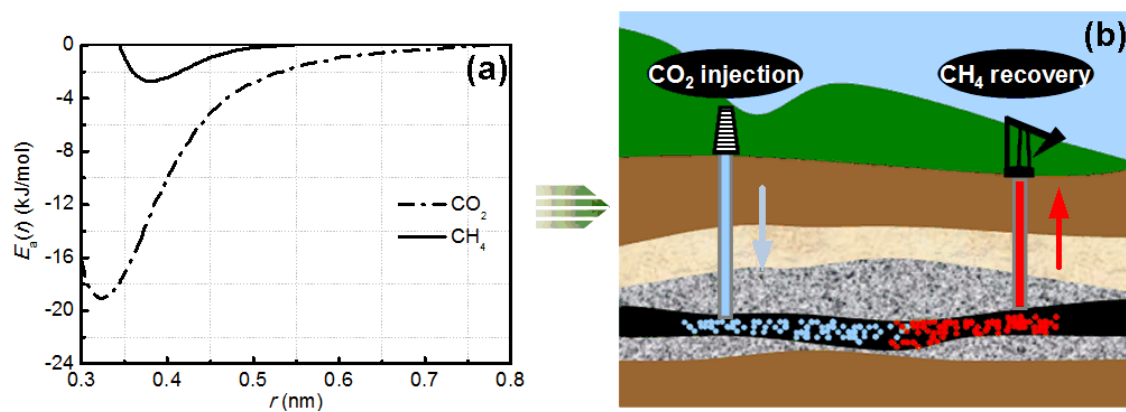


Figure S1. (a) Adsorption potential well of methane and CO_2 ; (b) Schematic diagram of CO_2 -ECBM.

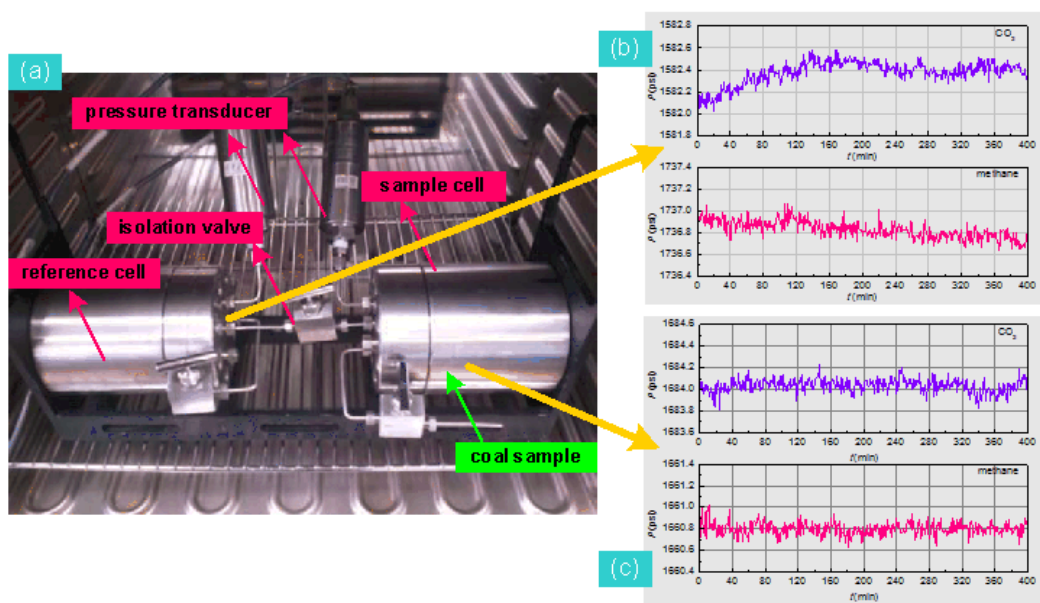


Figure S2. Schematic diagram of volumetric method for measuring methane and CO_2 equilibrium adsorption capacity.

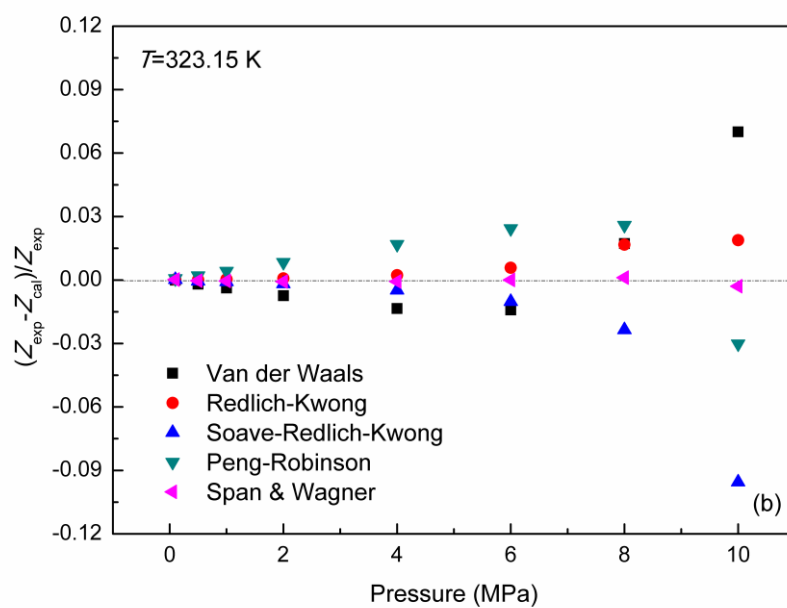
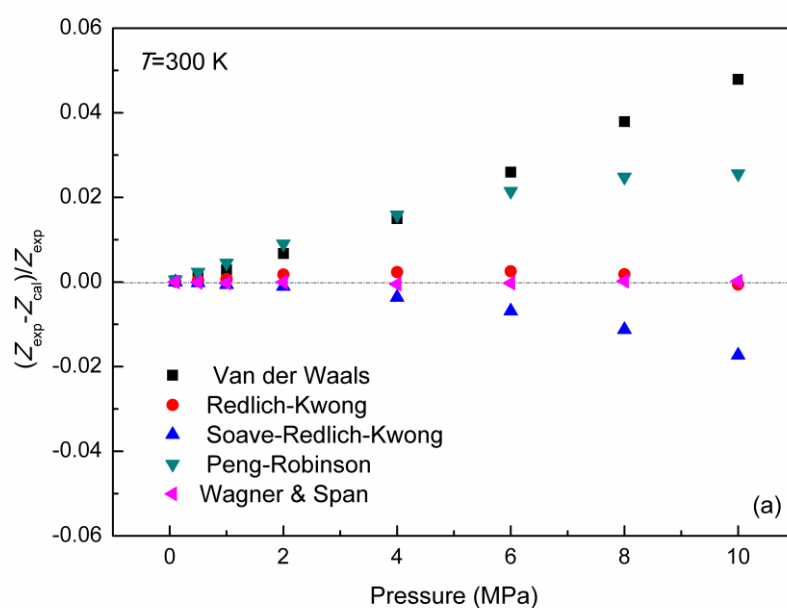


Figure S3. (a) Relative deviation of the compressibility factor of methane calculated by various equations of state; (b) Relative deviation of the compressibility factor of CO_2 calculated by various equations of state.

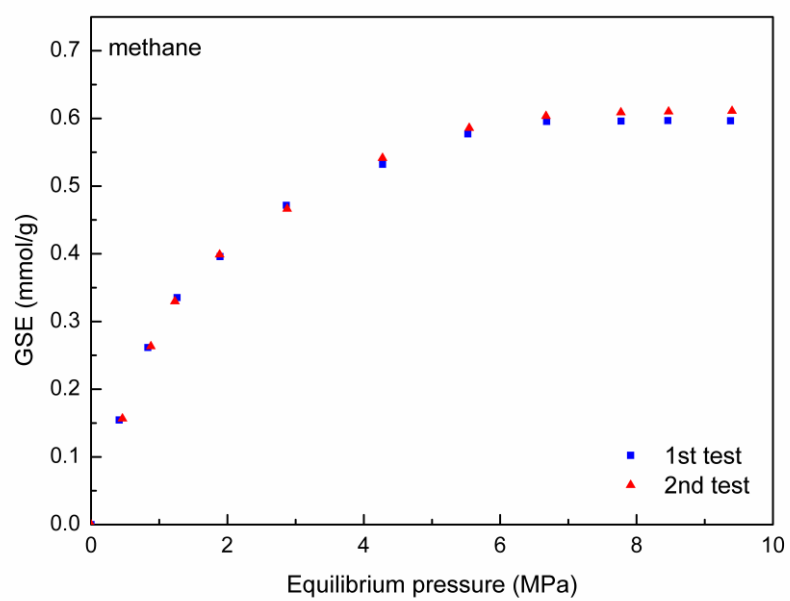


Figure S4. Reproducibility test of high-pressure adsorption isotherm of HB coal sample, $T=45^{\circ}\text{C}$.