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Revisiting the adsorption equilibrium equations of silica gel/water for adsorption cooling applications

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Highlights

- Discrepancies among common adsorption isotherms of silica-gel/water are addressed
- New coefficients for the D-A model are proposed to eliminate these disagreements
- Experimental setup is built to measure the sorption kinetics and equilibrium uptake
- Adsorption isotherms of silica-gel 2060 and RD/water are measured experimentally
- The characteristic energy of D-A model is set as a function of relative pressure

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