

Efficient solar-driven carbon dioxide capture system for greenhouse using graphene-contained deep eutectic solvents Tianwen Guo a, Dahai Zhu a c, Chenggong Zhao a b, Yang Xu a, ...

As photosynthesis progresses, the concentration of CO₂ within greenhouses rapidly declines, significantly impairing crop growth. In light of the prevailing limitations associated with complex ...

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??,?????????????????Separation and Purification Technology?(JCR??,?????TOP,IF= 8.6)?????????"Efficient solar-driven carbon dioxide ...

Application experiments were conducted to optimize the graphite nanofluids in the greenhouse solar collectors. Firstly, five heat transfer media were selected as the water, titanium dioxide, silicon ...

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The deep eutectic solvent (DES) is selected as the primary CO₂ adsorption material, and reduced graphene oxide (rGO) is incorporated as a photothermal conversion material to enable ...

