

Supplementary information

Two-Dimensional Carbon Dioxide with High-stability, Negative Poisson's Ratio and Huge Band Gap

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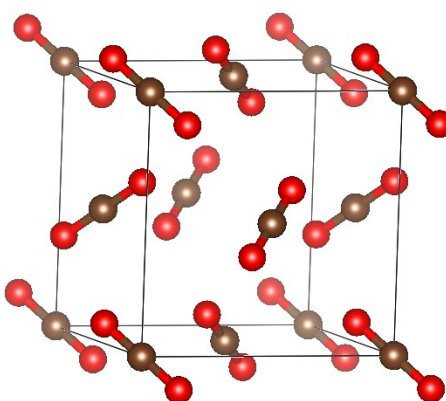


Figure S1. The structure of the ambient phase of solid CO₂ (dry ice) (Acta Cryst. B 36, 2750–2751 (1980)).

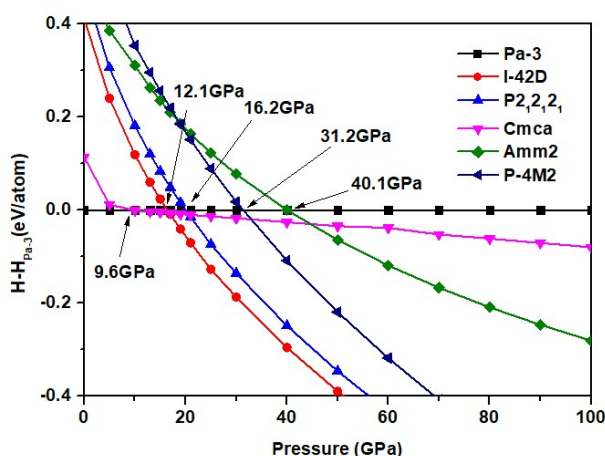


Figure S2. Calculated enthalpies of difference structures of CO₂ as a function of pressure. The enthalpy of the ambient phase (Pa-3) of solid CO₂ is used as the zero-

enthalpy reference. I-42D, $P2_12_12_1$ and Cmca are high pressure phases of CO₂ that have been reported (Science 283, 1510 (1999); Physical Review Letters 83, 5527 (1999)).