

Supplementary Information (SI) for Physical Chemistry Chemical Physics.
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Supplementary Information for

A new carbon allotrope with high carrier mobility and optical absorption

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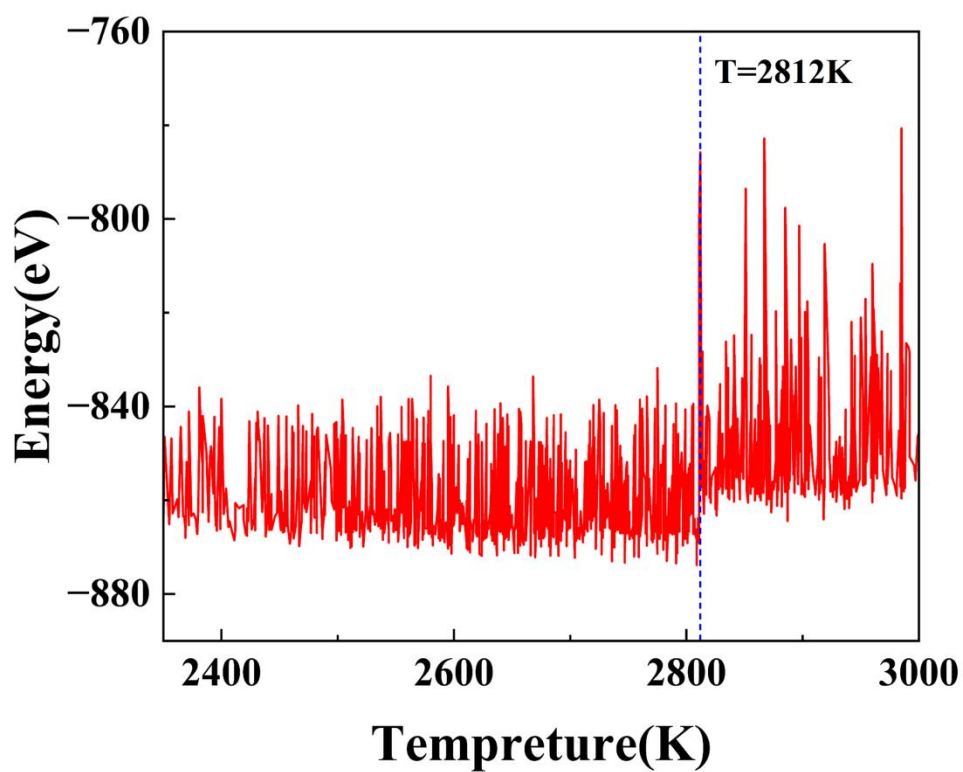
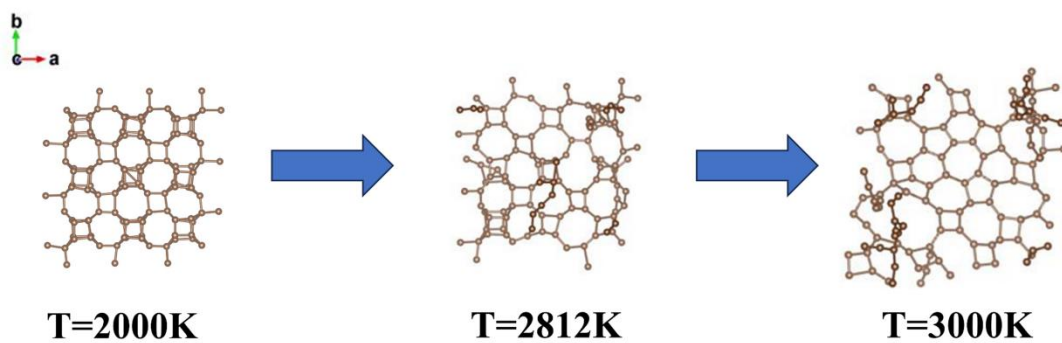


Fig. S1 Variation of structure and energy with temperature.