

Abstract Submitted
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Experimental Measurement of Thermal Expansion Coefficient of few layer graphene LEI JING, university of californina, riverside, WENZHONG BAO, University of Maryland, College Park, HOON CHO, FENGLIN WANG, CHUN NING(JEANIE) LAU, university of californina, riverside — In contrast to most materials, graphene has negative thermal expansion coefficient (TEC), which has important implications on device applications. We experimentally measure the TEC of single- and few-layer graphene by suspending them across predefined trenches, and monitoring their sagging arc lengths during cooling via in situ SEM imaging. Latest experimental data will be discussed and compared to theoretical models.

Lei jing
university of californina, riverside

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