

Electronic Supplementary Information

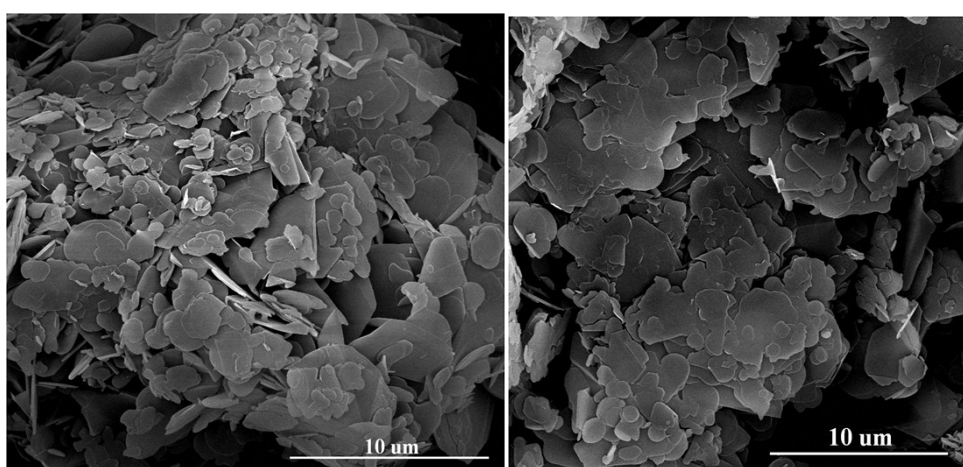
Novel Photodriven Composite Phase Change Materials with Bioinspired Modification of BN for Solar Thermal Energy Storage

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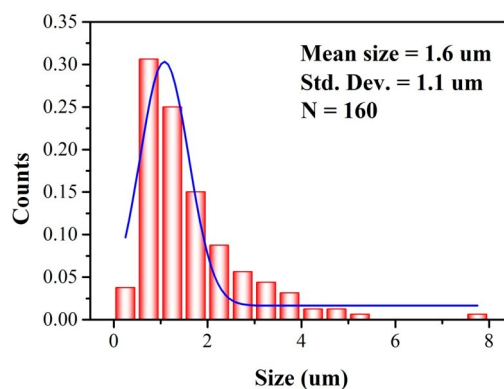
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(a)

(b)



(c)

Fig. S1 (a)-(b) SEM image of pristine BN microplatelets and (c) lateral size distribution of the platelets. The average lateral size was 1.6 ± 1.1 μm by counting 160 flakes.

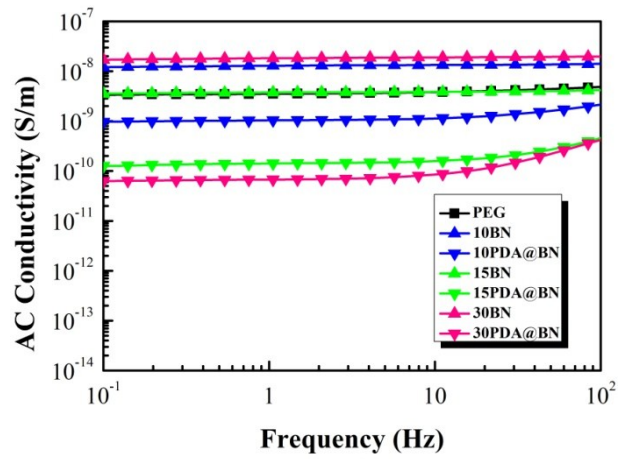


Fig. S2 The AC conductivity of the PEG and the composite PCMs.

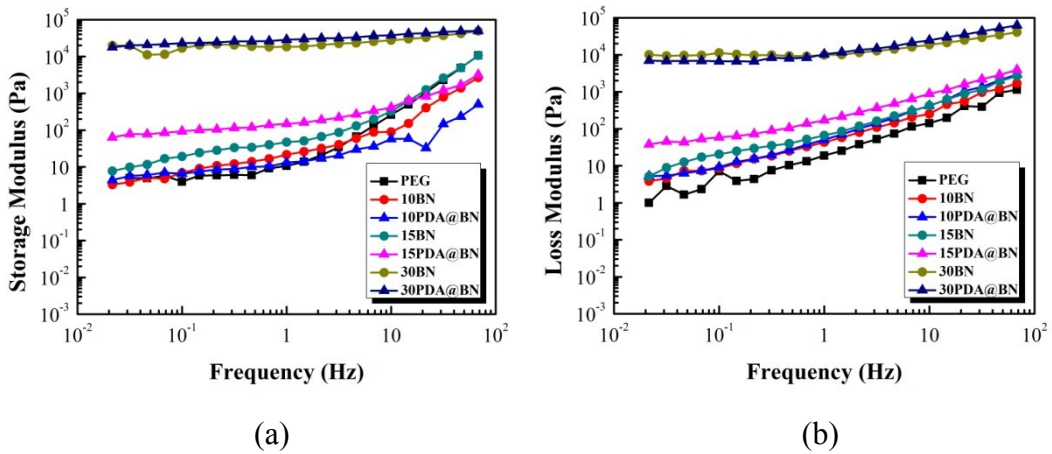


Fig. S3 Storage modulus (a) and loss modulus (b) plotted as a function of frequency for PEG, PEG/BN and PEG/PDA@BN composite PCMs.

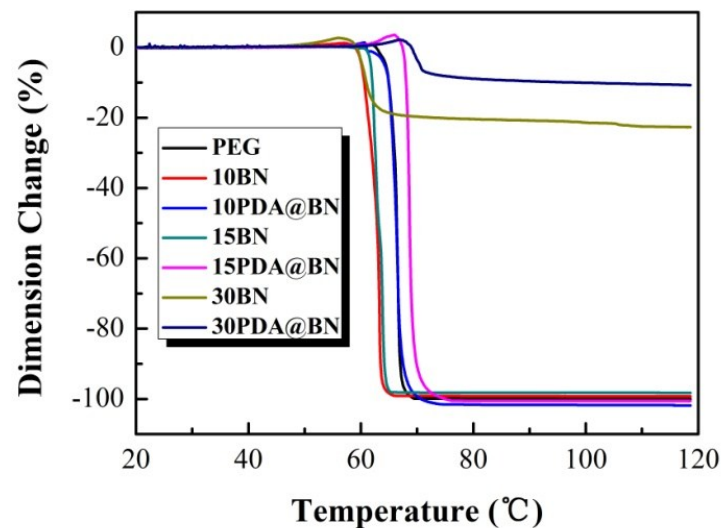


Fig. S4 TMA curves of PEG, PEG/BN and PEG/PDA@BN composite PCMs.

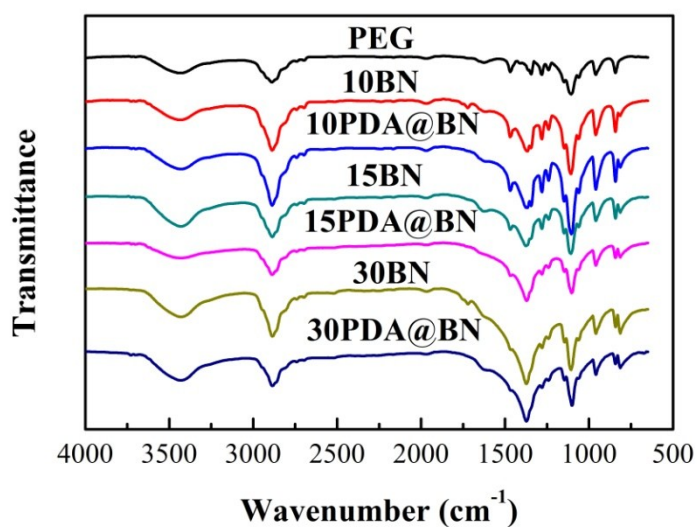


Fig. S5 FTIR spectrum of PEG, PEG/BN and PEG/PDA@BN composite PCMs.