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Title: Origin of (001) orientation and superlattice structure identification in L10-FePt/B4C multilayer thin films

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**Origin of (001) orientation and superlattice structure identification in  $L1_0$ -FePt/B<sub>4</sub>C  
multilayer thin films**

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- 1) Providing a new insight to the origination of (001) texture in FePt thin films;
- 2) Identifying the formation of superlattice structure of  $L1_0$  ordered FePt;
- 3) The in-plane tensile strain is induced by the diffusion of B and C atoms;
- 4) The in-plane tensile strain stabilizes the (001) texture of  $L1_0$  FePt.

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