

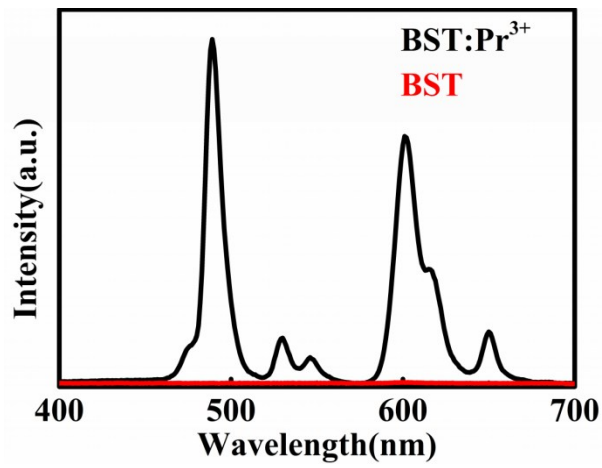
Supplementary Information

Novel optical temperature sensor based on emission in Pr³⁺ doped ferroelectric Ba_{0.7}Sr_{0.3}TiO₃

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Supplementary Fig.S1 PL of BST and BST:Pr³⁺

Fig. S1 shows the intrinsic BST almost have no PL properties relative to BST:Pr³⁺. It can be inferred that the PL of BST:Pr³⁺ is derived from Pr³⁺.