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A new non-contact self-calibrated optical thermometer based on  ${\rm Ce}^{3+} \to {\rm Tb}^{3+} \to {\rm Eu}^{3+}$  energy transfer process

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## ACCEPTED MANUSCRIPT

## **Graphic Abstract**



A new optical thermometry strategy based on the  $Ce^{3+} \rightarrow Tb^{3+} \rightarrow Eu^{3+}$  energy migration process has been proposed, which provides a promising approach to design a non-contact self-calibrated optical thermometer with high temperature sensitivity and good signal discriminability.

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