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Photoluminescence, photoacoustic, and scintillation properties of Te^{4+}-doped Cs_2HfCl_6 crystals

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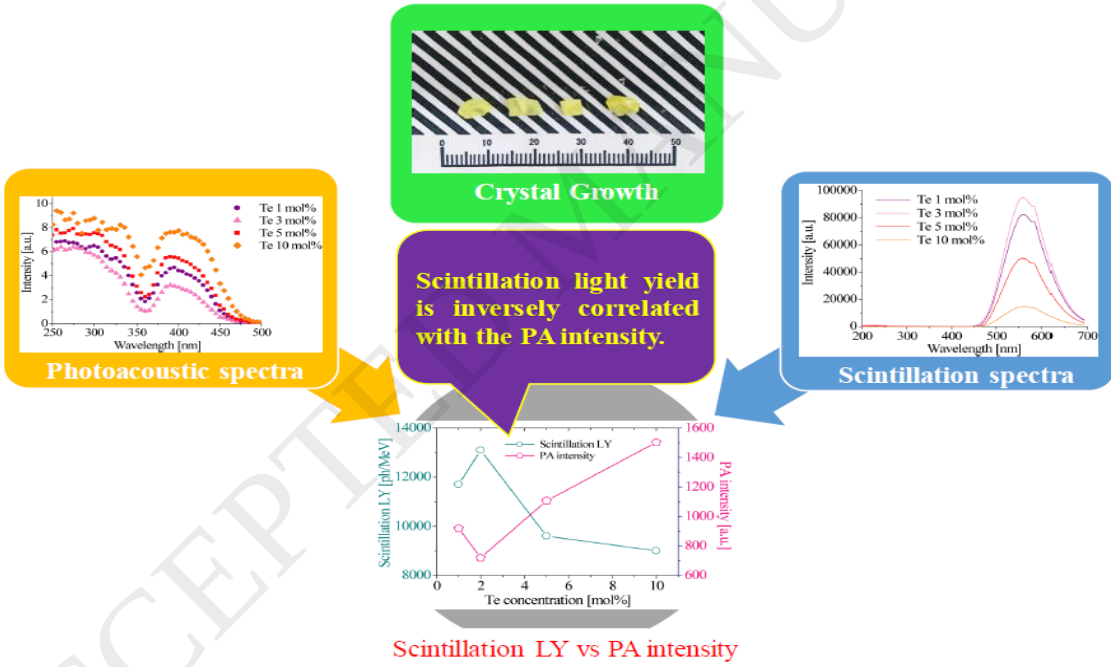
Graphical abstract



Highlights

- Cs_2HfCl_6:Te^{4+} crystals were grown using the vertical Bridgman–Stockbarger method.
- The PL, PA, and scintillation properties of the crystals were characterized.
- An inverse correlation between scintillation LY and PA intensity was confirmed.

Abstract

Photoluminescence, photoacoustic, and scintillation properties are reported for 1.0, 3.0, 5.0, and 10