

# Accepted Manuscript

Tailoring bandgap and trap distribution via Si or Ge substitution for Sn to improve mechanoluminescence in  $\text{Sr}_3\text{Sn}_2\text{O}_7:\text{Sm}^{3+}$  layered perovskite oxide

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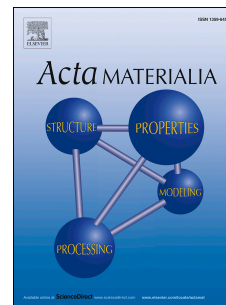
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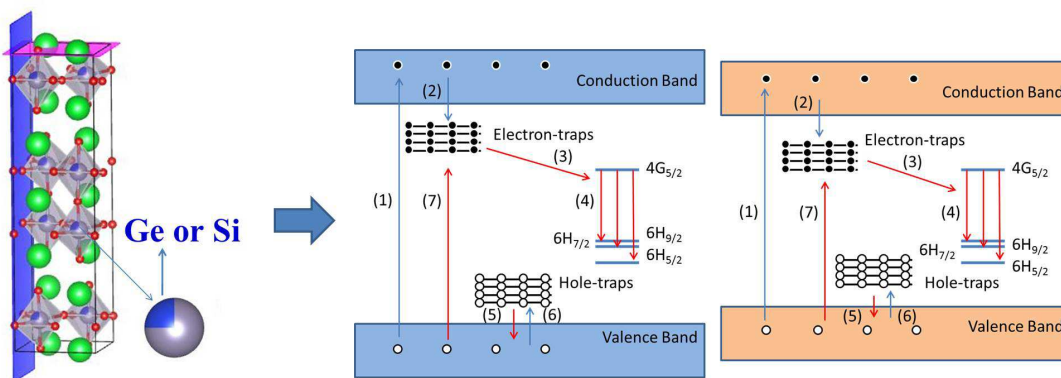
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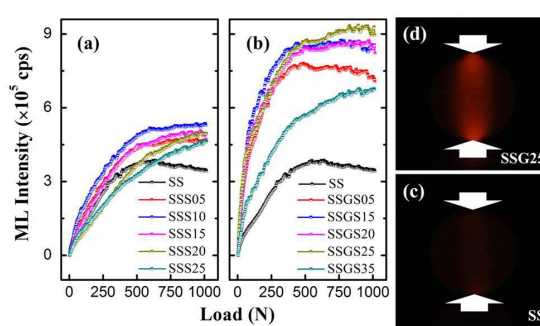
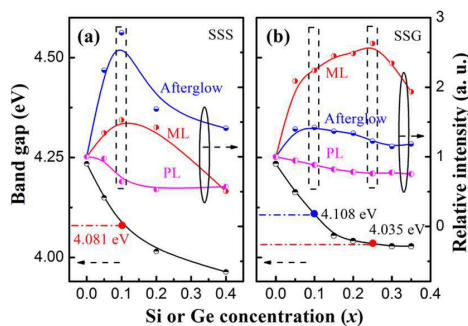
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### Elemental substitution on Sn's site

### Bandgap and trap distribution



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