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**Tailoring UV-Blue Sensitization Effect in Enhancing Near Infrared Emission in X, Yb³⁺:
CaGa₂O₄ (X= 0, Eu³⁺, Bi³⁺, Cr³⁺) Phosphor for Solar Energy Conversion**

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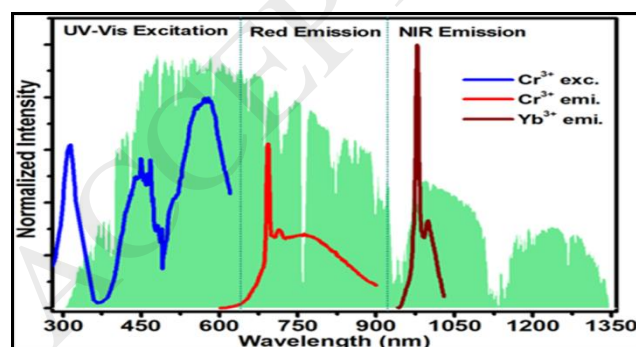
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Graphical Abstract:



The spectral conversion characteristics of Cr³⁺/Yb³⁺:CaGa₂O₄ phosphor over the standard solar background for enhancing the efficiency of c-Si solar cells.

Highlights:

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