

# JOURNAL OF SOLID STATE CHEMISTRY

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Cover figure: The Zintl phase  $\text{Eu}_7\text{Ga}_6\text{Sb}_8$  features infinite chains of  $[\text{Ga}_6\text{Sb}_8]^{14-}$  which are arranged in sheets. The chains consists of homoatomic tetramers  $(\text{Ga}_4)^{6+}$  and dimers  $(\text{Ga}_2)^{4+}$  connected by Sb atoms. The compound is a narrow band-gap semiconductor with  $E_g \sim 0.6$  eV and satisfies the classical Zintl concept.