

Accepted Manuscript

First-principle calculations of structural, electronic and magnetic investigations of $\text{Mn}_2\text{RuGe}_{1-x}\text{Sn}_x$ quaternary Heusler alloys

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PII: S0577-9073(17)31659-3
DOI: [10.1016/j.cjph.2018.01.015](https://doi.org/10.1016/j.cjph.2018.01.015)
Reference: CJPH 445



To appear in: *Chinese Journal of Physics*

Received date: 24 December 2017
Revised date: 22 January 2018
Accepted date: 28 January 2018

Please cite this article as: F. Semari , F. Dahmane , N. Baki , Y. Al-Douri , S. Akbudak , G. Uğur , Ş. Uğur , A. Bouhemadou , R. Khenata , C.H. Voon , First-principle calculations of structural, electronic and magnetic investigations of $\text{Mn}_2\text{RuGe}_{1-x}\text{Sn}_x$ quaternary Heusler alloys, *Chinese Journal of Physics* (2018), doi: [10.1016/j.cjph.2018.01.015](https://doi.org/10.1016/j.cjph.2018.01.015)

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- DFT calculations for Mn_2RuGe , Mn_2RuSn and their quaternary $\text{Mn}_2\text{RuGe}_{1-x}\text{Sn}_x$ Heusler alloys.
- Structural and magnetic investigation for Mn_2RuGe and Mn_2RuSn .
- Half metallic behavior is explained via spin polarization results.
- Electronic properties for quaternary Heusler alloys were studied.

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