

Accepted Manuscript

Computational investigations of mechanical and dynamical properties of gold-based compounds (X_3Au , $X=Ti$, Zr and V)

Selgin AL , Nihat ARIKAN , Mustafa ÖZDURAN , Ahmet İYİGÖR

PII: S0577-9073(18)30419-2
DOI: [10.1016/j.cjph.2018.06.001](https://doi.org/10.1016/j.cjph.2018.06.001)
Reference: CJPH 547



To appear in: *Chinese Journal of Physics*

Received date: 20 March 2018
Accepted date: 2 June 2018

Please cite this article as: Selgin AL , Nihat ARIKAN , Mustafa ÖZDURAN , Ahmet İYİGÖR , Computational investigations of mechanical and dynamical properties of gold-based compounds (X_3Au , $X=Ti$, Zr and V), *Chinese Journal of Physics* (2018), doi: [10.1016/j.cjph.2018.06.001](https://doi.org/10.1016/j.cjph.2018.06.001)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Elastically, $X_3\text{Au}$ ($X=\text{Ti}$, Zr and V) compounds were found to be mechanically stable.
- $X_3\text{Au}$ compounds are ductile in nature.
- The phonon spectra of $X_3\text{Au}$ compounds revealed that they are dynamically stable in the A15 structure.

Download English Version:

<https://daneshyari.com/en/article/8144934>

Download Persian Version:

<https://daneshyari.com/article/8144934>

[Daneshyari.com](https://daneshyari.com)