

## Res. Asst. Mehmet Erzen

### Personal Information

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### Education Information

Doctorate, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2020 - Continues

Postgraduate, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 2015 - 2017

Undergraduate, Van Yüzüncü Yil University, Fen Fakültesi, Fizik Bölümü, Turkey 2010 - 2014

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Exploring electronic, structural, optical, and elastic properties of MgX<sub>2</sub>O<sub>6</sub> (x = Ta, Nb) compounds for photovoltaic and optoelectronic applications: first study effort**  
Aycibin M., Çelebi M., Erzen M., Akkuş H.  
Indian Journal of Physics, vol.98, no.10, pp.3571-3582, 2024 (SCI-Expanded)
- II. **Thermally switchable terahertz absorber based on a VO<sub>2</sub>-included one-dimensional photonic crystal**  
Roumi B., Erzen M., Abdi-Ghaleh R., Akkuş H., Zhou Y., Prajapati Y. K., Cai Y., Maurya J. B.  
Applied Physics A: Materials Science and Processing, vol.129, no.6, 2023 (SCI-Expanded)
- III. **Theoretical prediction by DFT on properties of β'-SrTa<sub>2</sub>O<sub>6</sub> crystal**  
Aycibin M., Erzen M., Akkuş H.  
Processing and Application of Ceramics, vol.17, no.1, pp.1-8, 2023 (SCI-Expanded)
- IV. **Comprehensive theoretical investigation of electronic, structural, optical, elastic, and thermodynamic properties of orthorhombic SrTa<sub>2</sub>O<sub>6</sub> compound**  
Erzen M., Aycibin M., Akkuş H.  
Canadian Journal of Physics, vol.100, no.12, pp.519-525, 2022 (SCI-Expanded)
- V. **Effect of pressure on physical properties of LuAsO<sub>4</sub> crystal**  
Erzen M., Akkuş H.  
MATERIALS RESEARCH EXPRESS, vol.5, no.11, 2018 (SCI-Expanded)
- VI. **Computation of physical properties of ferroelectric RbNbO<sub>3</sub> under pressure**  
Erzen M., Akkuş H.  
FERROELECTRICS, vol.526, no.1, pp.120-139, 2018 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Physical Properties of Piezoelectric Zr<sub>3</sub>GeO<sub>8</sub> Crystal**  
ERZEN M.  
Yüzüncü Yil Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.3, pp.848-856, 2023 (Peer-Reviewed Journal)
- II. **Investigation of Structural, Elastic, and Piezoelectric Properties of NbSbO<sub>4</sub> Crystal**  
ERZEN M.  
Yüzüncü Yil Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.2, pp.370-382, 2023 (Peer-Reviewed Journal)

## **Metrics**

Publication: 8

Citation (Scopus): 9

H-Index (Scopus): 2