

## Res. Asst. ASUMAN CENGİZ

### Personal Information

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### Education Information

Doctorate, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, Turkey 2014 - Continues

Postgraduate, Gebze Technical University, Institute Of Science, Turkey 2011 - 2014

Undergraduate, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, Turkey 2005 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 2014 - Continues

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

- I. **A Study of Thermoelectric Performance of TlGaSe<sub>2</sub> Layered Dichalcogenides from First-Principles Calculations: Vacancy Defects Modeling and Engineering**  
Caydasi M., Mintas M. F. , Chumakov Y. M. , Volz S., Cengiz A., Seyidov M. Y.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, 2021 (Journal Indexed in SCI)
- II. **Mott barrier behavior of metal-TlGaSe<sub>2</sub> layered semiconductor junction**  
Kandemir B. B. , Goren S., Erdem M., Cengiz A., Sale Y., Fedotov A. K. , Mammadov T. G. , Seyidov M. Y.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.35, no.12, 2020 (Journal Indexed in SCI)
- III. **Origin of the optical absorption of TlGaSe<sub>2</sub> layered semiconductor in the visible range**  
Cengiz A., Chumakov Y. M. , Erdem M., Sale Y., Mikailzade F. A. , Seyidov M. Y.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.33, no.7, 2018 (Journal Indexed in SCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Franz-Keldysh effect in the TlGaSe<sub>2</sub> layered semiconductors in the condition of an external uniform electric field and after crystal poling**

OKUMUŞ E., CENGİZ A., SEYİTSOY M.

Türk Fizik Derneği 35.Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019

**II. Optical Absorption Characteristics of TlGaSe<sub>2</sub> Layered Semiconductor in the Visible Spectral Region: Experimental and Theoretical Investigations**

CENGİZ A., Chumakov Y., ŞALE Y., mammadov t, MİKAİLZADE F., SEYİTSOY M.

Modern Trends in Condensed Matter Physics MTCMP 2018, Baku, Azerbaijan, 24 - 26 October 2018

**III. The effect of defect density wave on optical properties of TlGaSe<sub>2</sub> ferroelectric - semiconductor near the fundamental electronic band gap. theoretical and experimental results**

CENGİZ A., CHUMAKOV Y. M. , ŞALE Y., MAMMADOV T., MİKAİLZADE F., SEYİTSOY M.

9 th international conference on materials science and condensed matter physics, Chisinau, Moldova, 25 - 28 September 2018

**IV. Changing in the temperature behavior of fundamental electronic band gap of TlGaSe<sub>2</sub> Ferroelectric-Semiconductor under the memory effect conditions**

CENGİZ A., ŞALE Y., SEYİTSOY M.

Türk Fizik Derneği 34.Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 September 2018

**V. Optical Transition in TlGaSe<sub>2</sub> Ferroelectric-Semiconductor in the Visible Range**

CENGİZ A., CHUMAKOV Y. M. , SEYİTSOY M.

14th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity, 14 - 18 May 2018

**VI. Effect of the Thermal Annealing Inside the Incommensurate Phase on Optical Absorption**

CENGİZ A., ŞALE Y., SEYİTSOY M.

TFD-33, Muğla, Turkey, 6 - 10 September 2017

**VII. Optical band gap in absorbtion edge of TlGaSe<sub>2</sub> layered ferroelectric-semiconductor**

CENGİZ A., ŞALE Y., SEYİTSOY M.

ElektroseramikTR.GEBZE TEKNİK ÜNİVERSİTESİ, KOCAELİ/GEBZE, Turkey, 2 - 05 October 2017

**VIII. Origin of the optical absorption of TlGaSe<sub>2</sub> layered semiconductor in the visible range**

CENGİZ A., ŞALE Y., SEYİTSOY M.

Türk Fizik Derneği 33.Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 September 2017

**IX. Doped/Undoped TiO<sub>2</sub> Nanowires Synthesized by Hydrothermally and Their Ethanol and Methanol Sensing Application**

CENGİZ A., ÖZTÜRK S., ÖZTÜRK Z. Z.

NanoTR 10, İstanbul, Turkey, 17 - 21 June 2014, pp.437

**X. TiO<sub>2</sub> Nanowires on Different Substrates and Their Gas Sensing Application**

CENGİZ A., ÖZTÜRK S., ÖZTÜRK Z. Z.

NanoTR 9, Erzurum, Turkey, 24 - 28 June 2013, pp.447

## Metrics

Publication: 13

Citation (WoS): 6

Citation (Scopus): 6

H-Index (WoS): 1

H-Index (Scopus): 1

## Congress and Symposium Activities

TÜRK FİZİK DERNEĞİ, Working Group, Muğla, Turkey, 2018

TÜRK FİZİK DERNEĞİ, Working Group, Muğla, Turkey, 2017