

## Res. Asst. PhD ÖZDEN BAŞAR BALBAŞI

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

- I. **Surface and interface chemistry of bromine-methanol-etched Cd<sub>0.9</sub>Zn<sub>0.1</sub>Te crystals**  
ÜNAL M., Karaman M. C., Çelik G., Tüzel O., BALBAŞI Ö. B., Genç A. M., TURAN R.  
Surface and Interface Analysis, 2024 (SCI-Expanded)
- II. **Production of detector grade CdZnTe crystal with VGF furnace by analyzing segregation of Zn and In**  
Ünal M., Balbaşı Ö. B., Sedani S. H., Karaman M. C., Çelik G., Bender D., Genç A. M., Parlak M., Turan R.  
Journal of Crystal Growth, vol.615, 2023 (SCI-Expanded)
- III. **Production of High-Performance CdZnTe Crystals Grown by THM for Radiation Detection Applications**  
Ünal M., Balbaşı Ö. B., Karaman M. C., Genç A. M., Parlak M., Turan R.  
Journal of Electronic Materials, vol.51, no.9, pp.4675-4680, 2022 (SCI-Expanded)
- IV. **Investigation of seeded vertical gradient freeze (VGF) growth of CdZnTe bulk crystals**  
Balbaşı Ö. B., Ünal M., Genç A. M., Çelik G., Parlak M., Turan R.  
Journal of Crystal Growth, vol.584, 2022 (SCI-Expanded)
- V. **Interface stability problem towards the end of THM growth of cadmium zinc telluride crystals**  
Ünal M., Balbaşı Ö. B., Genç A. M., Parlak M., Turan R.  
Journal of Crystal Growth, vol.584, 2022 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **CdZnTe BULK-CRYSTAL GROWTH AND SURFACE PROCESSING TECHNOLOGY AT METU-CGL**  
Ergunt Y., Kabukcuoğlu M. P., Balbasi Ö. B., Yaşar B., Kalay Y. E., Turan R., Parlak M.  
International Conference on Radiation Applications , Belgrade, Serbia And Montenegro, 16 - 19 September 2019, pp.167-171
- II. **A study on the performance the CdZn<sub>x</sub>Te<sub>1-x</sub> radiation detectors grown by vertical gradient freeze (VGF) technique**  
Bender D., Turan R., Ünal A. M., Ünal M., Balbaşı Ö. B., Yılmaz E.  
Seventh International Conference on Radiation in Various Fields of Research, Podgorica, Serbia And Montenegro, 10 - 14 June 2019
- III. **CdZnTe Bulk Crystal Growth and Temperature Modeling Studies at METU-CGL**  
BALBAŞI Ö. B., ERGUNT y., DOĞRU Ç., KABUKÇUOĞLU M., ÜNAL M., PARLAK M., TURAN R.  
SPIE, San Diego, United States Of America, 17 September 2017 - 21 September 2018
- IV. **Growth, Wafering and Surface Preparation of CdZnTe Crystals for X-ray and Gamma Ray Applications**  
ÜNAL M., Bender D., BALBAŞI Ö. B., Ünal A. M., Kabukcuoğlu M. P., Ergunt H. Y., PARLAK M., TURAN R.

SIXTH EUROPEAN CONFERENCE ON CRYSTAL GROWTH, Varna, Bulgaria, 16 - 20 September 2018

**V. CdZnTe Bulk Crystal Growth and Temperature Modeling Studies at METU-CGL**

BALBAŞI Ö. B., Ergunt Y., DOĞRU Ç., Kabukcuoğlu M., ÜNAL M., PARLAK M., TURAN R.

Conference on Hard X-Ray, Gamma-Ray, and Neutron Detector Physics XX, California, United States Of America, 20 - 21 August 2018, vol.10762

**VI. Optimization of chemical polishing by bromine-alcohol for detector-grade CdZnTe crystals and its effect on contacts**

ÜNAL M., Bender D., BALBAŞI Ö. B., Kabukcuoğlu M. P., Ergunt H. Y., TURAN R.

SPIE Optics Photoics - Hard X-Ray, Gamma-Ray, and Neutron Detector Physics XX, San Diego, United States Of America, 19 - 23 August 2018

## **Metrics**

Publication: 11

Citation (WoS): 4

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2

## **Congress and Symposium Activities**

7th European Conference on Crystal Growth, Attendee, Paris, France, 2022