

## Res. Asst. CAN OKUYUCU

### Personal Information

**Office Phone:** [+90 312 210 5842](tel:+903122105842) Extension: 5842

**Fax Phone:** [+90 312 210 2518](tel:+903122102518)

**Email:** okuyucu@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/okuyucu>

### International Researcher IDs

ScholarID: cWoXXzYAAAAJ

ORCID: 0000-0001-5683-5742

ScopusID: 57223005219

Yoksis Researcher ID: 334103

### Education Information

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2020 - Continues

Associate Degree, Anadolu University, Open Education Faculty, Department Of Philosophy, Turkey 2016 - 2022

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2014 - 2020

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Physical Metallurgy, Material Characterization, Mechanical Metallurgy, Nanomaterials

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2020 - Continues

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

- I. **Development and directed energy deposition of high strength Hf<sub>5</sub>Mo<sub>15</sub>Nb<sub>35</sub>Ta<sub>25</sub>Ti<sub>20</sub> refractory high entropy alloys**  
ÖZALP A., OKUYUCU C., Koc B., El-Atwani O., AYDOĞAN GÜNGÖR E.  
Materials Characterization, vol.209, 2024 (SCI-Expanded)
- II. **Engineering Oxygen Vacancies in (FeCrCoMnZn)<sub>3</sub>O<sub>4</sub>-δ High Entropy Spinel Oxides Through Altering Fabrication Atmosphere for High-Performance Rechargeable Zinc-Air Batteries**  
Özgür Ç., Erdil T., Geyikci U., Okuyucu C., Lökçü E., Kalay Y. E., Toparlı Ç.  
Global Challenges, vol.8, no.1, 2024 (SCI-Expanded)
- III. **Nanomechanical properties of Al-Tb marginal metallic glass**  
OKUYUCU C., Ulucan T. H., Abboud M., Motallebzadeh A., ÖZERİNÇ S., Kalay İ., KALAY Y. E.  
Materials Science and Engineering: A, vol.888, 2023 (SCI-Expanded)

- IV. **Effect of Gadolinium on Electrical Properties of Polyethyleneimine Functionalized and Nitrogen-Doped Graphene Quantum Dot Nanocomposite Based Diode**  
ORHAN E., ANTER A., ULUSOY M., Polat B., OKUYUCU C., YILDIZ M., ALTINDAL Ş.  
Advanced Electronic Materials, vol.9, no.8, 2023 (SCI-Expanded)
- V. **Facile Synthesis and Origin of Enhanced Electrochemical Oxygen Evolution Reaction Performance of 2H-Hexagonal Ba<sub>2</sub>CoMnO<sub>6</sub>-delta as a New Member in Double Perovskite Oxides**  
Erdil T., Lökçü E., Yıldız İ., Okuyucu C., Kalay Y. E., Toparlı Ç.  
ACS OMEGA, vol.7, no.48, pp.44147-44155, 2022 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Al-Sm Alloys Under Far-From-Equilibrium Conditions**  
Okuyucu C., Kaygusuz B., Işıksaçan C., Meydanoğlu O., Motallebzadeh A., Özerinç S., Kalay Y. E.  
Light Metals Symposium held at the TMS Annual Meeting and Exhibition, 2021, Pennsylvania, United States Of America, 15 - 18 March 2021, vol.6, pp.85-91

## **Supported Projects**

Kalay Y. E., Okuyucu C., Sarıtürk D., Project Supported by Public Organizations in Other Countries, ALLOYS - Metallic Glass/Nanocrystal Composites and NiTiHf Shape Memory Alloys for High Temperature Applications, 2020 - 2023

## **Memberships / Tasks in Scientific Organizations**

ACerS, Member, 2021 - Continues, United States Of America  
AIST, Member, 2021 - Continues, United States Of America  
ASM International, Member, 2021 - Continues, United States Of America  
TMS, Member, 2021 - Continues, United States Of America

## **Scientific Research / Working Group Memberships**

Metals Development Laboratory, Middle East Technical University, Türkiye, mdl.mete.metu.edu.tr, 2014 - Continues

## **Metrics**

Publication: 6  
Citation (WoS): 1  
Citation (Scopus): 2  
H-Index (WoS): 1  
H-Index (Scopus): 1

## **Congress and Symposium Activities**

TMS 2021, Attendee, Florida, United States Of America, 2021