

## **Personal Information**

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## **Education Information**

Doctorate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2016 - Continues

Postgraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2014 - 2016

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2008 - 2013

## **Foreign Languages**

English, C2 Mastery

## **Dissertations**

Postgraduate, ÇİNKO OKSİT (ZnO) VE TİTANYUM DİOKSİT (TiO<sub>2</sub>) NANOTÜPLERİN HAVA FİLTASYONUNDA TEMİZLEYİCİ NANOMALZEME OLARAK KULLANILMASININ ARAŞTIRILMASI, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Metallurgical and Materials Engineering, 2016

## **Research Areas**

Ceramic Materials, Composites, Polymeric Materials, Material Characterization, Nanomaterials

## **Academic Titles / Tasks**

Research Assistant, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, -, 2014 - Continues

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

- I. **Photocatalytic properties of ZnO nanoparticle coating on porous ceramic substrates with varying porosities produced from fly ash and red mud**  
Özcan M., Birol B., Dülger Kutlu Ö., Kaya F.  
International Journal of Applied Ceramic Technology, vol.21, no.3, pp.1995-2009, 2024 (SCI-Expanded)
- II. **Synthesis of 1D boron trioxide nanorods via heat treatment of electrospun PVA nanofibers decorated with amorphous boron**  
Özcan M., Kaya C., Kaya F.  
Materials Letters, vol.351, 2023 (SCI-Expanded)
- III. **An Optimization Study for the Electrospun Borate Ester Nanofibers as Light-Weight, Flexible, and**

### **Affordable Neutron Shields for Personal Protection**

Özcan M., Kaya C., Kaya F.

Macromolecular Materials and Engineering, vol.308, no.11, 2023 (SCI-Expanded)

- IV. **Influence of layer number and sintering temperature on microstructural, tribological, and corrosion behavior of Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> multilayer coatings**  
Eraslan F. S., TÜRÜ İ. C., ÖZCAN M., BİROL B., GECÜ R.  
Ceramics International, vol.49, no.20, pp.33226-33235, 2023 (SCI-Expanded)
- V. **Boron carbide reinforced electrospun nanocomposite fiber mats for radiation shielding**  
Özcan M., Avcıoğlu S., Kaya C., Kaya F.  
Polymer Composites, vol.44, no.7, pp.4155-4167, 2023 (SCI-Expanded)
- VI. **Boron-containing nonwoven polymeric nanofiber mats as neutron shields in compact nuclear fusion reactors**  
ÖZCAN M., KAM E., KAYA C., KAYA F.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.6, pp.7441-7450, 2022 (SCI-Expanded)
- VII. **Investigation of photocatalytic properties of TiO<sub>2</sub> nanoparticle coating on fly ash and red mud based porous ceramic substrate**  
ÖZCAN M., BİROL B., KAYA F.  
Ceramics International, vol.47, pp.24270-24280, 2021 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Cosmic radiation shielding property of boron reinforced continuous fiber nanocomposites produced by electrospinning**  
Özcan M., Kaya C., Kaya F.  
Discover Nano, vol.18, no.1, 2023 (Scopus)

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

- I. **SYNTHESIS AND CHARACTERIZATION OF ZINC OXIDE NANOSTRUCTURES**  
Özcan M.  
ICENS, Sarajevo, Bosnia And Herzegovina, 25 - 27 May 2016, pp.462

### **Metrics**

Publication: 10

Citation (WoS): 6

Citation (Scopus): 53

H-Index (WoS): 1

H-Index (Scopus): 4