

## Lect. MUSTAFA DURSUNLAR

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-4278-2744

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### Education Information

Doctorate, Yozgat Bozok University, Faculty of Engineering-Architecture, Makine Mühendisliği, Turkey 2019 - Continues

Postgraduate, Karabuk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2018 - 2019

Undergraduate, Karabuk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2012 - 2017

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Eğitimcilerin Eğitimi, Yozgat Bozok Üniversitesi, 2024

### Dissertations

Postgraduate, Termit ve yakma alın kaynağı ile birleştirilmiş R260 kalite rayın mikroyapı ve mekanik özelliklerinin incelenmesi, Karabuk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2019

### Research Areas

Construction and Manufacturing, Tribology, Computer Aided Design and Manufacturing, Casting Methods, Non-traditional manufacturing methods, Welding Methods, Material, Mechanical, Mechanical Properties, Composites, Polymeric Materials, Material Characterization, Non-Ferrous Alloy Production, Principles of Foundry Technology, Iron and Steel Production, Non Metallic Materials Production, Powder Metallurgy

### Academic Titles / Tasks

Lecturer, Yozgat Bozok University, Sorgun Vocational School, Ulaştırma Hizmetleri, 2021 - Continues

## Courses

### Associate Degree

HATA ARIZA ARAMA, Associate Degree, 2024 - 2025

Associate Degree, 2024 - 2025

Associate Degree, 2024 - 2025

Associate Degree, 2024 - 2025

STAJ, Associate Degree, 2024 - 2025

Associate Degree, 2023 - 2024

Associate Degree, 2024 - 2025

Associate Degree, 2024 - 2025

Associate Degree, 2024 - 2025

Associate Degree, 2024 - 2025

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

- I. **Comparative analysis of wear properties between electroless Ni-B coating and commercial ZnAl coating on 38Si7 steel used in railway system**

Dursunlar M., Taş Z., Akgül B., Güler O., Çelebi M.

Engineering Science and Technology, an International Journal, no.58, pp.1-22, 2024 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ray Bağlantı Elemanlarının Deneysel ve Yapay Zekâ Destekli Korozyon Direncinin İncelenmesi**

Dursunlar M., Taş Z.

Demiryolu Mühendisliği, no.21, pp.83-95, 2025 (Peer-Reviewed Journal)

- II. **Electroless Ni-B Coating and Heat Treatment Application for Rail Fastener Elements**

Dursunlar M., Taş Z.

Demiryolu Mühendisliği, no.20, pp.67-78, 2024 (Peer-Reviewed Journal)

- III. **Termit ve Yakma Alın Kaynağı ile Birleştirilmiş R260 Kalite Rayın Mikroyapı ve Mekanik Özelliklerinin İncelenmesi**

Çuğ H., Dursunlar M.

Demiryolu Mühendisliği, vol.1, no.14, pp.167-179, 2021 (Peer-Reviewed Journal)

- IV. **INVESTIGATION OF THE EFFECT OF ADDITION OF BORON NITRIDE ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST IRON BRAKE MATERIALS USED IN RAILWAY VEHICLES**

Çuğ H., Asgarov K., Tıgıcı G., Dursunlar M.

Metal Science and Treatment of Metals, vol.93, no.2, pp.64-69, 2021 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **A STUDY ON THE PREPARATION OF WOODEN SLEEPERS FOR SERVICE**

Dursunlar M., Yılmaz M.

INTERNATIONAL CONGRESS ON ADVANCED RESEARCH AND APPLICATIONS, Sivas, Turkey, 1 - 02 December 2023, pp.458-468

- II. **Experimental Analysis of Front Blade Attachment with Finite Element Method**

KARAMANLI İ. A., DURSUNLAR M., YILMAZ M., YAZAR O.

2. INTERNATIONAL TECHNOLOGY SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 02 June 2022, pp.93-101

- III. **Investigation of Stress Distribution and Deformation Zones in Composite Sleepers by Finite Element Method**

DURSUNLAR M., YILMAZ M., KARAMANLI İ. A., YAZAR O.

2nd International Symposium on Light Alloys and Composite Materials (UHAKS'22), Karabük, Turkey, 31 March 2022, pp.52-55

- IV. **TREN TEKERLEĞİ VE RAY AŞINMA KONFİGÜRASYONU İÇİN YUVARLANMALI AŞINMA CİHAZ TASARIMI**  
Çuğ H., Dursunlar M.  
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'19), Nevşehir, Turkey, 21 - 23 June 2019, pp.1139-1141
- V. **Effect of Termite Welding Process on Residual Stress, and Wear Behaviour of R260 Quality Rail**  
Çuğ H., Turan M. E., Dursunlar M.  
4th INTERNATIONAL IRON STEEL SYMPOSIUM (UDCS'19), Karabük, Turkey, 4 - 06 April 2019, pp.533-535
- VI. **INVESTIGATION OF WELDING RESIDUAL STRESS IN FLASH-BUTT JOINT OF R260 GRADE RAIL**  
Çuğ H., Dursunlar M., Turan M. E.  
4th INTERNATIONAL SYMPOSIUM ON RAILWAY SYSTEMS ENGINEERING (ISERSE'18), Karabük, Turkey, 10 - 12 October 2018, pp.725-733
- VII. **Investigation of Microstructure and Mechanical Properties of Termite and Flash Butt Welded Rail**  
Çuğ H., Çetin S., Dursunlar M., Ahlatçı H., Çetin M. H.  
1st INTERNATIONAL CONFERENCE OF ADVANCED MATERIALS AND MANUFACTURING TECHNOLOGIES (ICAMT'17), Karabük, Turkey, 25 - 27 October 2017, pp.152
- VIII. **The Flash Butt Welding Application and Inspection in Railway in Karabuk Train Station**  
Dursunlar M., Çuğ H.  
3rd INTERNATIONAL IRON STEEL SYMPOSIUM (UDCS'17), Karabük, Turkey, 3 - 05 April 2017, pp.679
- IX. **DEMİRYOLU RAYLARINDA KARŞILAŞILAN KUSURLARIN ARAŞTIRILMASI**  
Dursunlar M., Çuğ H.  
3rd INTERNATIONAL SYMPOSIUM ON RAILWAY SYSTEMS (ISERSE'16), Karabük, Turkey, 13 - 15 October 2016, pp.617-620
- X. **DEMİRYOLUNDAKİ DERAYMAN OLAYININ İNCELENMESİ**  
Dursunlar M., Çuğ H.  
3rd INTERNATIONAL SYMPOSIUM ON RAILWAY SYSTEMS (ISERSE'16), Karabük, Turkey, 13 - 15 October 2016, pp.402-406
- XI. **DEMİRYOLU RAYLARINDA KAYNAK UYGULAMALARI**  
Çetin S., Dursunlar M., Çuğ H.  
3rd INTERNATIONAL SYMPOSIUM ON RAILWAY SYSTEMS (ISERSE'16), Karabük, Turkey, 13 - 15 October 2016, pp.423-427

## Supported Projects

Çuğ H., Dursunlar M., Project Supported by Higher Education Institutions, Termit ve Yakma Alın Kaynağı ile Birleştirilmiş R260 Kalite Rayın Mikroyapı ve Mekanik Özelliklerinin İncelenmesi, 2018 - 2019

## Activities in Scientific Journals

Demiryolu Mühendisliği, Evaluation Committee Member, 2021 - Continues

## Peer Reviews in Scientific Publications

Demiryolu Mühendisliği, National Scientific Refreed Journal, May 2024

Demiryolu Mühendisliği, National Scientific Refreed Journal, October 2021

Demiryolu Mühendisliği, National Scientific Refreed Journal, May 2021

Demiryolu Mühendisliđi, National Scientific Refreed Journal, May 2021

Demiryolu Mühendisliđi, National Scientific Refreed Journal, May 2021

Demiryolu Mühendisliđi, National Scientific Refreed Journal, May 2021

## **Metrics**

Publication: 16

## **Scholarships**

YÖK100/2000 Doktora Bursu, YOK, 2019 - 2021