

## Res. Asst. YILMAZ YILMAZ

### Personal Information

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### International Researcher IDs

ORCID: 0009-0008-2871-6357

Publons / Web Of Science ResearcherID: JVM-8119-2024

Yoksis Researcher ID: 388911

### Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2024 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, -, Turkey 2020 - 2023

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2017 - 2020

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

IT, Robotik ve Kodlama, İstanbul Ticaret Üniversitesi, 2023

Quality Management, Kalite Mühendisliği Yöneticiliği, İstanbul Ticaret Üniversitesi, 2022

Education Management and Planning, Proje Yön/Hibe ve Fon Kaynakları, İstanbul Ticaret Üniversitesi, 2022

Vocational Course, İnsansız Hava Aracı Ticari Pilot Sertifikası, Teknomer Mühendislik, 2020

### Dissertations

Postgraduate, C-ENKESİTLİ HAFİF ÇELİK PROFİLLERİN MERKEZİ VE EKSANTRİK YÜKLEME ALTINDAKİ DAVRANIŞLARININ İNCELENMESİ, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2024

### Research Areas

Structural Engineering, Steel Structures, Building materials

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

- Machine learning based prediction of compressive and flexural strength of recycled plastic waste aggregate concrete**  
Yılmaz Y., Nayır S.  
Structures, vol.69, 2024 (SCI-Expanded)

- II. **Predicting the load-bearing capacity of lipped channel section cold formed steel profiles under combined effects using machine learning**  
Yılmaz Y., Demir S., Öztürk F.  
STRUCTURES, vol.66, 2024 (SCI-Expanded)
- III. **The behavior of reinforced concrete frames exposed to high temperature under cyclic load effect**  
Çolakoğlu H. E., HÜSEM M., DEMİR S., AKBULUT Y. E., YILMAZ Y.  
Structures, vol.63, 2024 (SCI-Expanded)
- IV. **Buckling behavior of cold-formed steel lipped channel beam-column members under monotonic and cyclic loadings**  
Yılmaz Y., Demir S., Öztürk F.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.90, no.5, pp.435-446, 2024 (SCI-Expanded)
- V. **Buckling and fracture behavior of cold formed carbon/stainless steel tubular braces under far field and near fault loadings**  
Demir S., Ikram M., Yılmaz Y., Soalih H.  
Journal of Constructional Steel Research, vol.214, 2024 (SCI-Expanded)
- VI. **Buckling behavior of cold-formed steel sigma and lipped channel section beam-columns: Experimental and numerical investigation**  
Yılmaz Y., Öztürk F., Demir S.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.214, 2024 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Determination of the efflorescence defects on concrete and plaster surfaces using a novel deep-learning model**  
Nayır S., Yılmaz Y.  
Journal of Structural Engineering & Applied Mechanics (Online), vol.7, no.2, pp.123-135, 2024 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Eksenel ve Eksantrik Yüklemeye Maruz Kalan C-Kesitli Hafif Çelik Kiriş-Kolon Elemanların Çevrimsel Yükleme Altındaki Davranışı**  
Yılmaz Y., Demir S., Öztürk F., Pul S.  
Ulusal 9. Yapı Mekaniği Laboratuvarları Çalıştayı (YMLÇ-9), Düzce, Turkey, 18 - 19 October 2024, pp.1-7
- II. **The Behavior of Reinforced Concrete Frames Exposed to High Temperatures under Cyclic Load Effect**  
Hüsem M., Çolakoğlu H. E., Akbulut Y. E., Yılmaz Y.  
3rd International Civil Engineering & Architecture Conference (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.1817-1824
- III. **Evaluation of potential liquefaction in soils**  
Yılmaz Y., Cüre E., Türker E., Altuntaş O. Y.  
3RD INTERNATIONAL CIVIL ENGINEERING & ARCHITECTURE CONFERENCE, Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.443-453

## Scientific Refereeing

ADVANCES IN CIVIL ENGINEERING, SCI Journal, May 2024

## **Congress and Symposium Activities**

Proceedings of 3rd International Civil Engineering and Architecture Congress (ICEARC'23), Attendee, Trabzon, Turkey, 2023