

# RAFET AKTEPE

## Personal Information

**Office Phone:** [+90 312 297 7328](tel:+903122977328) Extension: 118

**Email:** rafet.aktepe@hacettepe.edu.tr

**Web:** <https://avesis.hacettepe.edu.tr/rafet.aktepe>

## International Researcher IDs

ORCID: 0000-0003-0436-5683

ScopusID: 57219266410

Yoksis Researcher ID: 312757

## Education Information

Postgraduate, Hacettepe University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2019 - Continues

Undergraduate, Hacettepe University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2014 - 2019

## Foreign Languages

English, C1 Advanced

## Research Areas

Structure, Prefabrication, Structural Engineering, Steel Structures, Timber Structures, Earthquake Engineering, Concrete Structures

## Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - Continues

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

- I. **Seismic risk prioritization of masonry building stocks using machine learning**  
COŞKUN O., AKTEPE R., ALDEMİR A., Yılmaz A. E., DURMAZ M., GÜLDÜR ERKAL B., TUNALI E.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, 2024 (SCI-Expanded)
- II. **Experimental investigation of the damage characteristics and seismic response of moment-resisting bolted column base joints for precast concrete frames**  
AKDUMAN Ş., AKTEPE R., ALDEMİR A., ŞAHMARAN M.  
Soil Dynamics and Earthquake Engineering, vol.177, 2024 (SCI-Expanded)
- III. **Prediction of the initial geometric imperfection magnitudes for numerical modeling of cold-formed steel channel sections**  
AKTEPE R., GÜLDÜR ERKAL B.  
Structures, vol.60, 2024 (SCI-Expanded)
- IV. **Opportunities and challenges in constructing a demountable precast building using C&D waste-based**

**geopolymer concrete: A case study in Türkiye**

AKDUMAN Ş., AKTEPE R., ALDEMİR A., Ozcelikci E., Alam B., ŞAHMARAN M.  
Journal of Cleaner Production, vol.434, 2024 (SCI-Expanded)

- V. **Structural performance of construction and demolition waste-based geopolymer concrete columns under combined axial and lateral cyclic loading**  
AKDUMAN Ş., AKTEPE R., ALDEMİR A., Ozcelikci E., YILDIRIM G., ŞAHMARAN M., Ashour A.  
Engineering Structures, vol.297, 2023 (SCI-Expanded)
- VI. **Fully demountable column base connections for reinforced CDW-based geopolymer concrete members**  
AKTEPE R., AKDUMAN Ş., ALDEMİR A., Ozcelikci E., YILDIRIM G., ŞAHMARAN M., Ashour A.  
Engineering Structures, vol.290, 2023 (SCI-Expanded)
- VII. **State-of-the-art review on measurement techniques and numerical modeling of geometric imperfections in cold-formed steel members**  
AKTEPE R., GÜLDÜR ERKAL B.  
Journal of Constructional Steel Research, vol.207, 2023 (SCI-Expanded)
- VIII. **Experimental investigation on lateral behavior of novel hybrid cold-formed steel walls with composite sheathing**  
AKTEPE R., AKDUMAN Ş., GÜLDÜR ERKAL B.  
Journal of Constructional Steel Research, vol.202, 2023 (SCI-Expanded)
- IX. **Experimental and numerical study on flexural behaviour of cold-formed steel hat-shaped beams with geometrical imperfections**  
AKTEPE R., GÜLDÜR ERKAL B.  
Journal of Constructional Steel Research, vol.202, 2023 (SCI-Expanded)
- X. **Shear behaviour of reinforced construction and demolition waste-based geopolymer concrete beams**  
ALDEMİR A., AKDUMAN Ş., KOCAER Ö., AKTEPE R., ŞAHMARAN M., YILDIRIM G., Almahmood H., Ashour A.  
JOURNAL OF BUILDING ENGINEERING, vol.47, 2022 (SCI-Expanded)

## Metrics

Publication: 10

Citation (WoS): 7

Citation (Scopus): 44

H-Index (WoS): 1

H-Index (Scopus): 3