

## Assoc. Prof. SERTAÇ ORUÇ

### Personal Information

Web: <https://avesis.aybu.edu.tr/12182>

### International Researcher IDs

ORCID: 0000-0003-2906-0771

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### Education Information

Doctorate, Istanbul Medipol University, Fen Bilimleri Enstitüsü, Turkey 2020 - Continues

Doctorate, Middle East Technical University, Turkey 2014 - 2018

Postgraduate, Bogazici University, Turkey 2010 - 2011

Undergraduate, Istanbul Technical University, Turkey 2000 - 2005

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Climate change and futureproofing infrastructure: Etimesgut, Ankara case study, Middle East Technical University, 2018

### Research Areas

Civil Engineering

### Academic Titles / Tasks

Associate Professor, Cankiri Karatekin University, 2023 - 2024

Associate Professor, Kirşehir Ahi Evran University, 2022 - 2023

Assistant Professor, Kirşehir Ahi Evran University, 2020 - 2022

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

- The Impact of Climate Change on Construction Activity Performance**  
Oruc S., Dikbas H. A., Gumus B., YÜCEL İ.  
Buildings, vol.14, no.2, 2024 (SCI-Expanded)
- Impacts of Climate Change on Extreme Climate Indices in Türkiye Driven by High-Resolution Downscaled CMIP6 Climate Models**  
Gumus B., Oruc S., YÜCEL İ., YILMAZ M. T.

- Sustainability (Switzerland), vol.15, no.9, 2023 (SCI-Expanded)
- III. **Performance of bias corrected monthly CMIP6 climate projections with different reference period data in Turkey**  
Oruc S.  
Acta Geophysica, vol.70, no.2, pp.777-789, 2022 (SCI-Expanded)
  - IV. **Investigation of the Effect of Climate Change on Extreme Precipitation: Capital Ankara Case**  
Oruc S., YÜCEL İ., YILMAZ A.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.33, no.2, pp.11749-11778, 2022 (SCI-Expanded)
  - V. **Quantile trends of subhourly extreme rainfall: Marmara Region, Turkey**  
Oruc S.  
Acta Geophysica, vol.69, no.6, pp.2453-2473, 2021 (SCI-Expanded)
  - VI. **Visual and statistical inference of hourly and sub-hourly extreme rainfall trends Central Anatolia, Turkey case**  
Oruc S.  
Acta Geophysica, vol.69, no.1, pp.199-216, 2021 (SCI-Expanded)
  - VII. **Trend and nonstationary relation of extreme rainfall: Central Anatolia, Turkey**  
Oruc S.  
Acta Geophysica, vol.69, no.1, pp.243-255, 2021 (SCI-Expanded)
  - VIII. **Extreme precipitation indices trend assessment over Thrace region, Turkey**  
Oruc S., Yalcin E.  
Acta Geophysica, vol.69, no.1, pp.307-321, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Climate Impacts on Infrastructure Projects and Risk Allocation**  
ORUÇ S., KÖKSAL ORUÇ B.  
Yargıtay Dergisi, vol.49, no.3, pp.575-597, 2023 (Peer-Reviewed Journal)
- II. **Persistence of Precipitation Time Series: Kırşehir Case Study**  
ORUÇ S.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.14, no.1, pp.246-255, 2022 (Peer-Reviewed Journal)
- III. **Non-stationary Investigation of Extreme Rainfall**  
ORUÇ S.  
Civil Engineering Journal, vol.7, no.9, pp.1620-1633, 2021 (Scopus)
- IV. **Investigating the Effect of Climate Change on Stormwater Networks: Capital Ankara Case**  
ORUÇ S., YÜCEL İ., YILMAZ A.  
Turkish Journal of Water Science & Management, vol.4, no.1, pp.110-138, 2020 (Peer-Reviewed Journal)
- V. **Investigation of The Effect of Climate Change on Extreme Precipitation: Tekirdağ Case**  
ORUÇ S.  
Turkish Journal of Water Science & Management, vol.4, no.2, pp.135-161, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **İklim Değişikliğinin İstanbul Üzerinde Ekstrem İklim İndekslerine Etkisinin Cmp6 İklim Modelleri İle İncelenmesi**  
Gümüş B., ORUÇ S., YÜCEL İ., YILMAZ M. T.  
İstanbul'un Jeolojisi Sempozyumu-6, 14 - 15 December 2023
- II. **Investigation of the Extreme Climate Indices Over Çankırı With CMIP6 Climate Models**  
ORUÇ S., Gümüş B., YÜCEL İ., YILMAZ M. T.

2nd International Karatekin Science and Technology Conference, 21 - 22 December 2023

- III. **Climate Change Impacts on Infrastructure Assets**  
ORUÇ S., YÜCEL İ., YILMAZ M. T., GÜMÜŞ B.  
ICREDM 2023 3. Uluslararası Gayrimenkul Geliştirme ve Yönetimi Konferansı, Ankara, Turkey, 1 - 04 February 2023
- IV. **CMIP6 Küresel İklim Modellerinin Kantil Haritalama Yöntemleriyle Yüksek Çözünürlüklü İstatistiksel Ölçek Küçültmesi**  
GÜMÜŞ B., YÜCEL İ., ORUÇ S., YILMAZ M. T.  
11. Ulusal Hidroloji Kongresi, Gaziantep, Turkey, 13 - 15 October 2022
- V. **Climate Impacts on Infrastructure Projects and Risks Allocation**  
ORUÇ S.  
5th International Conference of Contemporary Affairs in Architecture and Urbanism, Alanya, Turkey, 11 - 13 May 2022
- VI. **Trend Comparison of Bias Corrected and Raw GCMs**  
ORUÇ S.  
International Conference on Design, Research and Development, Kayseri, Turkey, 15 December 2021
- VII. **Climate Extreme Indices Derived from Observed Daily Temperature Data Over Three Cities of Thrace Region, Turkey**  
ORUÇ S.  
4th International Conference of Contemporary Affairs in Architecture and Urbanism, Turkey, 20 - 21 May 2021
- VIII. **Assessing the Performance of Reanalysis Data For The Selected Stations In Thrace Region**  
ORUÇ S.  
2nd International Conference on Access to Recent Advances in Engineering and Digitalization, Kayseri, Turkey, 10 - 12 March 2021
- IX. **Effect of Distribution Selection to Frequency Analyses: A Case Study**  
ORUÇ S.  
GLOBECER 21, Turkey, 2 - 05 June 2021
- X. **İklim Değişikliği, Ekstrem Yağışlar ve Etkileri: Etimesgut, Ankara Örneği**  
ORUÇ S., YÜCEL İ., YILMAZ A.  
10. Ulusal Hidroloji Kongresi, Muğla, Turkey, 9 - 12 October 2019
- XI. **Climate Change and Futureproofing Infrastructure**  
ORUÇ S., YÜCEL İ., YILMAZ A.  
3rd International Electronic Conference on Water Sciences (ECWS-3) - Katılım belgesi elime ulaşmadığı için puanlamıyorum ancak ilgili adreste halen görülebilmektedir., Turkey, 15 - 30 November 2018
- XII. **Climate Change and Futureproofing Infrastructure: Stormwater Networks**  
ORUÇ S., YÜCEL İ., YILMAZ A.  
3rd International Electronic Conference on Water Sciences (ECWS-3) - Katılım belgesi elime ulaşmadığı için puanlamıyorum ancak ilgili adreste halen görülebilmektedir., Turkey, 15 - 30 November 2018

## Metrics

Publication: 25

Citation (Scopus): 34

H-Index (Scopus): 4