Res. Asst. Cemre Sonuç

Personal Information

Email: yurukc@itu.edu.tr

International Researcher IDs
ORCID: 0000-0002-8585-1319
ScopusID: 57210316446
Yoksis Researcher ID: 278818

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Atmosfer Bilimleri, Turkey 2017 - Continues
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Atmosfer Bilimleri, Turkey 2014 - 2017
Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Meteoroloji Mühendisliği, Turkey 2010 - 2014

Dissertations

Postgraduate, COSMO-CLM (CCLM) CLIMATE SIMULATIONS OVER TURKEY: PERFORMANCE EVALUATION AND CLIMATE PROJECTIONS FOR THE 21ST CENTURY, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Atmosfer Bilimleri, 2017

Research Areas

Technical Sciences, Atmospheric Sciences and Meteorological Engineering, Climate, Climate Change and Climate Modeling

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Uçak ve Uzay Bilimleri, Meteoroloji Mühendisliği, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Effects of land-use mitigation scenarios on urban heat island intensity in Istanbul**
Diren-Üstün D. H., Ünal Y., Bilgen S. İ., Sonuç C., Sodoudi S., Güney C., Doğru A. Ö., İncecik S.
Atmospheric Research, vol.297, 2024 (SCI-Expanded)

II. **Convection-permitting climate simulations with COSMO-CLM over northwestern Türkiye under the RCP8.5 scenario**
Sonuç C., Ünal Y., İncecik S.
International Journal of Climatology, vol.43, no.8, pp.3841-3858, 2023 (SCI-Expanded)

III. **Investigating urban heat island intensity in Istanbul**
Ünal Y., Sonuç C., Incecik S., Topçu H. S., Diren-Ustun D. H., Temizoz H. P.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.139, pp.175-190, 2020 (SCI-Expanded)

Articles Published in Other Journals

I. **Estimating potential future distribution of some selected Oak species in the Marmara Region**
FOSSO L. C., karahalil u., Özdemir M., Sonuç C., DİREN ÜSTÜN D. H., Ünal Y., TANDOĞAN M.
Ormancılık Araştırma Dergisi, vol.10, no.Özel Sayı, pp.1-11, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Reference Evapotranspiration Variations in Turkey under Conditions of Recent and Future ClimateChange**
Kapan N., YÜRÜK C., İlhan A., ÜNAL Y.
9th International Symposium on Atmospheric Sciences, İstanbul, Turkey, 23 - 26 October 2019, pp.490-498

II. **Dynamical Downscaling of Holdridge Life Zones over Turkey for Future Climate Change under RCP 8.5 Emission Scenario.**
Sonuç C., Tatlı H., Ünal Y.
9th International Symposium on Atmospheric Sciences, İstanbul, Turkey, 23 - 26 October 2019, pp.448-455

III. **REGIONAL FLOOD FREQUENCY ANALYSIS FOR EASTERN BLACK SEA**
Sonuç C., İlhan A., Karınca D., Kartal E., Şahin A. N., Önöz B.
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 1 - 04 November 2017, pp.464-466

IV. **CLIMATE PROJECTIONS FOR THE CENTRAL ANATOLIAN AGRICULTURAL BASIN**
İlhan A., Ünal Y., Kadıoğlu M., Sonuç C.
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 1 - 04 November 2017, pp.393-397

V. **REGIONAL FLOOD FREQUENCY ANALYSIS FOR EASTERN BLACK SEA BASIN**
Kartal E., Önöz B., Sonuç C., Karınca D., İlhan A., Şahin A. N.
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 1 - 04 November 2017, pp.464-466

VI. **REGIONAL LOW FLOW AND DROUGHT ANALYSIS FOR EASTERN BLACK SEA BASIN**
Kartal E., Önöz B., Sonuç C., Karınca D., İlhan A., Şahin A. N.
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 1 - 04 November 2017, pp.461-463

VII. **CLIMATE CHANGE AND AGRICULTURAL SUSTAINABILITY IN TURKEY**
Kadıoğlu M., Ünal Y., İlhan A., Sonuç C.
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 1 - 04 November 2017, pp.369-371

VIII. **Assessing the Effect of Wind Speed/Direction Changes on Urban Heat Island Intensity of Istanbul**
Temizöz H. P., Diren Üstün D. H., Sonuç C., Ünal Y.
European Geosciences Union General Assembly, Viyana, Austria, 23 - 28 April 2017, pp.7438

IX. **Performance Evaluation of COSMO-CLM (CCLM) over Istanbul**
Sonuç C., Ünal Y.
COSMO/CLM/ICON/ART User Seminar, Offenbach, Germany, 6 - 08 March 2017, pp.17

X. **Changes in Precipitation extremesin high Resolution Simulations of COSMO-CLM driven by MPI-ESM-LR under RCP8.5 scenarios over Western Turkey**
Ünal Y., Sonuç C.
COSMO/CLM/ICON/ART User Seminar, Offenbach, Germany, 6 - 08 March 2017, pp.28

XI. **Changes in Temperature Extremes in High Resolution Simulations of COSMO-CLM Driven by MPI-ESM-LR Under RCP8.5 Scenario over The Western Part Turkey.**
Sonuç C., Ünal Y.
MedCLIVAR 2016 Conference, Athens, Greece, 26 - 30 September 2016, pp.1

Metrics

Metrics

Publication: 15
Citation (Scopus): 33
H-Index (Scopus): 1