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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, Uak Ve Uzay Bilimleri Fakóltesi, Meteoroloji Mühendislięi, 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, Uak ve Uzay Bilimleri, Meteoroloji Mühendislięi, 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., Sonu 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**
Sonu 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., Sonu C., İncecik S., Topu 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.
Ormançılık 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., Öñöz 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., Kadioğlu 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., Öñöz 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., Öñöz 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**
Kadioğlu 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 extremes in 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

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