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Research Areas

Civil Engineering, Geotechnical, Foundation Engineering, Soil Mechanics, Underground Construction, Deep Excavation, Ground Improvement, Soil Dynamics

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Geospatial Liquefaction Modeling of the 2023 Türkiye Earthquake Sequence by an Ensemble of Global, Continental, Regional, and Event-Specific Models**
Asadi A., Sanon C., ÇAKIR E., Zhan W., Shirzadi H., Baise L. G., ÇETİN K. Ö., Moaveni B.
Seismological Research Letters, vol.95, no.2 A, pp.697-719, 2024 (SCI-Expanded)
- II. **Soil liquefaction sites following the February 6, 2023, Kahramanmaraş-Türkiye earthquake sequence**
ÇETİN K. Ö., SÖYLEMEZ B., Guzel H., ÇAKIR E.
Bulletin of Earthquake Engineering, 2024 (SCI-Expanded)
- III. **Seismic site effect models for the Türkiye-Izmir-Bayrakli Basin**
ÇETİN K. Ö., ÇAKIR E., Zarzour M.
BULLETIN OF EARTHQUAKE ENGINEERING, 2023 (SCI-Expanded)
- IV. **2-D and 3-D basin site effects in Izmir-Bayrakli during the October 30, 2020 M_w7.0 Samos earthquake**
ÇETİN K. Ö., Zarzour M., ÇAKIR E., Tuna S. C., Altun S.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.21, no.12, pp.5419-5442, 2023 (SCI-Expanded)
- V. **Geotechnical reconnaissance findings of the October 30 2020, Mw7.0 Samos Island (Aegean Sea) earthquake**
Ziotopoulou K., ÇETİN K. Ö., Pelekis P., Altun S., Klimis N., SEZER A., Rovithis E., YILMAZ M. T., Papadimitriou A. G., GÜLERCE Z., et al.
Bulletin of Earthquake Engineering, vol.20, no.14, pp.7819-7852, 2022 (SCI-Expanded)
- VI. **The role of site effects on elevated seismic demands and corollary structural damage during the**

October 30, 2020, M7.0 Samos Island (Aegean Sea) Earthquake

Çetin K. Ö., Papadimitriou A. G., Altun S., Pelekis P., Unutmaz B., Rovithis E., Akgün M., Klimis N., Askan Gündoğan A., Ziotopoulou K., et al.

BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.14, pp.7763-7792, 2022 (SCI-Expanded)

VII. Predictive performance of current ground motion models for recorded strong motions in 2020 Samos Earthquake

GÜLERCE Z., Akbaş B., ÖZACAR A. A., Sopacı E., Önder F. M., UZEL B., CAN G., ÇAKIR E., ILGAÇ M., SÖYLEMEZ B., et al.

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.152, 2022 (SCI-Expanded)

VIII. The site effects in Izmir Bay of October 30 2020, M7.0 Samos Earthquake

ÇETİN K. Ö., ALTUN S., ASKAN GÜNDOĞAN A., AKGÜN M., SEZER A., KINCAL C., ÖZDAĞ Ö. C., İpek Y., UNUTMAZ B., GÜLERCE Z., et al.

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.152, 2022 (SCI-Expanded)

IX. Geotechnical aspects of reconnaissance findings after 2020 January 24th, M6.8 Sivrice–Elazig–Turkey earthquake

ÇETİN K. Ö., ÇAKIR E., ILGAÇ M., CAN G., SÖYLEMEZ B., Elsaid A., Cuceoglu F., GÜLERCE Z., ASKAN GÜNDOĞAN A., Aydın S., et al.

Bulletin of Earthquake Engineering, vol.19, no.9, pp.3415-3459, 2021 (SCI-Expanded)

Books & Book Chapters

I. Preliminary Report on Engineering and Geological Effects of the January 24, 2020 Magnitude 6.7 Earthquake in Elazığ, Turkey

ÇETİN K. Ö., ILGAÇ M., CAN G., ÇAKIR E., SÖYLEMEZ B.

GEER, 2020

II. Geotechnical Reconnaissance Findings

ÇETİN K. Ö., Ziotopoulou K., Mylonakis G., Klimis N., YILMAZ M. T., GÜLERCE Z., CAN G., ILGAÇ M., ÇAKIR E., SÖYLEMEZ B., et al.

in: Seismological and Engineering Effects of the M 7.0 Samos Island (Aegean Sea) Earthquake, K. Onder Cetin, George Mylonakis, Anastasios Sextos, Jonathan P. Stewart, Editor, GEER, pp.179-224, 2020

III. Site Effects

ÇETİN K. Ö., Papadimitriou A., Mylonakis G., Ziotopoulou K., ASKAN GÜNDOĞAN A., ILGAÇ M., CAN G., ÇAKIR E., SÖYLEMEZ B., Elsaid A., et al.

in: Seismological and Engineering Effects of the M 7.0 Samos Island (Aegean Sea) Earthquake, K. Onder Cetin, George Mylonakis, Anastasios Sextos, Jonathan P. Stewart, Editor, GEER, pp.160-178, 2020

Refereed Congress / Symposium Publications in Proceedings

I. Bir Deniz Dolgusunda Çöküntü Konilerinin Oluşum Hikayesi

ÇETİN K. Ö., SÖYLEMEZ B., ÇAKIR E.

Prof. Dr. Feyza Cinicioglu Onuruna Teoriden Uygulamaya Geoteknik Mühendisliği Sempozyumu, Turkey, 10 May 2018

Other Publications

I. 24 January 2020, Sivrice-Elazig-Turkey Earthquake Reconnaissance Report

Çetin K. Ö., İlgaç M., Can G., Çakır E., Söylemez B.

Technical Report, pp.1, 2020

Metrics

Publication: 18

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