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International Researcher IDs

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Education Information

Doctorate, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2019 - Continues

Postgraduate, Karadeniz Technical University, Turkey 2016 - 2019

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2011 - 2016

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, PRİMEVERA P6, TRABZON İNŞAAT MÜHENDİSLERİ ODASI, 2016

Education Management and Planning, AUTOCAD, DÜNYA BİLGİSAYAR, 2015

Dissertations

Postgraduate, ANKASTRE VE SÜRTÜNMELİ SARKAÇ MESNETLİ BİNALARIN DİNAMİK DAVRANIŞLARININ TÜRKİYE BİNA DEPREM YÖNETMELİĞİ 2018' E GÖRE BELİRLENMESİ, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019

Research Areas

Civil Engineering, Structure, Structural Engineering, Steel Structures, Earthquake Engineering, Concrete Structures, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The importance of early strength in structural applications: Obsidian-based geopolymer mortars and silica fumes substitution study**
Çakmak T., Ustabaş İ., Kurt Z., Gürbüz A.
STRUCTURAL CONCRETE, vol.1, no.1, pp.1-19, 2024 (SCI-Expanded)
- II. **Heavy aggregate and different admixtures effect on parquets: chrome, magnetite, and quartz-based surface hardener**
Ustabaş İ., Erdoğan Ş., Üçok M., Kurt Z., Çakmak T.
REVISTA DE LA CONSTRUCCION, vol.23, no.2, pp.230-245, 2024 (SCI-Expanded)
- III. **Effect of Wrapping Thickness and Type on Reinforced Bridge Piers: A Numerical Study**
Gürbüz A., Ustabaş İ., Kurt Z., Deşik F., Çakmak T.
PERIODICA POLYTECHNICA. CIVIL ENGINEERING, pp.1-9, 2024 (SCI-Expanded)
- IV. **Predicting Mechanical Properties in Geopolymer Mortars, Including Novel Precursor Combinations, Through XGBoost Method.**
Yılmaz Y., Çakmak T., Kurt Z., Ustabaş İ.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.1, no.1, pp.1-25, 2024 (SCI-Expanded)
- V. **Geopolymer mortars having glassy materials considering mechanical and microstructural features**
Çakmak T., Ustabaş İ., Kurt Z., Yılmaz E.
JOURNAL OF BUILDING ENGINEERING, vol.91, pp.1-15, 2024 (SCI-Expanded)
- VI. **Heavy aggregate and different admixtures effect on pavings: pyrite, corundum and water-retaining polymer**
Ustabaş İ., Erdoğan Ş., Akyüz C., Kurt Z., Çakmak T.
REVISTA DE LA CONSTRUCCION, vol.23, no.1, pp.31-46, 2024 (SCI-Expanded)
- VII. **A novel framework for strength prediction of geopolymer mortar: Renovative precursor effect**
KURT Z., YILMAZ Y., ÇAKMAK T., USTABAŞ İ.
Journal of Building Engineering, vol.76, 2023 (SCI-Expanded)
- VIII. **Novel binder material in geopolymer mortar production: Obsidian stone powder**
Kurt Z., Ustabaş İ., Çakmak T.
STRUCTURAL CONCRETE, pp.1-14, 2023 (SCI-Expanded)
- IX. **Mechanical and radiation attenuation properties of conventional and heavy concrete with diverse aggregate and water/cement ratios**
Ustabaş İ., Demirci M., Baltas H., Demir Y., Erdoğan Ş., Kurt Z., Çakmak T.
GRADEVINAR, vol.74, no.8, pp.635-645, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **Mechanical and Microstructural Properties of Mortars: Obsidian Powder Effect**
Çakmak T., Gürbüz A., Kurt Z., Ustabaş İ.
Journal of sustainable construction materials and technologies (Online), vol.9, no.2, pp.170-176, 2024 (Peer-Reviewed Journal)
- II. **ESTIMATING THE COMPRESSIVE STRENGTH OF FLY ASH ADDED CONCRETE USING ARTIFICIAL NEURAL NETWORKS**
Kurt Z., Gürbüz A., Çakmak T., Ustabaş İ.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.18, no.4, pp.365-369, 2022 (Peer-Reviewed Journal)
- III. **Genetik Algoritma İle Açıklıkların Farklı Kombinasyonlarına Göre İç Kuvvetlerin Elde Edilmesi**
Çakmak T., Yıldırım Y., Kurt Z.
Sciennovation, vol.3, no.1, pp.1-14, 2021 (Peer-Reviewed Journal)
- IV. **Rize Batıpark Soil Improvement and Strengthening**
Çakmak T., Kurt Z., Yıldırım Y., Denizci F.

- Sciennovation, vol.3, no.1, pp.39-56, 2021 (Peer-Reviewed Journal)
- V. **A Case Study For Retaining Wall Design**
Kurt M., Kurt Z., Yentimur M. F.
Sciennovation, vol.2, no.1, pp.21-28, 2020 (Peer-Reviewed Journal)
- VI. **BETONDA CFRP SARGI UYGULAMASININ DENEYSSEL VE ANALİTİK OLARAK KARŞILAŞTIRILMASI**
Ustabaş İ., Gürbüz A., Kurt Z., Deşik F.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.3, pp.921-930, 2020 (Peer-Reviewed Journal)
- VII. **Performance Analysis of a Reinforced Concrete Frame System According to TBEC-2018**
KURT Z., TONYALI Z.
Sciennovation, vol.1, no.2, pp.6-22, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **CHARACTERIZATION OF EARLY-AGE MECHANICAL AND MICROSTRUCTURAL PROPERTIES OF GEOPOLYMER COMPOSITE MORTARS USING OBSIDIAN POWDER AS BINDER**
Çakmak T., Kurt Z., Ustabaş İ.
ASES II. INTERNATIONAL KAYSERİ SCIENTIFIC RESEARCH CONFERENCE , Kayseri, Turkey, 26 - 28 January 2024, pp.1-9
- II. **ANOVA Method Reveals Key Factors Influencing Geopolymer Strength: A Comprehensive Evaluation of Input Variables**
Yılmaz Y., Çakmak T., Kurt Z.
7th International Symposium on Innovative Approaches in Smart Technologies, İstanbul, Turkey, 23 - 25 October 2023, pp.1-7
- III. **ATIK CAM VE UÇUCU KÜL İÇEREN GEOPOLİMER HARÇLARIN MEKANİK ÖZELLİKLERİNE KÜR SICAKLIĞININ ETKİSİ**
Çakmak T., Kurt Z., Ustabaş İ., Erdoğan Ş.
BETON 2023 KONGRESİ, İstanbul, Turkey, 8 - 10 November 2023, pp.596-606
- IV. **Investigation of mechanical properties of geopolymer concretes with obsidian powder, blast furnace slag and metakaolin**
Kurt Z., Çakmak T., Ustabaş İ.
İCEARC23, Trabzon, Turkey, 12 - 14 October 2023, pp.744-754
- V. **Köprü Ayaklarının CFRP Sargı ile Güçlendirilmesinde Beton Sınıfının Etkisi: İncesu Köprüsü Örneği**
USTABAŞ İ., GÜRBÜZ A., KURT Z., Deşik F.
International Online Conference on Engineering and Natural Sciences (IOCENS'21), Gümüşhane, Turkey, 05 July 2021
- VI. **Sismik İzolasyonlu Betonarme Bir Köprünün Dinamik Analiz Yöntemlerinin Kesit Tesirlerine Etkisi**
Kurt Z., Ateş Ş.
4. Köprüler Viyadükler Sempozyumu, Ankara, Turkey, 1 - 02 November 2019, pp.18-19
- VII. **Dynamic Analysis of Steel Highway Bridge Under Multi- Supported Excitations**
KURT Z., TONYALI Z., ATEŞ Ş.
8. Uluslararası Çelik Yapılar Sempozyumu, 24 - 26 October 2019
- VIII. **EARTHQUAKE ANALYSIS OF HOSPITAL BUILDING WITH SEISMIC ISOLATION TOTURKEY BUILDING EARTHQUAKE CODE 2018**
KURT Z., ATEŞ Ş.
INTERNATIONAL CIVIL ENGINEERING AND ARCHITECTURE CONFERENCE 2019, 17 - 20 April 2019

Metrics

Publication: 24