

Asst. Prof. ALİ İHSAN ÇELİK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Hasan Kalyoncu University, Institute Of Science, İnşaat Mühendisliği, Turkey 2013 - 2018

Postgraduate, Gaziantep University, Faculty Of Engineering, Department Of Mechanical Engineering (English), Turkey 2009 - 2012

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Civil Engineering, Mechanical, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Kayseri University, Tomarza Mustafa Akıncıoğlu Meslek Yüksekokulu, İnşaat Bölümü, 2020 - Continues

Assistant Professor, Adiyaman University, Besni Vocational School, Department Of Computer Technologies, 2020 - 2020

Academic and Administrative Experience

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Kayseri University, Tomarza Mustafa Akıncıoğlu Meslek Yüksekokulu, İnşaat Bölümü, 2022 - Continues

Meslek Yüksekokulu Kurulu Üyesi, Kayseri University, Tomarza Mustafa Akıncıoğlu Meslek Yüksekokulu, İnşaat Bölümü, 2022 - Continues

Head of Department, Kayseri University, Tomarza Mustafa Akıncıoğlu Meslek Yüksekokulu, İnşaat Bölümü, 2020 - Continues

Assistant Director of Vocational School, Kayseri University, Tomarza Mustafa Akıncıoğlu Meslek Yüksekokulu, İnşaat Bölümü, 2020 - 2022

Courses

Çelik Yapılar-II, Associate Degree, 2022 - 2023
STATİK VE MUKAVEMET, Undergraduate, 2023 - 2024
Mukavemet, Associate Degree, 2022 - 2023
Çelik Yapılar, Undergraduate, 2022 - 2023
Betonarme ve Çelik, Undergraduate, 2022 - 2023
YAPI STATİĞİ 2, Associate Degree, 2022 - 2023
Statik, Associate Degree, 2023 - 2024
YAPI STATİĞİ 1, Associate Degree, 2023 - 2024
Çelik Yapılar, Associate Degree, 2023 - 2024
Bilgisayar Destekli Tasarım, Associate Degree, 2023 - 2024
Bilgisayar Destekli Tasarım, Associate Degree, 2023 - 2024
Çelik Yapılar-II, Associate Degree, 2022 - 2023
Matematik-II, Associate Degree, 2021 - 2022
Matematik-II, Associate Degree, 2021 - 2022
Bilgisayar Destekli Çizim, Associate Degree, 2021 - 2022
Yapı Statiği, Associate Degree, 2022 - 2023
Bilgisayar Destekli Çizim, Associate Degree, 2021 - 2022
Çelik Yapılar, Associate Degree, 2021 - 2022
MATEMATİK-II, Associate Degree, 2021 - 2022
Matematik-II, Associate Degree, 2021 - 2022
Yapı Statiği ve Mukavemet, Associate Degree, 2022 - 2023
Kariyer Planlama, Associate Degree, 2021 - 2022

Designed Courses And Trainings

Çelik A. İ., ANSYS Workbench Eğitimi, February 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance of aerated lightweighted concrete using aluminum lathe and pumice under elevated temperature**
Özkılıç Y. O., Karalar M., Özdöner N., Çelik A. İ.
STEEL AND COMPOSITE STRUCTURES, vol.51, no.3, pp.271-288, 2024 (SCI-Expanded)
- II. **Influence of Slag, Silica Fume and Waste Tire Wire on High-Strength Characteristics of Geopolymer Concrete Cured Under Ambient and Oven Conditions**
Çelik A. İ.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.23, no.6, pp.1-21, 2024 (SCI-Expanded)
- III. **Fresh and hardened properties of expansive concrete utilizing waste aluminum lathe**
Özkılıç Y. O., Zeybek Ö., Çelik A. İ., Althaqafi E., Mydin M. A. O., Dulaimi A., Karalar M., Jagadesh P.
Steel and Composite Structures, vol.50, no.5, pp.595-608, 2024 (SCI-Expanded)
- IV. **Effect of the initial imperfection on the response of the stainless steel shell structures**
Çelik A. İ., Zeybek Ö., Özkılıç Y. O.
STEEL AND COMPOSITE STRUCTURES, vol.50, no.6, pp.705-720, 2024 (SCI-Expanded)
- V. **Effects of glass fiber on recycled fly ash and basalt powder based geopolymer concrete**
ÇELİK A. İ., Ozkiliç Y. O., Bahrami A., Hakeem I. Y.
CASE STUDIES IN CONSTRUCTION MATERIALS, vol.19, 2023 (SCI-Expanded)
- VI. **Mechanical performance of geopolymer concrete with micro silica fume and waste steel lathe scraps**

- ÇELİK A. İ., Özkılıç Y. O., Bahrami A., Hakeem I. Y.
Case Studies in Construction Materials, vol.19, 2023 (SCI-Expanded)
- VII. **Buckling of axially loaded shell structures made of stainless steel**
Zeybek O., ÇELİK A. İ., Ozkilog Y. O.
STEEL AND COMPOSITE STRUCTURES, vol.48, no.6, pp.681-691, 2023 (SCI-Expanded)
- VIII. **Mechanical Performance of Geopolymer Concrete Based on Basalt and Marble Powder**
ÇELİK A. İ.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.47, no.4, pp.2173-2187, 2023 (SCI-Expanded)
- IX. **Optimum usage of waste marble powder to reduce use of cement toward eco-friendly concrete**
Ozkilog Y. O., Zeybek O., Bahrami A., Çelik A. İ., Mydin M. A. O., Karalar M., Hakeem I. Y., Roy K., Jagadesh P.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.25, pp.4799-4819, 2023 (SCI-Expanded)
- X. **Production of perlite-based-aerated geopolymer using hydrogen peroxide as eco-friendly material for energy-efficient buildings**
ACAR M. C., ÇELİK A. İ., KAYABAŞI R., ŞENER A., Ozdoner N., Ozkilog Y. O.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.24, pp.81-99, 2023 (SCI-Expanded)
- XI. **Use of Waste Glass Powder toward more Sustainable Geopolymer Concrete**
Çelik A. İ., Tunç U., Bahrami A., Karalar M., Othuman Mydin M. A., Alomayri T., Özkılıç Y. O.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY, vol.24, no.May-June 2023, pp.8533-8546, 2023 (SCI-Expanded)
- XII. **The use of Crushed Recycled Glass for Alkali Activated Fly Ash Based Geopolymer Concrete and Prediction of Its Capacity**
Özkılıç Y. O., Çelik A. İ., Tunç U., Karalar M., Deifalla A., Alomayri T., Althoey F.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY, vol.24, no.May-June 2023, pp.8267-8281, 2023 (SCI-Expanded)
- XIII. **Geopolymer concrete with high strength, workability and setting time using recycled steel wires and basalt powder**
ÇELİK A. İ., Ozkilog Y. O.
STEEL AND COMPOSITE STRUCTURES, vol.46, no.5, pp.689-707, 2023 (SCI-Expanded)
- XIV. **Performance evaluation of fiber-reinforced concrete produced with steel fibers extracted from waste tire**
Zeybek O., Ozkilog Y. O., ÇELİK A. İ., Deifalla A. F., Ahmad M., Sabri Sabri M. M.
FRONTIERS IN MATERIALS, vol.9, 2022 (SCI-Expanded)
- XV. **Mechanical Behavior of Crushed Waste Glass as Replacement of Aggregates**
ÇELİK A. İ., Ozkilog Y. O., Zeybek O., Karalar M., Qaidi S., Ahmad J., Burduhos-Nergis D. D., Bejinariu C.
MATERIALS, vol.15, no.22, 2022 (SCI-Expanded)
- XVI. **Influence of Replacing Cement with Waste Glass on Mechanical Properties of Concrete**
Zeybek Ö., Özkılıç Y. O., Kara M., Çelik A. İ., Qaidi S., Ahmad J., Burduhos-Nergis D. D., Burduhos-Nergis D. P.
MATERIALS, vol.15, no.21, pp.1-17, 2022 (SCI-Expanded)
- XVII. **Effect of Activators in Different Ratios on Compressive Strength of Geopolymer Concrete**
Çelik A. İ., Özbayrak A., Şener A., Acar M. C.
CANADIAN JOURNAL OF CIVIL ENGINEERING, vol.1, no.1, pp.1-26, 2022 (SCI-Expanded)
- XVIII. **Performance Assessment of Fiber-Reinforced Concrete Produced with Waste Lathe Fibers**
Çelik A. İ., Özkılıç Y. O., Zeybek Ö., Özdöner N., Tayeh B. A.
SUSTAINABILITY, vol.14, no.19, pp.1-16, 2022 (SCI-Expanded)
- XIX. **ÇAPRAZ KAMALI HADDELEME KALIP TASARIMINDA UYGULANMASI GEREKEN KUVVET ÜZERİNE ETKİ EDEN PARAMETRELERİN İNCELENMESİ**
Çelik A. İ., Yılmaz N. F.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.28, no.3, pp.501-5011, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Experimental investigation of the effect of longitudinal tensile reinforcement ratio on ductility behaviour in GPC beams**
ÖZBAYRAK A., Çelik A. İ., ACAR M. C., Şener A.
Journal of Sustainable Construction Materials and Technologies, vol.9, no.2, pp.114-127, 2024 (Scopus)
- II. **A LITERATURE REVIEW ABOUT EFFECTS of PHASE CHANGING MATERIALS on COMPRESSIVE STRENGTH and THERMAL CONDUCTIVITY of BUILDING COMPONENTS**
Çelik A. İ., Kayabaşı R., Şener A.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.10, no.4, pp.1495-1508, 2022 (Peer-Reviewed Journal)
- III. **Numerical analysis of flexural and shear behaviors of geopolymer concrete beams**
Çelik A. İ., Özbayrak A., Şener A., Acar M. C.
Journal of Sustainable Construction Materials and Technologies, vol.7, no.2, 2022 (Peer-Reviewed Journal)
- IV. **Impact Analysis of Cylindrical Steel Water Storage Tanks Under the Seismic Action**
Çelik A. İ.
International journal of advances in engineering and pure sciences (Online), vol.34, no.1, pp.1-13, 2022 (Peer-Reviewed Journal)
- V. **Evaluation of energy retention capacity of composite CFRP and GFRP in RC beam strength**
Çelik A. İ.
Evaluation of energy retention capacity of composite CFRP and GFRP in RC beam strength, vol.8, no.2, pp.1-29, 2022 (Peer-Reviewed Journal)
- VI. **THE EFFECT OF ZEOLITE ADDITIVE ON GEOPOLYMER MORTARS**
Acar M. C., Şener A., Özbayrak A., Çelik A. İ.
Mühendislik ve Tasarım Bilimleri Dergisi, vol.8, no.3, pp.820-832, 2020 (Peer-Reviewed Journal)
- VII. **ÇELİK TAHİL DEPOLAMA SİLOLARININ SİSMİK ANALİZİ ÜZERİNE GENEL BİR DEĞERLENDİRME VE YENİ ANALİZ YAKLAŞIMLARI**
Çelik A. İ., Köse M. M.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.2, pp.501-521, 2020 (Peer-Reviewed Journal)
- VIII. **Dynamic buckling analysis of cylindrical steel water storage tanks subjected to Kobe earthquake loading**
Çelik A. İ., Köse M. M.
Steel Construction Design and Research, vol.13, no.2, pp.128-138, 2020 (ESCI)
- IX. **Effects of Shell Thickness on Directional Deformation and Buckling Behaviour Cylindrical Steel Water Tanks Subjected to the Kobe Earthquake**
Çelik A. İ., Köse M. M., Akgül T., Apay A. C.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.2, pp.269-281, 2019 (Peer-Reviewed Journal)
- X. **Strengthening of Cylindrical Steel Water Tank Under the Seismic Loading**
Çelik A. İ., Köse M. M., Akgül T., Apay A. C.
Kahramanmaraş Sütçü İmam Üniversitesi Mühendislik Bilimleri Dergisi, vol.41507441831, no.21, pp.334-345, 2018 (Peer-Reviewed Journal)
- XI. **DIRECTIONAL-DEFORMATION ANALYSIS OF CYLINDRICAL STEEL WATER TANKS SUBJECTED TO EL-CENTRO EARTHQUAKE LOADING**
Çelik A. İ., Köse M. M., Akgül T., Apay A. C.
Sigma Journal of Engineering and Natural Sciences, vol.36, no.4, pp.1033-1046, 2018 (ESCI)
- XII. **PLASTIC DEFORMATION OF CYLINDRICAL STEEL TANK BOTH UNDER THE KOCAELI AND EL-CENTRO EARTHQUAKE**
Çelik A. İ., Akgül T., Apay A. C.
International Journal of Advance Engineering and Research Development, vol.5, no.9, pp.27-35, 2018 (Peer-Reviewed Journal)
- XIII. **Sismik Yükleme Altında Silindirik Çelik Su Tanklarının Gerilme ve Burkulma Analizi**
Çelik A. İ., Akgül T., Apay A. C., Yurtsever A.

Books & Book Chapters

- I. **ANSYS® Workbench ile Mekanik Analizler**
Çelik A. İ.
Nobel Yayınevi, Ankara, 2020
- II. **Step by Step Finite Element Method With ANSYS Workbench**
Çelik A. İ.
Nobel Tıp Kitapevi, Ankara, 2019
- III. **SEISMIC PERFORMANCE and STRENGTHENING of CYLINDRICAL STEEL TANKS**
Çelik A. İ.
Grosset & Dunlap, Inc. see Penguin Putnam Inc., Inc., Riga, 2018
- IV. **ASP.Net ile SQL Server Veri Tabanı Uygulamaları**
Çelik A. İ.
Ekin Yayınevi, Bursa, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Geopolimer Beton İle Üretilen Zemin Kaplama Malzemesi: Parke Taşının Mekanik Performansının İncelenmesi**
Tunç U., Çelik A. İ.
6. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, İstanbul, Turkey, 2 - 03 December 2023, vol.46, no.2023, pp.556-566
- II. **YÜKSEK MUKAVEMETLİ PASLANMAZ ÇELİK KUTU PROFİLLERİN BURKULMA DAVRANIŞLARININ FEM İLE GERÇEKLEŞTİRİLMESİ**
Çelik A. İ.
1. BİLSEL INTERNATIONAL HARPUT SCIENTIFIC RESEARCHES CONGRESS, Elazığ, Turkey, 25 - 26 November 2023, pp.512-524
- III. **THE EFFECT OF PHASE CHANGING MATERIALS ON STRENGHT AND THERMAL CONDUCTIVITY IN BUILDING COMPONENTS**
Çelik A. İ., Kayabaşı R., Şener A.
6. ULUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 17 - 18 December 2020, no.36934, pp.897-905
- IV. **A NEW MODEL PROPOSAL for STEEL DAMPERS DESIGNED to SEISMIC ENERGY DISSIPATION**
Özbayrak A., Çelik A. İ.
6. ULUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 17 - 18 December 2020, vol.39, pp.880-887

Supported Projects

- ACAR M. C., ŞENER A., KAYABAŞI R., TUNÇ U., ÇELİK A. İ., Project Supported by Higher Education Institutions, Yeşil yapı malzemesi olarak Hidrojen Peroksit ve Cam Elyaf Katkıları kullanılarak Ham Perlit esaslı gazlı geopolimer macun ve harçların üretimi, 2023 - Continues
- ÇELİK A. İ., ZEYBEK Ö., ÖZKILIÇ Y. O., Project Supported by Higher Education Institutions, Delik Açılmış İnce Cidarlı Silindirik Paslanmaz Çelik Yapıların İncelenmesi, 2022 - 2023
- ACAR M. C., ŞENER A., KAYABAŞI R., ÇELİK A. İ., Project Supported by Higher Education Institutions, Alkali İle Aktive

Edilmiş Öğütülmüş Ham Perlit Macun ve Harçların Dayanım Özelliklerinin Araştırılması, 2022 - 2023

ÇELİK A. İ., ŞENER A., ACAR M. C., ÖZBAYRAK A., Project Supported by Higher Education Institutions, Geopolimer ve Portland Çimentosu Betonundan Yapılan Betonarme Kirişlerin Mekanik Özelliklerinin Deneysel ve Numerik olarak İncelenmesi, 2020 - 2022

Çelik A. İ., Albyrak M., Kutlu H., Yazan E., Project Supported by Higher Education Institutions, Web tabanlı Eşzamanlı Staj Denetimi ile Mesleki Verimliliğin Artırılması, 2014 - 2016

Scientific Refereeing

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, December 2023

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, November 2023

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, August 2023

PLOS ONE, Journal Indexed in SCI-E, August 2023

SUSTAINABILITY, Journal Indexed in SCI-E, July 2023

SUSTAINABILITY, Journal Indexed in SCI-E, April 2023

BUILDINGS, Journal Indexed in SCI-E, April 2023

SUSTAINABILITY, Journal Indexed in SCI-E, March 2023

BUILDINGS, Journal Indexed in SCI-E, March 2023

SUSTAINABILITY, Journal Indexed in SCI-E, February 2023

SUSTAINABILITY, Journal Indexed in SCI-E, January 2023

APPLIED SCIENCES, Journal Indexed in SCI-E, January 2023

APPLIED SCIENCES, Journal Indexed in SCI-E, January 2023

BUILDINGS, SCI Journal, December 2022

Processes, SCI Journal, December 2022

BUILDINGS, SCI Journal, November 2022

SUSTAINABILITY, SCI Journal, October 2022

JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, SCI Journal, June 2022

Metrics

Publication: 63

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H-Index (WoS): 6