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Education Information

Doctorate, The University of Leeds, Faculty Of Engineering, Civil Engineering, United Kingdom 1992 - 1997

Postgraduate, Cukurova University, Mühendislik Fakültesi , İnşaat Mühendisliği, Turkey 1988 - 1991

Undergraduate, Cukurova University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 1982 - 1988

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Design and Properties of High Volume Fly Ash Concrete for Pavements, The University Of Leeds, Faculty Of Engineering, Civil Engineering, 1997

Postgraduate, Eğrisel Kabuk Yapılar Katlanmış Plak ve Kutu Kesitli Kirişlerin Bilgisayar Yardımı ile Çözümü, Çukurova Üniversitesi, Mühendislik-Mimarlık Fakültesi , İnşaat Mühendisliği, 1991

Research Areas

Civil Engineering, Building materials, Materials in Civil Engineering, Concrete Technology, Building Components and Materials, Engineering and Technology

Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2009 - Continues

Academic and Administrative Experience

Erciyes University, 2013 - 2014

Abdullah Gul University, 2011 - 2012

Erciyes University, 2010 - 2011

Erciyes University, 2008 - 2011

Cukurova University, 1998 - 2007

Advising Theses

- Atiř C. D., MİKRODALGA KÜRÜNÜN F SINIFI UÇUCU KÜL GEOPOLİMER HARCIN DAYANIM GELİŐİMİ ÜZERİNE ETKİSİNİN ARAŐTIRILMASI, Postgraduate, F.MOHAMMED(Student), 2019
- Atiř C. D., Normal kuvvet taşıyan bir, iki ve üç boyutlu çubuk sistemlerin çubuk boyuna uzama elastik eğrisi ve bilgisayar yardımı ile çözümü, Doctorate, Y.FİLİZ(Student), 2019
- Atiř C. D., Organik küller ve inorganik minerallerle üretilen betonların durabilite özelliklerinin araştırılması, Doctorate, M.EKEN(Student), 2018
- Atiř C. D., Alkali ile aktive edilmiş yüksek fırın cürufu geopolimer harçların mekanik ve durabilite özelliklerinin araştırılması, Doctorate, Ő.BİNGÖL(Student), 2018
- Atiř C. D., Deęişken kesit ve deęişken yayılı yük içeren hiperstatik düzlemsel çubuk çerçeve sistemlerin çözümü için Castigliano teoremi ve kuvvet metodu kullanarak mathematica ortamında bir bilgisayar programı geliştirilmesi, Postgraduate, M.SAMİ(Student), 2018
- Atiř C. D., Computer aided solution of in plane loaded frame system using elastic curve approach, Postgraduate, A.MALIK(Student), 2017
- Atiř C. D., Demirel B., Nano sio2 - aerojel katkılı süper ısı yalıtım özellięine sahip beton blok üretim, Postgraduate, I.KUDAM(Student), 2017
- Atiř C. D., Yüksek oranda doğal puzolan katkılı çimentoların hidrasyon, hamur içyapısı ve mekanik özellikleri üzerine nanotaneçik ilavesinin etkisi, Doctorate, S.İL KENTAPAR(Student), 2017
- Atiř C. D., Computer aided solution of in plane frame system under differential temperature changes using elastic curve approach, Postgraduate, F.AHMED(Student), 2017
- Atiř C. D., Investigation of Sugozy fly ash and its usability as cement substitution in mortar in terms of strength and workability, Postgraduate, A.ZAKI(Student), 2017
- Atiř C. D., Computer aided solution of in plane frame system subjected to support movements using elastic curve approach, Postgraduate, M.YASEEN(Student), 2017
- Atiř C. D., Alkali ve çimento ile birlikte aktifleştirilmiş uçucu kül geopolimer harcının mekanik özellikleri, Postgraduate, O.ADWAL(Student), 2016
- Atiř C. D., Measurment and determination of kerbstone bending strength, Postgraduate, A.ABDILAHİ(Student), 2015
- Atiř C. D., Uçucu kül ve yüksek fırın cürufu jeopolimer harçların özellikleri, Doctorate, E.LUGA(Student), 2015
- Atiř C. D., Alkali ile aktifleştirilmiş uçucu kül geopolimer betonun dayanım ve durabilite özelliklerinin araştırılması, Doctorate, E.BAŐŞUDE(Student), 2015
- Atiř C. D., Kuvvet metodu ile iki katlı hiperstatik bir çerçeve sistemin çözümü, Postgraduate, F.ÖZSOY(Student), 2014
- Atiř C. D., Kimyasal katkı içeren alkali ile aktive edilmiş cüruf harçlarının farklı kür koşulları altındaki özellikleri, Postgraduate, S.İL KENTAPAR(Student), 2013
- Atiř C. D., Türkiye kamu inřaat projelerindeki maliyet ve süre sapmalarının yapay zekâ yöntemleri ile kıyaslamalı analizi, Doctorate, S.BAYRAM(Student), 2013
- Atiř C. D., Binalarda dıř cephe ve iç dekorasyon malzemesi olarak fibercement, Postgraduate, S.KILIÇARSLAN(Student), 2012
- Atiř C. D., Eğilmeye Çalıřan Plak Elemanlarda Basınç Bölgesinde Oluřan Çatlakların Eleman Tařıma Gücü Üzerine Etkisinin Arařtırılması, Postgraduate, C.SEVİM(Student), 2010
- Atiř C. D., Ulařımda raylı sistemler ve Kayseray, Postgraduate, A.ULUSOY(Student), 2010
- ATIŐ C. D., Düzlemsel Kafes Kiriř Sistemlerinde Dügüm Deplasmanlarının Castigliano Metodu ile Bulunması, Postgraduate, U.ERDOęAN(Student), 2009
- ATIŐ C. D., Atık pet řiře kırıklarının hafif beton agregası olarak kullanılabilirlięi, Doctorate, S.AKÇAÖZOęLU(Student), 2008
- ATIŐ C. D., Silis dumanı içeren yüksek dayanımlı harçlarda numune boy deęişiminin basınç dayanımı ve birim kılma üzerindeki etkisi, Doctorate, K.AKÇAÖZOęLU(Student), 2007

- ATİŞ C. D., Yüksek fırın curufu katkısının çimento tabanlı malzemelerde kullanılabilirliği, Doctorate, C.BİLİM(Student), 2006
- ATİŞ C. D., Liflerle güçlendirilmiş uçucu küllü betonların özellikleri, Doctorate, O.KARAHAN(Student), 2006
- Atiş C. D., Silis dumanı içeren harç ve betonların özellikleri ve hızlandırılmış kür ile dayanım tahmini, Doctorate, F.ÖZCAN(Student), 2005
- ATİŞ C. D., Silis Dumanı İçeren Betonların Hızlandırılmış Kür İle Dayanım Tahmini, Postgraduate, A.DEMİR(Student), 2005
- ATİŞ C. D., Gecikmiş Etringite Oluşumu Üzerine Bir Kaynak Tarama Araştırması, Postgraduate, M.ARSLAN(Student), 2004
- ATİŞ C. D., Kaynar Su Metodu ve Beton Boru İmalatında Uygulanan Buhar Kürünün Karşılaştırılması, ve İmalathanenin İşletme Prensipleri, Postgraduate, C.TAŞ(Student), 2004
- ATİŞ C. D., Afşin-Elbistan Uçucu Külünün Beton ve Çimento Katkısı Olarak Kullanılabilirliğinin Çimento Hamuru ve Harçlarının Üzerinde Yapılan Deneylerle Araştırılması, Doctorate, U.Korkut(Student), 2003
- Atiş C. D., Afşin-Elbistan uçucu külü içeren betonların bazı özellikleri, Postgraduate, B.GÖKHAN(Student), 2003
- ATİŞ C. D., Beton Hidratasyon Isısı, Basınç ve Çekme Dayanımı ve Boşluk Oranını Etkileyen Bazı Faktörlerin İncelenmesi, Postgraduate, M.Hanifi(Student), 2002
- ATİŞ C. D., Beton Basınç Dayanımını Etkileyen Faktörlerin İncelenmesi, Postgraduate, İ.ÖZBEBEK(Student), 2002
- ATİŞ C. D., Afşin-Elbistan Uçucu Külünün Beton İçinde Kullanılabilirliği ve Hızlandırılmış Kür Uygulaması, Postgraduate, C.BİLİM(Student), 2001
- Atiş C. D., Yüksek dayanımlı beton karışım dizaynı, Postgraduate, K.AKÇAÖZOĞLU(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterizing boron-enhanced one-part alkaline-activated mortars: Mechanical properties, microstructure and environmental impacts**
Örklemez E., İLKENTAPAR S., DURAK U., Gülçimen S., Uzal N., Uzal B., KARAHAN O., ATİŞ C. D.
Construction and Building Materials, vol.426, 2024 (SCI-Expanded)
- II. **Reaction kinetics and properties of pumice-based geopolymer systems cured at room temperature**
Kucukyildirim E., Yorulmaz H., Durak U., İlkentapar S., Uzal B., Karahan O., Atiş C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.409, 2023 (SCI-Expanded)
- III. **Recycling waste expanded polystyrene as aggregate in production of lightweight screed mortar**
Çelikten S., Atabey İ. İ., Almaz Özcan Z., Durak U., İlkentapar S., Karahan O., Atiş C. D.
REVISTA DE LA CONSTRUCCION, vol.22, no.3, pp.585-596, 2023 (SCI-Expanded)
- IV. **Effect of Nano-SiO₂ on Strength and Hydration Characteristics of Ternary Cementitious Systems**
Yorulmaz H., Uzal B., Karahan O., Durak U., İlkentapar S., Atiş C. D.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, no.48, pp.13649-13660, 2023 (SCI-Expanded)
- V. **Influence of Silica Fume Additive and Activator Ratio on Mechanical Properties in Slaked Lime-Based Alkali-Activated Mortars**
KAYA M., KARAHAN O., ATİŞ C. D.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.47, no.2, pp.873-889, 2023 (SCI-Expanded)
- VI. **Properties of fly ash-based lightweight-geopolymer mortars containing perlite aggregates: Mechanical, microstructure, and thermal conductivity coefficient**
Karakas H., İLKENTAPAR S., DURAK U., Orklemez E., Ozuzun S., KARAHAN O., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.362, 2023 (SCI-Expanded)
- VII. **Synergistic effect of waste glass powder and fly ash on some properties of mortar and notably suppressing alkali-silica reaction**
Goksen Y., Durak U., İlkentapar S., Atabey I. I., Kaya M., Karahan O., Atiş C. D.
REVISTA DE LA CONSTRUCCION, vol.22, no.2, pp.419-430, 2023 (SCI-Expanded)
- VIII. **Mechanical properties and efficiency of SIFCON samples at elevated temperature cured with standard and accelerated method**

Ali M. H., ATİŞ C. D., Al-Kamaki Y. S. S.

CASE STUDIES IN CONSTRUCTION MATERIALS, vol.17, 2022 (SCI-Expanded)

- IX. **The influence of cement kiln dust on strength and durability properties of cement-based systems**
Hakkomaz H., Yorulmaz H., Durak U., İlkentapar S., Karahan O., Atiş C. D.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.50, pp.76166-76175, 2022 (SCI-Expanded)
- X. **Examination of mechanical properties and microstructure of alkali activated slag and slag-metakaolin blends exposed to high temperatures**
Akcaozoglu S., Ciflikli M., Bozkaya O., ATİŞ C. D., Ulu C.
STRUCTURAL CONCRETE, vol.23, no.2, pp.1273-1289, 2022 (SCI-Expanded)
- XI. **A new parameter influencing the reaction kinetics and properties of fly ash based geopolymers: A pre-rest period before heat curing**
Durak U., İlkentapar S., Karahan O., Uzal B., Atiş C. D.
JOURNAL OF BUILDING ENGINEERING, vol.35, 2021 (SCI-Expanded)
- XII. **Compressive strength prediction models for cementitious composites with fly ash using machine learning techniques**
Sevim U. K., Bilgic H. H., Cansiz O. F., Ozturk M., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.271, 2021 (SCI-Expanded)
- XIII. **Influence of nano SiO₂ and nano CaCO₃ particles on strength, workability, and microstructural properties of fly ash-based geopolymer**
Durak U., Karahan O., Uzal B., İlkentapar S., Atiş C. D.
STRUCTURAL CONCRETE, vol.22, no.S1, 2021 (SCI-Expanded)
- XIV. **The influence of activator type and quantity on the transport properties of class F fly ash geopolymer**
Atabey I. I., KARAHAN O., Bilim C., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.264, 2020 (SCI-Expanded)
- XV. **Durability Properties of Geopolymer Mortars Containing Slag**
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IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.44, pp.561-569, 2020 (SCI-Expanded)
- XVI. **Very high strength Na₂SiO₃ and NaOH activated fly ash based geopolymer mortar**
Atabey I. I., KARAHAN O., Bilim C., ATİŞ C. D.
CEMENT WAPNO BETON, vol.25, no.4, pp.292-305, 2020 (SCI-Expanded)
- XVII. **Investigation of mechanical and thermal properties of nano SiO₂/hydrophobic silica aerogel co-doped concrete with thermal insulation properties**
Al Zaidi I. K., Demirel B., Atiş C. D., Akkurt F.
STRUCTURAL CONCRETE, vol.21, no.3, pp.1123-1133, 2020 (SCI-Expanded)
- XVIII. **An investigation of resistance of sodium meta silicate activated slag mortar to acidic and basic mediums**
Bingol S., Bilim C., Atiş C. D., Durak U., İlkentapar S., Karahan O.
REVISTA DE LA CONSTRUCCION, vol.19, no.1, pp.127-133, 2020 (SCI-Expanded)
- XIX. **Mechanical properties of class C and F fly ash geopolymer mortars**
Kaya M., Uysal M., Yilmaz K., KARAHAN O., ATİŞ C. D.
GRADEVINAR, vol.72, no.4, pp.297-309, 2020 (SCI-Expanded)
- XX. **Experimental investigation on properties of recycled aggregate concrete with optimized Ball Milling Method**
DİLBAS H., ÇAKIR Ö., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.212, pp.716-726, 2019 (SCI-Expanded)
- XXI. **Estimation of Compressive Strength of Concrete Using Physico-Mechanical Properties of Aggregate Rock**
Kilic A., Teymen A., Ozdemir O., ATİŞ C. D.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.43, pp.171-178,

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- XXII. **Resistance of polypropylene fibered mortar to elevated temperature under different cooling regimes**
Karahan O., Durak U., İlkentapar S., Atabey I. I., Atiş C. D.
REVISTA DE LA CONSTRUCCION, vol.18, no.2, pp.386-397, 2019 (SCI-Expanded)
- XXIII. **Influence of waste marble powder as a replacement of cement on the properties of mortar**
Yamanel K., Durak U., İlkentapar S., Atabey I. I., Karahan O., Atiş C. D.
REVISTA DE LA CONSTRUCCION, vol.18, no.2, pp.290-300, 2019 (SCI-Expanded)
- XXIV. **Effect of different storage methods on thermal and mechanical properties of mortar containing aerogel, fly ash and nano-silica**
Al Zaidi A. K. A., DEMİREL B., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.199, pp.501-507, 2019 (SCI-Expanded)
- XXV. **Optimization of heat cured fly ash/slag blend geopolymer mortars designed by "Combined Design" method: Part 1**
LUGA E., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.178, pp.393-404, 2018 (SCI-Expanded)
- XXVI. **The effect of coarse to fine aggregate ratio on the fresh and hardened properties of roller-compacted concrete pavement**
HASHEMI M., SHAFIGH P., BIN KARIM M. R., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.169, pp.553-566, 2018 (SCI-Expanded)
- XXVII. **Behaviour of Geopolymer Mortars after Exposure to Elevated Temperatures**
Kaya M., Uysal M., Yilmaz K., ATİŞ C. D.
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.24, no.4, pp.428-436, 2018 (SCI-Expanded)
- XXVIII. **Influence of duration of heat curing and extra rest period after heat curing on the strength and transport characteristic of alkali activated class F fly ash geopolymer mortar**
İlkentapar S., Atiş C. D., Karahan O., Avsaroglu E. B. G.
CONSTRUCTION AND BUILDING MATERIALS, vol.151, pp.363-369, 2017 (SCI-Expanded)
- XXIX. **Investigation of mechanical properties of mortars with carbon fiber using multi slice computed tomography**
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- XXX. **Ground Granulated Pumice-Based Cement Mortars Exposed to Abrasion and Fire**
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- XXXI. **Identifying the bond and abrasion behavior of alkali activated concretes by central composite design method**
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- XXXII. **Strength properties of slag/fly ash blends activated with sodium metasilicate**
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GRADEVINAR, vol.69, no.3, pp.199-205, 2017 (SCI-Expanded)
- XXXIII. **Effects of milled cut steel fibers on the properties of concrete**
Karahan O., Ozbay E., ATİŞ C. D., Lachemi M., Hossain K. M. A.
KSCE JOURNAL OF CIVIL ENGINEERING, vol.20, no.7, pp.2783-2789, 2016 (SCI-Expanded)
- XXXIV. **The influence of elevated temperature on strength and microstructure of high strength concrete containing ground pumice and metakaolin**
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- XXXV. **Strength Properties of Slag/Fly Ash Blends Activated with Sodium Metasilicate and Sodium Hydroxide plus Silica Fume**
LUGA E., ATİŞ C. D.

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- XXXVI. **COMPARISON OF MULTI LAYER PERCEPTRON (MLP) AND RADIAL BASIS FUNCTION (RBF) FOR CONSTRUCTION COST ESTIMATION: THE CASE OF TURKEY**
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- XXXVII. **Very high strength (120 MPa) class F fly ash geopolymers mortar activated at different NaOH amount, heat curing temperature and heat curing duration**
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- XXXVIII. **Effects of chemical admixtures and curing conditions on some properties of alkali-activated cementless slag mixtures**
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- XXXIX. **Thermal conductivity, compressive strength and ultrasonic wave velocity of cementitious composite containing waste PET lightweight aggregate (WPLA)**
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- XL. **Dual effectiveness of freezing-thawing and sulfate attack on high-volume slag-incorporated ECC**
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- XL1. **Influence of admixtures on the properties of alkali-activated slag mortars subjected to different curing conditions**
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- XLII. **The effects of pyrite ash on the compressive strength properties of briquettes**
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- XLIV. **Fresh, Mechanical, Transport, and Durability Properties of Self-Consolidating Rubberized Concrete**
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- XLV. **Alkali activation of mortars containing different replacement levels of ground granulated blast furnace slag**
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- LII. **Relation between Strength Properties (Flexural and Compressive) and Abrasion Resistance of Fiber (Steel and Polypropylene)-Reinforced Fly Ash Concrete**
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- LIII. **Predicting the compressive strength of ground granulated blast furnace slag concrete using artificial neural network**
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