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Publons / Web Of Science ResearcherID: G-6964-2018

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Education Information

Doctorate, The University of Birmingham, Engineering, Civil, United Kingdom 1976 - 1981

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey 1971 - 1975

Research Areas

Civil Engineering, Structure, Structural Engineering, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık, İnşaat, 1992 - Continues

Advising Theses

DÜNDAR C., Betonarme yapıların çatlama etkisi göz önüne alınarak lineer olmayan analizi, Doctorate, İ.Fatih(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **2 years of monitoring results from passive solar energy storage in test cabins with phase change materials**
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SOLAR ENERGY, vol.200, pp.29-36, 2020 (SCI-Expanded)
- II. **Analysis of R/C frames considering cracking effect and plastic hinge formation**
Kara I. F., Ashour A. F., DÜNDAR C.
STRUCTURAL ENGINEERING AND MECHANICS, vol.63, no.5, pp.669-681, 2017 (SCI-Expanded)

- III. **A study on load-deflection behavior of two-span continuous concrete beams reinforced with GFRP and steel bars**
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STRUCTURAL ENGINEERING AND MECHANICS, vol.63, no.5, pp.629-637, 2017 (SCI-Expanded)
- IV. **Robust microencapsulated phase change materials in concrete mixes for sustainable buildings**
Beyhan B., CELLAT K., Konuklu Y., GUNGOR C., KARAHAN O., DÜNDAR C., Paksoy H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.41, no.1, pp.113-126, 2017 (SCI-Expanded)
- V. **Prediction of load-deflection behavior of multi-span FRP and steel reinforced concrete beams**
DÜNDAR C., Tanrikulu A. K., FROSCHE R. J.
COMPOSITE STRUCTURES, vol.132, pp.680-693, 2015 (SCI-Expanded)
- VI. **Studies on carbon fiber polymer confined slender plain and steel fiber reinforced concrete columns**
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ENGINEERING STRUCTURES, vol.102, pp.31-39, 2015 (SCI-Expanded)
- VII. **Thermal enhancement of concrete by adding bio-based fatty acids as phase change materials**
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ENERGY AND BUILDINGS, vol.106, pp.156-163, 2015 (SCI-Expanded)
- VIII. **Deflection of concrete structures reinforced with FRP bars**
KARA I. F., Ashour A. F., DÜNDAR C.
COMPOSITES PART B-ENGINEERING, vol.44, no.1, pp.375-384, 2013 (SCI-Expanded)
- IX. **Strength of biaxially loaded high strength reinforced concrete columns**
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STRUCTURAL ENGINEERING AND MECHANICS, vol.44, no.5, pp.649-661, 2012 (SCI-Expanded)
- X. **Experimental behaviour of steel fiber high strength reinforced concrete and composite columns**
Tokgoz S., DÜNDAR C., TANRIKULU A. H.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.74, pp.98-107, 2012 (SCI-Expanded)
- XI. **Tests of eccentrically loaded L-shaped section steel fibre high strength reinforced concrete and composite columns**
Tokgoz S., DÜNDAR C.
ENGINEERING STRUCTURES, vol.38, pp.134-141, 2012 (SCI-Expanded)
- XII. **Prediction of deflection of high strength steel fiber reinforced concrete beams and columns**
KARA I. F., DÜNDAR C.
COMPUTERS AND CONCRETE, vol.9, no.2, pp.133-151, 2012 (SCI-Expanded)
- XIII. **CONSTRUCTION AND PERFORMANCE TEST OF A LOW-COST SHAKE TABLE**
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- XIV. **Experimental study on steel tubular columns in-filled with plain and steel fiber reinforced concrete**
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- XV. **Load-Deflection Curves of Reinforced Concrete Columns Subjected to Biaxial Bending and Axial Load**
Tokgoz S., DÜNDAR C.
TEKNIK DERGI, vol.21, no.2, pp.5037-5057, 2010 (SCI-Expanded)
- XVI. **Three-Dimensional Analysis of Tall Reinforced Concrete Buildings with Nonlinear Cracking Effects#**
KARA I. F., DÜNDAR C.
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.38, no.3, pp.388-402, 2010 (SCI-Expanded)
- XVII. **Effect of loading types and reinforcement ratio on an effective moment of inertia and deflection of a reinforced concrete beam**
KARA I. F., DÜNDAR C.
ADVANCES IN ENGINEERING SOFTWARE, vol.40, no.9, pp.836-846, 2009 (SCI-Expanded)
- XVIII. **Prediction of deflection of reinforced concrete shear walls**
KARA I. F., DÜNDAR C.
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- XIX. **Three dimensional analysis of reinforced concrete frames considering the cracking effect and geometric nonlinearity**
KARA I. F., DÜNDAR C.
STRUCTURAL ENGINEERING AND MECHANICS, vol.31, no.2, pp.163-180, 2009 (SCI-Expanded)
- XX. **Experimental tests on biaxially loaded concrete-encased composite columns**
Tokgoz S., DÜNDAR C.
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- XXI. **Behaviour of reinforced and concrete-encased composite columns subjected to biaxial bending and axial load**
DÜNDAR C., TOKGOZ S., TANRIKULU A. H., BARAN T.
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- XXII. **Three dimensional analysis of reinforced concrete frames with cracked beam and column elements**
Dundar C., KARA I. F.
ENGINEERING STRUCTURES, vol.29, no.9, pp.2262-2273, 2007 (SCI-Expanded)
- XXIII. **Dynamic analysis of a vertical plate exposed to breaking wave impact**
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OCEAN ENGINEERING, vol.31, no.13, pp.1623-1635, 2004 (SCI-Expanded)
- XXIV. **Optimum design of prestressed concrete beams by a modified grid search method**
CAGATAY I., Dundar C., AKSOGAN O.
STRUCTURAL ENGINEERING AND MECHANICS, vol.15, no.1, pp.39-52, 2003 (SCI-Expanded)
- XXV. **Theoretical and experimental investigation of a vertical wall response to wave impact**
TANRIKULU A., KIRKGOZ M. S., Dundar C.
OCEAN ENGINEERING, vol.29, no.7, pp.769-782, 2002 (SCI-Expanded)
- XXVI. **A computer program for the analysis of reinforced concrete frames with cracked beam elements**
TANRIKULU A., Dundar C., CAGATAY I.
STRUCTURAL ENGINEERING AND MECHANICS, vol.10, no.5, pp.463-478, 2000 (SCI-Expanded)
- XXVII. **ARBITRARILY-SHAPED REINFORCED-CONCRETE MEMBERS SUBJECT TO BIAXIAL BENDING AND AXIAL LOAD**
DUNDAR C., SAHIN B.
COMPUTERS & STRUCTURES, vol.49, no.4, pp.643-662, 1993 (SCI-Expanded)
- XXVIII. **ASSESSMENT OF A CONTINUUM MODEL PROPOSED FOR THE DYNAMIC SHEAR BEHAVIOR OF MULTI-STOREY FRAMES**
MENGI Y., DUNDAR C.
JOURNAL OF SOUND AND VIBRATION, vol.125, no.2, pp.367-377, 1988 (SCI-Expanded)
- XXIX. **A HIGHER-ORDER CONTINUUM MODEL FOR THE DYNAMIC SHEAR BEHAVIOR OF MULTI-STOREY FRAMES**
DUNDAR C., MENGI Y., KIRAL E.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.12, no.6, pp.761-775, 1984 (SCI-Expanded)

Articles Published in Other Journals

- I. **Hibrit Donatılı Basit Mesnetli Betonarme Kirişlerin Yük-Deplasman Davranışının İncelenmesi**
UNSAI İ., TOKGÖZ S., ÇAĞATAY İ. H., DÜNDAR C.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.33, no.2, pp.45-56, 2018 (Peer-Reviewed Journal)
- II. **Investigation of the behavior of carbon fiber reinforced polymer confined standard cylinder concrete specimens under axial load**
Erturkmen D., DÜNDAR C., Tokgoz S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.6, pp.679-686, 2017 (ESCI)

- III. **Karbon lifli polimer sargılı standart silindirik beton numunelerin eksenel yük altındaki davranışlarının incelenmesi**
ERTÜRKMEN D., DÜNDAR C., TOKGÖZ S.
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- IV. **Yapıların Dinamik Analizinde Kullanılan Sönüm Modellerinin İncelenmesi**
KARAAHMETLİ S., DÜNDAR C.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.32, no.2, pp.23-35, 2017 (Peer-Reviewed Journal)
- V. **Çekme Rijitleşmesinin FRP ve Çelik Donatılı Betonarme Kirişlerin Yük Deplasman Davranışı Üzerindeki Etkisi**
ÜNSAL İ., DÜNDAR C., TANRIKULU A. K.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.31, no.1, pp.429-439, 2016 (Peer-Reviewed Journal)
- VI. **Karbon Lifli Polimer Sargılı Narin Betonarme Kolonların Moment Büyütme Yöntemi ile Analizi**
ERTÜRKMEN D., DÜNDAR C., TOKGÖZ S.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.31, no.1, pp.11-22, 2016 (Peer-Reviewed Journal)
- VII. **Öngerilmeli Beton Kirişlerin Optimum Kesit Alanının Hesabı İçin Bir Formül**
DÜNDAR C., ÇAĞATAY İ. H.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.10, pp.37-50, 1995 (Peer-Reviewed Journal)
- VIII. **Öngerilmeli Kirişlerde Kesit Yüksekliğinin Seçilmesinde Pratik Bir Formül**
DÜNDAR C., ÇAĞATAY İ. H.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.7, no.1, pp.231-238, 1992 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **ADANA'YA GÖÇ İLE GELEN İŞGÜCÜNÜN KENT EKONOMİSİNE ENTEGRASYONU**
AY Ü., DÜNDAR C., KILIÇBEYLİ E. H., GÜVEL E., YAŞAR N.
in: DOĞU VE GÜNEYDOĞU ANADOLU BÖLGELERİNDEN ADANA'YA GÖÇ EDEN İŞGÜCÜNÜN YAPISAL ANALİZİ VE KENT EKONOMİSİNE ENTEGRASYONU, AY Ü., DÜNDAR C., GÜVEL E.A., KILIÇBEYLİ E.Ç., YAŞAR N., Editor,
Çukurova Üniversitesi Bizim Büro Basımevi, Adana, pp.66-86, 2001

Refereed Congress / Symposium Publications in Proceedings

- I. **2 Years of Monitoring Results From Passive Solar Energy Storage in Test Cabins With Phase Change Materials**
CELLAT K., BEYHAN B., KONUKLU Y., DÜNDAR C., KARAHAN O., GÜNGÖR C., PAKSOY H. Ö.
14th International Conference on Energy Storage, Adana, Turkey, 25 - 28 April 2018
- II. **Yapı Sönüm Oranının Belirlenmesinde Kullanılan Yöntemlerin Sayısal ve Deneysel Olarak İncelenmesi**
KARAAHMETLİ S., DÜNDAR C.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- III. **BEHAVIOR OF PLAIN AND STEEL FIBER HIGH STRENGTH REINFORCED CONCRETE COLUMNS CONFINED WITH CFRP**
ERTÜRKMEN D., DÜNDAR C., TOKGÖZ S.
The First European and Mediterranean Structural Engineering and Construction Conference EURO-MED-SEC-1, İstanbul, Turkey, 24 - 29 May 2016, pp.111-116
- IV. **Tension Stiffening Effect on the Flexural Behavior of FRP and Steel Reinforced Concrete Beams**
TANRIKULU A. K., ÜNSAL İ., DÜNDAR C.
2016 Global Conference on Polymer and Composite Materials, Hangzhou, China, 20 - 23 May 2016

- V. **Prediction of load deflection behavior of multi span FRP and steel reinforced concrete beams**
DÜNDAR C., TANRIKULU A. K., FROSCHE R. J.
2016 Global Conference on Polymer and Composite Materials, Hangzhou, China, 20 - 23 May 2016
- VI. **DESIGNING MICROCAPSULES TO SAVE ENERGY IN BUILDINGS**
PAKSOY H. Ö., CELLAT K., BEYHAN B., KONUKLU Y., KARAHAN O., DÜNDAR C.
Design and Manufacture of Functional Microcapsules and Engineered Particles, Siracusa, Italy, 3 - 07 April 2016
- VII. **Novel microencapsulated phase change material for thermal energy storage in building applications**
PAKSOY H. Ö., Beyhan B., Cellat K., KONUKLU Y., KARAHAN O., DÜNDAR C.
Innostorage Advances in Thermal Energy Storage Conference, 16 February 2016
- VIII. **New Microencapsulated Phase Change Material for Thermal Energy Storage in Building Applications**
BEYHAN B., CELLAT K., PAKSOY H. Ö., KONUKLU Y., KARAHAN O., DÜNDAR C., GÜNGÖR C.
The 13th International Conference on Energy Storage(Greenstock 2015), 19 - 22 May 2015
- IX. **Passive Thermal Storage in Buildings with a Novel Composite Panel**
CELLAT K., BEYHAN B., PAKSOY H. Ö., GÜNGÖR C., KONUKLU Y., KARAHAN O., DÜNDAR C.
The 13th International Conference on Energy Storage(Greenstock 2015), 19 - 22 May 2015
- X. **Bina Yapı Malzemeleri İçin Mikrokapsülenmiş Faz Değiştiren Madde Geliştirilmesi**
Beyhan B., Cellat K., Karahan O., Konuklu Y., Dündar C., PAKSOY H. Ö.
12. Ulusal Tesisat Mühendisliği Kongresi, Binalarda Enerji Performansı Sempozyumu, İzmir, Turkey, 8 - 11 April 2015, pp.1471-1480
- XI. **Bina Isıl Konforunun Sağlanmasında Faz Değiştiren Madde Kullanımı**
Cellat K., Beyhan B., PAKSOY H. Ö., Karahan O., Konuklu Y., Dündar C.
12. Ulusal Tesisat Mühendisliği Kongresi, Termodinamik Sempozyumu, İzmir, Turkey, 8 - 11 April 2015, pp.1689-1700
- XII. **Passive Heating and Cooling of Buildings Using Microencapsulated Phase Change Materials in Concrete Mixtures**
PAKSOY H. Ö., Cellat K., Beyhan B., Karahan O., Konuklu Y., Dündar C.
SOLARTR 2014 Conference & Exhibition, İzmir, Turkey, 19 - 21 November 2014, pp.451-457
- XIII. **Faz Değiştiren Maddelerin Koaservasyon Yöntemi İle Kapsülenmesi ve Bina Uygulamalarında Kullanımı**
Cellat K., Ünal M., Beyhan B., Karahan O., Konuklu Y., Dündar C., PAKSOY H. Ö.
V. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Tokat, Turkey, 1 - 04 September 2014, pp.127
- XIV. **Enhancing Thermal Properties of Concrete Mixtures with Phase Change Materials**
Cellat K., Varkal İ., PAKSOY H. Ö., Konuklu Y., Karahan O., Dündar C.
Sustainable Energy Storage in Buildings Conference, Dublin, Ireland, 19 - 21 July 2013, pp.48-53
- XV. **3D analysis of RC frames using effective-stiffness models**
DÜNDAR C., KARA İ. O.
6th International Conference on Fracture Mechanics of Concrete and Concrete Structures, Catania, Italy, 17 - 22 June 2007, pp.737-744

Expert Reports

- I. **27 Haziran 1988 Adana-Ceyhan Depremi**
ACAR A., Dağistan K., Serbest H., Kırıl E., Dündar C., Tanrikulu K.
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Supported Projects

DÜNDAR C., Project Supported by Higher Education Institutions, Eksantrik Yük Etkisi Altında Karbon Fiber Polimer Sargılı Betonarme Kolonların Davranışlarının İncelenmesi, 2013 - 2017

DÜNDAR C., Project Supported by Higher Education Institutions, Lifli Polimer (FRP) Donatılı Yüksek Dayanımlı Derin Kirişler Üzerinde Teorik ve Deneysel Araştırma, 2016 - 2016

DÜNDAR C., Project Supported by Higher Education Institutions, Prediction of load deflection behavior of multispan FRP and steel reinforced concrete beams, 2016 - 2016

DÜNDAR C., Project Supported by Higher Education Institutions, Bilimsel Yayın Teşvik Desteği, 2015 - 2016

Metrics

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