

## Prof. CENGİZ DÜNDAR

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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

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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., Gungor C., Paksoy H.  
SOLAR ENERGY, vol.200, pp.29-36, 2020 (Journal Indexed in SCI)
- II. **Analysis of R/C frames considering cracking effect and plastic hinge formation**  
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STRUCTURAL ENGINEERING AND MECHANICS, vol.63, no.5, pp.669-681, 2017 (Journal Indexed in SCI)
- III. **A study on load-deflection behavior of two-span continuous concrete beams reinforced with GFRP and steel bars**  
UNSAI I., TOKGOZ S., ÇAĞATAY İ. H. , DÜNDAR C.  
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- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)
- VI. **Studies on carbon fiber polymer confined slender plain and steel fiber reinforced concrete columns**  
DÜNDAR C., Erturkmen D., Tokgoz S.  
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- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- IX. **Strength of biaxially loaded high strength reinforced concrete columns**  
DÜNDAR C., Tokgoz S.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.44, no.5, pp.649-661, 2012 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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**  
Tokgoz S., DÜNDAR C.  
THIN-WALLED STRUCTURES, vol.48, no.6, pp.414-422, 2010 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XVIII. **Prediction of deflection of reinforced concrete shear walls**  
KARA I. F. , DÜNDAR C.  
ADVANCES IN ENGINEERING SOFTWARE, vol.40, no.9, pp.777-785, 2009 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XX. **Experimental tests on biaxially loaded concrete-encased composite columns**

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STEEL AND COMPOSITE STRUCTURES, vol.8, no.5, pp.423-438, 2008 (Journal Indexed in SCI)
- XXI. **Behaviour of reinforced and concrete-encased composite columns subjected to biaxial bending and axial load**  
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BUILDING AND ENVIRONMENT, vol.43, no.6, pp.1109-1120, 2008 (Journal Indexed in SCI)
- XXII. **Three dimensional analysis of reinforced concrete frames with cracked beam and column elements**  
Dundar C., KARA I. F.  
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- XXIII. **Dynamic analysis of a vertical plate exposed to breaking wave impact**  
KIRKGOZ M. S. , TANRIKULU A., Dundar C.  
OCEAN ENGINEERING, vol.31, no.13, pp.1623-1635, 2004 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XXV. **Theoretical and experimental investigation of a vertical wall response to wave impact**  
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OCEAN ENGINEERING, vol.29, no.7, pp.769-782, 2002 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XXVIII. **ASSESSMENT OF A CONTINUUM MODEL PROPOSED FOR THE DYNAMIC SHEAR BEHAVIOR OF MULTI-STOREY FRAMES**  
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- XXIX. **A HIGHER-ORDER CONTINUUM MODEL FOR THE DYNAMIC SHEAR BEHAVIOR OF MULTI-STOREY FRAMES**  
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EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.12, no.6, pp.761-775, 1984 (Journal Indexed in SCI)

## 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 (Other Refereed National Journals)
- II. **Investigation of the behavior of carbon fiber reinforced polymer confined standard cylinder concrete specimens under axial load**  
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PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.6, pp.679-686, 2017 (Journal Indexed in ESCI)
- III. **Karbon lifli polimer sargılı standart silindir beton numunelerin eksenel yük altındaki davranışlarının incelenmesi**  
ERTÜRKMEN D., DÜNDAR C., TOKGÖZ S.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.23, no.6, pp.679-686, 2017 (Other Refereed National Journals)

- 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 (Other Refereed National Journals)
- 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 (Other Refereed National Journals)
- 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 (Other Refereed National Journals)

## 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.ÇH., 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. , FROSCH 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 Eney 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 Kapsüllenmesi 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., Tanrıkulu K.  
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## Citations

Total Citations (WOS):418

h-index (WOS):12