

## Prof. OKAN ÖZCAN

### Personal Information

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### International Researcher IDs

ScholarID: [\\_xmxAMAAAAJ](#)

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Publons / Web Of Science ResearcherID: [C-1017-2016](#)

ScopusID: [7005502532](#)

Yoksis Researcher ID: [120720](#)

### Biography

1981 yılında Kocaeli/Gölcük 'ye doğdum.İlk,orta ve lise eğitimini TED Ankara Kolejinde tamamladım ve 1998 yılında İstanbul Teknik Üniversitesi İnşaat Mühendisliği bölümünde eğitime başladım.2002 yılında mezun oldum.Aynı yıl Akdeniz Üniversitesi Öğretim üyesi yetiştirme programı (ÖYP) kapsamında ODTÜ İnşaat Mühendisliği Bölümü Yapı Mekaniği AD da bütünleşik doktora eğitim programına başladım.Doktora eğitiminin 2008-2009 yılları arasında Ottawa Üniversitesi yapı ve deprem mühendisliği araştırma merkezinde çalışmalar yaptıktan sonra 2009 yılında doktora eğitimini tamamladım.2010-2011 yılları arasında askerlik görevini Yedek Subay olarak Eskişehir'de yaptım.2012-2013 yılları arasında doktora sonrası eğitimimi Ottawa Üniversitesinin aynı bölümünde yaptım.2014 yılında Yrd.Doç. olarak atandım.2015 yılında sınavda başarılı olarak Doç.ünvanını aldım ve Yapı AD.öğretim üyeliğine atandım.Halen aynı görevime devam etmekteyim.Çok iyi düzeyde İngilizce ve orta düzeyde Almanca bilmekteyim.

### Education Information

Post Doctorate, University of Ottawa, Faculty Of Engineering, Civil Engineering Department, Canada 2012 - 2013

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2002 - 2009

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1998 - 2002

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Education Management and Planning, Overhead Crane Operator, University of Ottawa / Engineering Faculty / Civil Engineering Department, 2013

## **Dissertations**

Doctorate, Improving Ductility and Shear Capacity of Reinforced Concrete Columns with Carbon Fiber Reinforced Polymer, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2009

## **Research Areas**

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

## **Academic Titles / Tasks**

Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2022 - Continues  
Associate Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2015 - 2022  
Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2014 - 2015  
Research Assistant PhD, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2009 - 2014  
Other, University of Ottawa, Engineering Faculty, Civil Engineering Department, 2012 - 2013  
Other, University of Ottawa, Engineering Faculty, Civil Engineering Department, 2008 - 2009  
Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2002 - 2009

## **Academic and Administrative Experience**

Deputy Head of Department, Akdeniz University, Faculty Of Engineering, Department of Civil Engineering, 2022 - Continues  
Birim Kalite Komisyonu Üyesi, Akdeniz University, Faculty Of Engineering, 2020 - Continues  
Bölüm Kalite Komisyonu Başkanı, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues

## **Courses**

Steel Structures, Undergraduate, 2016 - 2017  
Strength of Materials II, Undergraduate, 2016 - 2017  
Betonarme Yapı Tasarımı, Undergraduate, 2016 - 2017  
Depreme Dayanıklı Yapı Tasarımı, Postgraduate, 2016 - 2017  
Teknik Resim, Undergraduate, 2014 - 2015  
Bilgisayar Destekli Çizim, Undergraduate, 2014 - 2015

## **Jury Memberships**

Post Graduate, Tez Savunma Jürisi - Ahmet Arslan, Akdeniz Üniversitesi, July, 2016  
Post Graduate, Tez Savunma Jürisi - Selin Yıldırım, Akdeniz Üniversitesi, July, 2016  
Post Graduate, Tez Savunma Jürisi - Turgut Acıkara, Akdeniz Üniversitesi, July, 2016  
Post Graduate, Tez Savunma Jürisi - Murat Atıcı, Akdeniz Üniversitesi, July, 2016

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Efficiency analysis of solar farms by UAV-based thermal monitoring**  
Akay S. S., Özcan O., ÖZCAN O., Yetemen Ö.  
Engineering Science and Technology, an International Journal, vol.53, 2024 (SCI-Expanded)
- II. **Plastic rotation capacity of RC columns under biaxial seismic demands**  
ÖZCAN O., BİNİCİ B.  
Bulletin of Earthquake Engineering, vol.21, no.4, pp.1979-2012, 2023 (SCI-Expanded)
- III. **Seismic Performance Assessment of RC Buildings Reinforced with Plain Rebars**  
Özcan O., Erdoğan H.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.36, no.2, pp.1-15, 2022 (SCI-Expanded)
- IV. **Multi-temporal UAV based repeat monitoring of rivers sensitive to flood**  
Özcan O., ÖZCAN O.  
JOURNAL OF MAPS, vol.17, no.3, pp.163-170, 2021 (SCI-Expanded)
- V. **Automated UAV based multi-hazard assessment system for bridges crossing seasonal rivers**  
Özcan O., ÖZCAN O.  
SMART STRUCTURES AND SYSTEMS, vol.27, no.1, pp.35-52, 2021 (SCI-Expanded)
- VI. **Rotation Capacities of RC Columns Reinforced with Plain Rebars**  
ÖZCAN O.  
JOURNAL OF EARTHQUAKE ENGINEERING, vol.25, no.2, pp.188-209, 2021 (SCI-Expanded)
- VII. **A drift capacity prediction model for retrofitted reinforced concrete columns**  
Özcan O., Binici B.  
Magazine Of Concrete Research, vol.1, no.1, pp.1-15, 2021 (SCI-Expanded)
- VIII. **Seismic failure analysis of concrete bridges exposed to scour**  
Zaky A., Özcan O., Avsar O.  
ENGINEERING FAILURE ANALYSIS, vol.115, 2020 (SCI-Expanded)
- IX. **EFFECT OF HYDROGEOMORPHOLOGICAL CHANGES IN FLOOD PLAIN ON BRIDGE MULTI-HAZARD PERFORMANCE**  
Özcan O., ÖZCAN O.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.956-962, 2019 (SCI-Expanded)
- X. **Coupling Beams with Welded Grids under Reversed Cyclic Loading**  
ÖZCAN O., Saatcioglu M.  
ACI STRUCTURAL JOURNAL, vol.115, no.4, pp.1199-1212, 2018 (SCI-Expanded)
- XI. **MULTI-HAZARD ASSESSMENT OF RC BRIDGES USING UNMANNED AERIAL VEHICLE-BASED MEASUREMENTS**  
Özcan O., ÖZCAN O.  
BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.13, no.3, pp.192-208, 2018 (SCI-Expanded)
- XII. **Stiffness modeling of RC columns reinforced with plain rebars**  
Ozcan O.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.50, no.2, pp.163-180, 2014 (SCI-Expanded)
- XIII. **Repair and strengthening of reinforced concrete columns with CFRPs**  
ÖZCAN O., BİNİCİ B., CANBAY E., Ozcebe G.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.29, no.22, pp.3411-3424, 2010 (SCI-Expanded)
- XIV. **Investigation of FRP Strengthening Design Rules for Insufficient RC Columns**  
ÖZCAN O., BİNİCİ B., Ozcebe G.  
TEKNIK DERGI, vol.21, no.4, pp.5219-5239, 2010 (SCI-Expanded)
- XV. **Seismic strengthening of rectangular reinforced concrete columns using fiber reinforced polymers**  
ÖZCAN O., BİNİCİ B., Ozcebe G.  
ENGINEERING STRUCTURES, vol.32, no.4, pp.964-973, 2010 (SCI-Expanded)
- XVI. **Improving seismic performance of deficient reinforced concrete columns using carbon fiber-reinforced polymers**  
ÖZCAN O., BİNİCİ B., Ozcebe G.  
ENGINEERING STRUCTURES, vol.30, no.6, pp.1632-1646, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **UAV-based thermal monitoring of solar panels for different topographic conditions**  
Akay S. S., Özcan O., Özcan O., Yetemen Ö.  
Advanced UAV, vol.4, no.1, pp.53-61, 2024 (Peer-Reviewed Journal)
- II. **Internal force transfer in segmental RC structures**  
Bashirzade S., Özcan O., Çağdaş I. U.  
Research on Engineering Structures and Materials, vol.1, pp.1-24, 2024 (Scopus)
- III. **ASSESSMENT OF CIRCULAR PRESTRESSING IMPACT ON CONDEEP PLATFORM STORAGE RESERVOIRS VIA MECHANICAL PRINCIPLES**  
Bashirzade S., Özcan O., Garibov R. B.  
EXPERT: THEORY AND PRACTICE, vol.4, no.23, pp.29-35, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **InSAR Coupled with UAV-Based Infrared Thermography in the Context of Bridge Monitoring**  
Altınsoy N., Sisman H. A., Özcan O., ÖZCAN O., Erten E.  
2023 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2023, California, United States Of America, 16 - 21 July 2023, vol.2023-July, pp.5758-5761
- II. **İHA Tabanlı Ölçüm Yöntemleri ile Oyulma Etkisindeki Köprülerin Afet Riski Değerlendirmesi**  
ÖZCAN O., ÖZCAN O.  
TURQUA 2020, 20 - 23 October 2020
- III. **UNMANNED AERIAL VEHICLE-BASED AUTOMATED BRIDGE MULTI-HAZARD ASSESSMENT SYSTEM**  
ÖZCAN O., ÖZCAN O.  
IGARSS 2020, 26 September - 02 October 2020
- IV. **UAV Based Multi-Hazard Vulnerability Assessment System for Bridges Exposed to Scou**  
ÖZCAN O., ÖZCAN O.  
EGU 2020, 4 - 08 May 2020
- V. **Vulnerability Assessment of Bridges Exposed to Scour in a Multi-Hazard Environment by UAV Measurements**  
ÖZCAN O., ÖZCAN O.  
AGU Fall Meeting 2018, Washington, Kiribati, 10 - 14 December 2018
- VI. **İHA TABANLI OYULMA ÖLÇÜMLERİ İLE KÖPRÜ ÇOKLU AFET PERFORMANSININ DEĞERLENDİRİLMESİ**  
ÖZCAN O., ÖZCAN O.  
VII. UZAKTAN ALGILAMA VE CBS SEMPOZYUMU UZAL-CBS2018, Turkey, 18 - 21 September 2018, pp.516-522
- VII. **Evaluation of Bridge Multi-Hazard Performance by Monitoring Morphodynamic Properties of River Basin via UAS**  
ÖZCAN O., ÖZCAN O.  
European Geosciences Union (EGU) General Assembly 2018, Viyana, Austria, 8 - 13 April 2018
- VIII. **Multi-Hazard Assessment of Scour Damaged Bridges with UAS-Based Measurements**  
ÖZCAN O., Özcan O.  
2017 AGU Fall Meeting, New Orleans, United States Of America, 11 - 15 December 2017
- IX. **Monitoring and Quantifying of Hydrogeomorphological Changes on the Flood Plain by Unmanned Aerial Vehicles**  
ÖZCAN O., Özcan O.  
International Symposium on GIS Applications in Geography and Geosciences, Çanakkale, Turkey, 18 - 21 October 2017
- X. **Effect of Hydrogeomorphological Changes in Flood Plain on Bridge Multihazard Performance**  
ÖZCAN O., Özcan O.  
MESAEP 2017 - 19th International Symposium on Environmental Pollution and its Impact on Life in the

Mediterranean Region, Roma, Italy, 3 - 06 October 2017

- XI. **Effect of Pier Scour on Bridge Multi Hazard Performance**  
ÖZCAN O., Özcan O.  
ICOCEE 2017 - 2nd International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017
- XII. **Extreme Changes in Stream Geomorphic Conditions Induced by Fluvial Scour in Bridges**  
ÖZCAN O., Özcan O.  
2016 AGU Fall Meeting, San Francisco, United States Of America, 12 - 16 December 2016, pp.1
- XIII. **Stiffness Modeling of RC Columns Reinforced with Plain Rebars**  
ÖZCAN O.  
5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Girit, Greece, 25 - 27 May 2015, pp.1-11
- XIV. **Experimental Testing of Interaction between Infill Masonry Walls and Structural Elements under Blast Loads**  
Lloyd A. E., ÖZCAN O., Saatçioğlu M.  
11th International Conference on Shock & Impact Loads on Structures, Ottawa, Canada, 14 - 15 May 2015, pp.1-11
- XV. **An Ultimate Drift Based Design Method for FRP Retrofitted RC Columns**  
ÖZCAN O., Binici B., Özcebe G.  
10th International Symposium on Fiber Reinforced Polymer Reinforcement for Reinforced Concrete Structures, Tampa, United States Of America, 3 - 07 April 2011
- XVI. **DESIGN ORIENTED APPROACHES FOR FRP RETROFITTED RC COLUMNS AND CASE STUDY OF TEC2007 EXAMPLE**  
ÖZCAN O., Binici B., Özcebe G.  
Asia-Pacific Conference on FRP in Structures, Seoul, South Korea, 9 - 11 December 2009, pp.545-548
- XVII. **SEISMIC STRENGTHENING OF RECTANGULAR RC COLUMNS WITH CFRPS**  
ÖZCAN O., Binici B., Özcebe G.  
9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, Sydney, Australia, 13 - 15 July 2009, pp.1-4
- XVIII. **Modeling of Fiber Reinforced Polymer Confined Reinforced Concrete Columns with Plain Reinforcing Bars**  
ÖZCAN O., Binici B.  
8th International Congress on Advances in Civil Engineering, Famagusta, Cyprus (Kktc), 15 - 17 September 2008, pp.201-208
- XIX. **SEISMIC RETROFITTING OF REINFORCED CONCRETE COLUMNS USING CARBON FIBER REINFORCED POLYMER (CFRP)**  
ÖZCAN O., Binici B., Özcebe G.  
FIRST ASIA-PACIFIC CONFERENCE ON FRP IN STRUCTURES, Hong Kong, Hong Kong, 12 - 14 December 2007, pp.193-198
- XX. **IMPROVING STRENGTH AND DUCTILITY OF REINFORCED CONCRETE COLUMNS USING CARBON FIBER REINFORCED POLYMER (CFRP)**  
ÖZCAN O., Binici B., Özcebe G.  
Ninth Canadian Conference on Earthquake Engineering, Ottawa, Canada, 26 - 29 June 2007, pp.2195-2204

## Expert Reports

- I. **Açık Tabanca Atış Poligonunun Can ve Mal Güvenliği Açısından Sakıncanın Olup Olmadığına Dair Rapor**  
RENDE H., ÖZCAN O.  
Burdur Özveri Özel Güvenlik Hiz.Ltd.Şti, pp.6, Burdur, 2016
- II. **Burdur Özveri Özel Güvenlik Hiz Ltd Şti 6 Sayfa Burdur**

RENDE H., ÖZCAN O.

2016

- III. **Özer Gencay Mühendislik 203 Sayfa**  
ÖZCAN O.  
2016
- IV. **Denizli/Tavas/Yukarıboğaz Belediyesi/Taşarısı Mevkii GES Projesi Statik Hesap Raporu**  
ÖZCAN O.  
Özer Gencay Mühendislik, pp.203, Denizli, 2016
- V. **Özer Gencay Mühendislik 200 Sayfa Elazığ**  
ÖZCAN O.  
2016
- VI. **Elazığ/Merkez/Yemişlik Köyü GES Projesi Statik Hesap Raporu**  
ÖZCAN O.  
Özer Gencay Mühendislik, pp.200, Elazığ, 2016
- VII. **Elazığ Güneş Panelleri Taşıyıcı Sistem Kontrolü 200 sayfa**  
ÖZCAN O.  
2015
- VIII. **Denizli Güneş Panelleri Taşıyıcı Sistem Kontrolü 200 sayfa**  
ÖZCAN O.  
2015
- IX. **Isparta Havaalanı Çelik Taşıyıcı Sistem Kontrolü 100 sayfa**  
ÖZCAN O., ÇAĞDAŞ İ. U., TÜR R.  
Isparta, 2015
- X. **Konvansiyonel Taşıyıcı Kapı Köprüsü ve Uzay Sistem Mekanik Hareketli Kapılarının Proje Bedelinin Tazmini.**  
ÇAĞDAŞ İ. U., TÜR R., ÖZCAN O.  
1. Asliye Hukuk, pp.8, Isparta, 2014
- XI. **Evaluation of the Cracks Observed in the D Block of Antalya Gazipaşa Hospital with 75 Beds**  
Aydoğdu İ., Özcan O.  
Gürtaş Yapı Endüstri ve Tic.A.Ş., pp.8, Antalya, 2014
- XII. **75 Yataklı Antalya Gazipaşa Hastanesi D Blok Kısımında Görülen Çatlaklar Hakkında Değerlendirme**  
AYDOĞDU İ., ÖZCAN O.  
Gürtaş Yapı Endüstri ve Tic.A.Ş., pp.8, Antalya, 2014

## Supported Projects

Özcan O., Özcan O., Project Supported by Higher Education Institutions, Öngerilmeli Beton Köprülerin Termal Etkiler Altında Davranışının İHA ve Uydu Tabanlı Ölçüm Yöntemleri ile İzlenmesi, 2021 - 2023

ÖZCAN O., ÖZCAN O., Project Supported by Higher Education Institutions, Oyulma Etkisindeki Köprülerin Çoklu Afet Performansının Belirlenmesi, 2018 - 2020

ÖZCAN O., Project Supported by Other Official Institutions, İnsansız Hava Aracı Tabanlı Ölçüm Yöntemleri ile Oyulma Etkisindeki Köprülerin Çoklu Afet Performansının Belirlenmesi, 2018 - 2019

ÖZCAN O., ZAKY M. A., Project Supported by Higher Education Institutions, Oyulma Etkisi Altındaki Köprü Kazıklarının Modellenmesi Ve Zaman Tanım Alanı Analiz Yöntemiyle Davranışının Belirlenmesi, 2018 - 2019

ÖZCAN O., Project Supported by Higher Education Institutions, Stiffness Modeling Of Rc Columns Reinforced With Plain Rebars, 2016 - 2018

Saatçioğlu M., Özcan O., Other International Funding Programs, Behavior of Masonry Walls under Blast Loading, 2013 - 2013

Saatçioğlu M., Özcan O., Project Supported by Public Organizations in Other Countries, Seismic Retrofitting of Reinforced Concrete Columns, 2012 - 2013

Saatçiođlu M., Özcan O., Universities of Other Countries Supported Project, Reinforced Concrete Coupling Beams with Welded Grids, 2008 - 2009

Özcebe G., Binici B., Özcan O., Project Supported by Other Official Institutions, Improving Ductility and Shear Capacity of Reinforced Concrete Columns with Carbon Fiber Reinforced Polymer, 2002 - 2007

## **Memberships / Tasks in Scientific Organizations**

İnşaat Mühendisleri Odası, Member, 2010 - Continues

## **Scientific Refereeing**

International Journal of Engineering and Applied Sciences (IJEAS), Other journals, March 2014

Composite Structures, SCI Journal, December 2009

## **Metrics**

Publication: 51

Citation (WoS): 186

Citation (Scopus): 269

H-Index (WoS): 5

H-Index (Scopus): 6

## **Congress and Symposium Activities**

İnşaat Mühendisleri Odası, Panelists, Antalya, Turkey, 2012

## **Scholarships**

Doktorasonrası Araştırma Bursu, YOK, 2012 - 2013

Postdoctoral Research Fellowship, University, 2012 - 2013

Visiting Researcher Fellowship, University, 2008 - 2009