

## Prof. Güney Özcebe



### Personal Information

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### International Researcher IDs

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ScopusID: 6603476808

Yoksis Researcher ID: 46679

### Biography

He served as teaching and research assistant at Middle East Technical University (METU) and Toronto University between 1980 and 1987. He later joined the Civil Engineering Department at METU in 1987 as a faculty member. He was promoted as associate professor in 1991 and as full professor in 1998. He served as the department chairman from 2006-2012.

Professor Özcebe's field of specialization is on structural earthquake engineering with special emphasis on reinforced concrete structures. His teaching and research areas are design, behavior, and durability of reinforced concrete structures, earthquake engineering, seismic safety assessment of existing buildings, and repair and strengthening of reinforced concrete structures. He is the co-author of two books on reinforced concrete structures and has more than 100 scholarly articles. Özcebe has received many honors and awards over the span of his career, beginning as a University of Toronto Open Scholar in 1982-1987. More recently he received the NATO Summit Science Prize in 2004. His name has been registered 10 times in the Faculty Dean's List for academic performance from 2000-2012.

He acted as a committee member in several code drafting committees. These include "TSE500: Reinforced concrete code of practice" published by the Turkish Standards Institute, "Guidelines for the seismic safety assessment of existing buildings" published by the Ministry of Environment and Urbanization of Turkish Republic, "ISO-15673: Guidelines for the simplified design of structural reinforced" and "Performance and assessment requirements for design standards on structural concrete" published by the International Standards Organization.

Professor Özcebe is members of several professional societies including Turkish Chamber of Civil Engineers (TCCE), Earthquake Engineers Association of Turkey, Turkish Association for Bridge and Structural Engineering and American Concrete Institute (ACI). He is currently bearing responsibility as members of several technical committees established by TCEE and ACI.

Professor Güney Özcebe joined the faculty of TED University as Dean in 2013 and he is married with two children.

### Education Information

Doctorate, University of Toronto, Canada 1982 - 1987

Postgraduate, Middle East Technical University, Civil Engineering, Turkey 1980 - 1981

Undergraduate, Middle East Technical University, Civil Engineering, Turkey 1975 - 1979

### Foreign Languages

French

English

## Academic Titles / Tasks

Professor, TED University, Faculty of Engineering, 2013 - Continues

Professor, 2013 - Continues

Professor, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1998 - 2013

Associate Professor, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1991 - 1998

Assistant Professor, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1988 - 1991

Lecturer, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1987 - 1988

Research Assistant, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1982 - 1987

Research Assistant, University of Toronto, Engineering, Civil Engineering, 1982 - 1987

Research Assistant, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1980 - 1982

## Academic and Administrative Experience

Dean of Engineering, TED University, 2013 - Continues

## Courses

Engineering Mechanics I, Undergraduate, 2022 - 2023

Student Development Seminar, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017

First Year Experience at TEDU, Undergraduate, 2022 - 2023

Reinforced Concrete Fundamentals, Undergraduate, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Reinforced Concrete Structures, Undergraduate, 2020 - 2021, 2019 - 2020

Structure and Architecture, Undergraduate, 2015 - 2016

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

- I. **The successful performance of a reinforced concrete building with FRP strengthened infill walls and externally installed shear walls subjected to Kahramanmaras and Hatay 2023 earthquakes**  
Tan M. T., BİNİCİ B., Kale Ö., Özcebe G.  
Bulletin of Earthquake Engineering, 2024 (SCI-Expanded)
- II. **Finite element modeling of a reinforced concrete frame with masonry infill and mesh reinforced mortar subjected to earthquake loading**  
Redmond L., Ezzatfar P., Des Roches R., Stavridis A., Özcebe G., KURÇ Ö.  
Earthquake Spectra, vol.32, no.1, pp.393-414, 2016 (SCI-Expanded)
- III. **The effect of infill walls on the seismic behavior of boundary columns in RC frames**  
Fenerci A., BİNİCİ B., Ezzatfar P., CANBAY E., Özcebe G.  
Earthquake and Structures, vol.10, no.3, pp.539-562, 2016 (SCI-Expanded)
- IV. **Provisions for the seismic risk evaluation of existing reinforced concrete buildings in Turkey under the urban renewal law**  
BİNİCİ B., YAKUT A., Özcebe G., Erenler A.  
Earthquake Spectra, vol.31, no.3, pp.1353-1370, 2015 (SCI-Expanded)
- V. **Scale effect on CFRP strengthening of infilled reinforced concrete frames**

- Akin E., CANBAY E., BİNİCİ B., Özcebe G.  
Journal of Advanced Concrete Technology, vol.13, no.7, pp.355-366, 2015 (SCI-Expanded)
- VI. **Evaluation of the predictive models for stiffness, strength, and deformation capacity of RC frames with masonry infill walls**  
Turgay T., Durmus M. C., BİNİCİ B., Özcebe G.  
Journal of Structural Engineering (United States), vol.140, no.10, 2014 (SCI-Expanded)
- VII. **Numerical study on CFRP strengthening of reinforced concrete frames with masonry infill walls**  
Akin E., Özcebe G., CANBAY E., BİNİCİ B.  
Journal of Composites for Construction, vol.18, no.2, 2014 (SCI-Expanded)
- VIII. **Performance examination of two seismic strengthening procedures by pseudodynamic testing**  
Gokce Kurt E., KURÇ Ö., BİNİCİ B., CANBAY E., Özcebe G.  
Journal of Structural Engineering (United States), vol.138, no.1, pp.31-41, 2012 (SCI-Expanded)
- IX. **A comparative study on structural wall design approach of 2007 turkish seismic code 2007 deprem bölgelerinde yapılacak binalar hakkında yönetmelikteki perde tasarim yaklaşıminin karşilaş tirmali irdelenmesi**  
KURÇ Ö., Kayışoğlu B., Lüleş A., Özcebe G.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.22, no.3, pp.5487-5508, 2011 (SCI-Expanded)
- X. **Effect of column rectangularity on CFRP-strengthened RC flat plates**  
ERDOĞAN H., BİNİCİ B., Özcebe G.  
Magazine of Concrete Research, vol.63, no.7, pp.511-525, 2011 (SCI-Expanded)
- XI. **Testing and analysis of infilled reinforced concrete frames strengthened with CFRP reinforcement**  
Akin E., CANBAY E., BİNİCİ B., Özcebe G.  
Journal of Reinforced Plastics and Composites, vol.30, no.19, pp.1605-1620, 2011 (SCI-Expanded)
- XII. **Seismic performance of a deficient reinforced concrete test frame with Infill Walls**  
KURT E., BİNİCİ B., KURÇ Ö., CANBAY E., Akpinara A., Özcebe G.  
Earthquake Spectra, vol.27, no.3, pp.817-834, 2011 (SCI-Expanded)
- XIII. **Investigation of FRP strengthening design rules for insufficient RC columns**  
ÖZCAN O., BİNİCİ B., Özcebe G.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.21, no.SPEC. ISSUE, pp.1425-1444, 2010 (SCI-Expanded)
- XIV. **Investigation of FRP strengthening design rules for insufficient RC columns Yetersiz betonarme kolonlar için lifli polimer güç lendirme tasarim kurallarinin irdelenmesi**  
ÖZCAN O., BİNİCİ B., Özcebe G.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.21, no.4, pp.5219-5239, 2010 (SCI-Expanded)
- XV. **Repair and strengthening of reinforced concrete columns with CFRPs**  
ÖZCAN O., BİNİCİ B., CANBAY E., Özcebe G.  
Journal of Reinforced Plastics and Composites, vol.29, no.22, pp.3411-3424, 2010 (SCI-Expanded)
- XVI. **Punching shear strengthening of flat-slabs with CFRP dowels**  
ERDOĞAN H., BİNİCİ B., Özcebe G.  
Magazine of Concrete Research, vol.62, no.7, pp.465-478, 2010 (SCI-Expanded)
- XVII. **Seismic strengthening of rectangular reinforced concrete columns using fiber reinforced polymers**  
ÖZCAN O., BİNİCİ B., Özcebe G.  
Engineering Structures, vol.32, no.4, pp.964-973, 2010 (SCI-Expanded)
- XVIII. **Strengthening of brick infilled reinforced concrete (RC) frames with carbon fiber reinforced polymers (CFRP) sheets**  
Akin E., Özcebe G., Ersoy U.  
Geotechnical, Geological and Earthquake Engineering, vol.10, pp.367-386, 2009 (SCI-Expanded)
- XIX. **Improving seismic performance of deficient reinforced concrete columns using carbon fiber-reinforced polymers**

- ÖZCAN O., BİNİCİ B., Özcebe G.  
Engineering Structures, vol.30, no.6, pp.1632-1646, 2008 (SCI-Expanded)
- XX. **Analysis and design of FRP composites for seismic retrofit of infill walls in reinforced concrete frames**  
BİNİCİ B., Özcebe G., ÖZÇELİK R.  
Composites Part B: Engineering, vol.38, no.5-6, pp.575-583, 2007 (SCI-Expanded)
- XXI. **An experimental study on two different strengthening techniques for RC frames**  
Erdem I., AKYÜZ U., Ersoy U., Özcebe G.  
Engineering Structures, vol.28, no.13, pp.1843-1851, 2006 (SCI-Expanded)
- XXII. **Effect of introducing RC infill on seismic performance of damaged RC frames**  
Turk A. M., Ersoy U., Özcebe G.  
Structural Engineering and Mechanics, vol.23, no.5, pp.469-486, 2006 (SCI-Expanded)
- XXIII. **High-strength concrete columns under eccentric load**  
CANBAY E., Özcebe G., Ersoy U.  
Journal of Structural Engineering, vol.132, no.7, pp.1052-1060, 2006 (SCI-Expanded)
- XXIV. **Seismic vulnerability assessment using regional empirical data**  
YAKUT A., Özcebe G., YÜCEMEN M. S.  
Earthquake Engineering and Structural Dynamics, vol.35, no.10, pp.1187-1202, 2006 (SCI-Expanded)
- XXV. **Statistical seismic vulnerability assessment of existing reinforced concrete buildings in turkey on a regional scale**  
Özcebe G., YÜCEMEN M. S., Aydoğan V.  
Journal of Earthquake Engineering, vol.8, no.5, pp.749-773, 2004 (SCI-Expanded)
- XXVI. **Rehabilitation of reinforced concrete frames with reinforced concrete infills**  
Sonuvar M. O., Özcebe G., Ersoy U.  
ACI Structural Journal, vol.101, no.4, pp.494-500, 2004 (SCI-Expanded)
- XXVII. **Prediction of potential damage due to severe earthquakes**  
YÜCEMEN M. S., Özcebe G., Pay A.  
Structural Safety, vol.26, no.3, pp.349-366, 2004 (SCI-Expanded)
- XXVIII. **Statistical seismic vulnerability assessment of existing reinforced concrete buildings in turkey on a regional scale**  
Özcebe G., Semih Yucemen M., Aydoğan V.  
Journal of Earthquake Engineering, vol.8, no.5, pp.749-773, 2004 (SCI-Expanded)
- XXIX. **Contribution of Reinforced Concrete Infills to Seismic Behavior of Structural Systems**  
CANBAY E., Ersoy U., Özcebe G.  
ACI Structural Journal, vol.100, no.5, pp.637-643, 2003 (SCI-Expanded)
- XXX. **Evaluation of minimum shear reinforcement requirements for higher strength concrete**  
Özcebe G., Ersoy U., Tankut T.  
ACI Structural Journal, vol.96, no.3, pp.361-368, 1999 (SCI-Expanded)
- XXXI. **Minimum flexural reinforcement for T-beams made of higher strength concrete**  
Özcebe G., Ersoy U., Tankut T.  
Canadian Journal of Civil Engineering, vol.26, no.5, pp.525-534, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Application of mesh reinforced mortar for performance enhancement of hollow clay tile infill walls**  
Ezzatfar P., Binici B., Kurç Ö., Canbay E., Sucuoğlu H., Özcebe G.  
GEOTECHNICAL, GEOLOGICAL AND EARTHQUAKE ENGINEERING, vol.26, pp.171-186, 2014 (Scopus)
- II. **Moment-curvature relationship of confined concrete sections**  
Ersoy U., Özcebe G.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.9, no.DEC., pp.549-553, 1998 (Scopus)

- III. **Hysteretic behavior of anchorage slip in R/C members**  
Saatcioglu M., Alsiwat J. M., Özcebe G.  
Journal of Structural Engineering (United States), vol.118, no.9, pp.2439-2548, 1992 (Scopus)
- IV. **Response of reinforced concrete columns to simulated seismic loading**  
Saatcioglu M., Özcebe G.  
ACI Structural Journal, vol.86, no.1, pp.3-12, 1989 (Scopus)
- V. **Hysteretic shear model for reinforced concrete members**  
Özcebe G., Saatcioglu M.  
Journal of Structural Engineering (United States), vol.115, no.1, pp.132-148, 1989 (Scopus)
- VI. **CONFINEMENT OF CONCRETE COLUMNS FOR SEISMIC LOADING.**  
Özcebe G., Saatcioglu M.  
ACI Structural Journal, vol.84, no.4, pp.308-315, 1987 (Scopus)

## **Books & Book Chapters**

- I. **Betonarme Cilt 1 Davranış ve Hesap İlkeleri**  
Ersoy U., Özcebe G., Canbay E.  
Evrin Kitabevi, İstanbul, 2019
- II. **Betonarme Cilt 2 Özel Konular**  
Ersoy U., Özcebe G., Canbay E.  
2019

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **CFRP strengthening of reinforced concrete frames with masonry infill walls: A numerical and parametric study**  
Akin E., Özcebe G.  
4th International Conference on Multi-Functional Materials and Structures, MFMS 2013, Sathorn-Taksin, Bangkok, Thailand, 14 - 17 July 2013, vol.747, pp.51-54
- II. **Performance assessment of RC frames with HCT brick infill walls rehabilitated with MRM by using pseudo dynamic test protocols**  
Ezzatfar P., BİNİCİ B., KURÇ Ö., CANBAY E., SUCUOĞLU H., Özcebe G.  
5th International Conference on Advances in Experimental Structural Engineering, AESE 2013, Taipei, Taiwan, 8 - 09 November 2013, vol.2013-November
- III. **Structural rehabilitation and monitoring of a 28 story building**  
Ersoy U., Tankut T., TÜREK A., Özcebe G.  
Symposium Honoring James O. Jirsa's Contributions in Structural Concrete: A Time to Reflect at the ACI Spring 2012 Convention, Texas, United States Of America, 18 - 22 March 2012, pp.149-161
- IV. **An ultimate drift based design method for FRP retrofitted RC columns**  
ÖZCAN O., BİNİCİ B., Özcebe G.  
10th International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures 2011, FRPRCS-10, in conjunction with the ACI Spring 2011 Convention, Tampa, FL, United States Of America, 2 - 04 April 2011, vol.1, pp.207-218
- V. **Harmonization of Seismic Hazard and Risk Reduction in the Vrancea Zone: Scientific Results of a NATO Research Project**  
Zaicenco A., Craifaleanu I., Paskaleva I., Özcebe G., Lungu D.  
vol.80, pp.86-108
- VI. **Comparisons of different retrofit techniques with pseudo dynamic testing**  
Özcebe G., BİNİCİ B., KURÇ Ö., KURT E., CANBAY E.

9th US National and 10th Canadian Conference on Earthquake Engineering 2010, Including Papers from the 4th International Tsunami Symposium, Toronto, Canada, 25 - 29 July 2010, vol.2, pp.1371-1380

**VII. Performance comparisons of seismic assessment methods with PSD test results of a deficient RC frame**

Özcebe G., KURT E., BİNİCİ B., KURÇ Ö., CANBAY E., Akpınar U.

2009 ATC and SEI Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, San Francisco, CA, United States Of America, 9 - 11 December 2009, pp.319-330

**VIII. Design oriented approaches for FRP retrofitted RC columns and case study of TEC2007 example**

ÖZCAN O., BİNİCİ B., Özcebe G.

2nd Asia-Pacific Conference on FRP in Structures, APFIS 2009, Seoul, South Korea, 9 - 11 December 2009, pp.545-548

**IX. Strengthening of brick infilled RC frames by diagonal CFRP fabrics**

Özcebe G., Akin E.

2nd Asia-Pacific Conference on FRP in Structures, APFIS 2009, Seoul, South Korea, 9 - 11 December 2009, pp.169-177

**X. Seismic retrofitting of reinforced concrete columns using carbon fiber reinforced polymer (CFRP)**

ÖZCAN O., BİNİCİ B., Özcebe G.

1st Asia-Pacific Conference on FRP in Structures, APFIS 2007, Hong Kong, China, 12 - 14 December 2007, vol.1, pp.193-198

**XI. A new CFRP strengthening technique to enhance punching shear strength of RC slab-column connections**

ERDOĞAN H., Özcebe G., BİNİCİ B.

1st Asia-Pacific Conference on FRP in Structures, APFIS 2007, Hong Kong, China, 12 - 14 December 2007, vol.1, pp.233-238

**XII. Seismic evaluation of infilled reinforced concrete frames strengthened with FRPS**

BİNİCİ B., Özcebe G.

8th US National Conference on Earthquake Engineering 2006, San Francisco, CA, United States Of America, 18 - 22 April 2006, vol.1, pp.92-101

**XIII. Seismic risk assessment of existing building stock in istanbul a pilot application in Zeytinburnu district**

Özcebe G., SUCUOĞLU H., Semih Yucemen M., YAKUT A., Kubin J.

8th US National Conference on Earthquake Engineering 2006, San Francisco, CA, United States Of America, 18 - 22 April 2006, vol.5, pp.2891-2900

**XIV. Developing retrofit solutions for the residential building stocks in Istanbul**

SUCUOĞLU H., Jury R., Ozmen A., Hopkins D., Özcebe G., Kubin J.

8th US National Conference on Earthquake Engineering 2006, San Francisco, CA, United States Of America, 18 - 22 April 2006, vol.6, pp.3667-3676

**XV. In defence of Zeytinburnu**

Özcebe G., Sucuoglu H., Yucemen M. S., Yakut A.

vol.66, pp.95-0

**XVI. In service seismic strengthening of RC framed buildings**

Tankut T., Ersoy U., Özcebe G., Baran M., Okuyucu D.

vol.66, pp.47-0

**XVII. Analysis of infilled reinforced concrete frames strengthened with FRPS**

Binici B., Özcebe G.

vol.66, pp.455-0

**XVIII. Uniaxially loaded high-strength concrete spiral columns**

CANBAY E., Koru B., Özcebe G., Ersoy U.

7th International Symposium on the Utilization of High-Strength/High-Performance Concrete, Washington, United States Of America, 20 - 24 June 2005, vol.SP-228, pp.557-575

**XIX. Identifying buildings with high seismic risk under urban renewal law in Turkey**

BİNİCİ B., YAKUT A., Taniser S., Özcebe G.

Seismic Assessment of Existing Reinforced Concrete Buildings: New Developments - Report on Efforts of the Committee for Seismic Repair and Rehabilitation, vol.SP-297

- XX. **Occupant friendly seismic retrofit (OFR) of RC framed buildings**  
Baran M., Duvarci M., Tankut T., Ersoy U., Özcebe G.  
vol.29, pp.433-456
- XXI. **Retrofitting of rein forced concrete frames with rein forced concretein fill walls**  
Turk A. M., Ersoy U., Özcebe G.  
2003 fib Symposium on Concrete Structures in Seismic Regions, Athens, Greece, 6 - 08 May 2003, pp.376-377
- XXII. **Preliminary seismic vulnerability assessment of existing reinforced concrete buildings in Turkey  
Part II: Inclusion of site characteristics**  
Yakut A., Aydogan V., Özcebe G., Yucemen M.  
vol.29, pp.43-58
- XXIII. **Preliminary seismic vulnerability assessment of existing reinforced concrete buildings in Turkey -  
Part I: Statistical model based on structural characteristics**  
Özcebe G., Yucemen M., Aydogan V., Yakut A.  
vol.29, pp.29-42
- XXIV. **A comparative study on the strengthening of RC frames**  
Erdem I., Akyuz U., Ersoy U., Özcebe G.  
vol.29, pp.407-432
- XXV. **Strengthening of infilled walls with CFRP sheets**  
Ersoy U., Özcebe G., Tankut T., Akyuz U., Erduran E., Erdem I.  
vol.29, pp.305-334
- XXVI. **Lessons from recent earthquakes in Turkey and seismic rehabilitation of buildings**  
Ersoy U., Özcebe G.  
S.M. Uzumeri Symposium - Behavior and Design of Concrete Structures for Seismic Performance, held at the ACI  
2000 Fall Convention, Toronto, Canada, 15 - 20 October 2000, vol.SP-197, pp.105-126
- XXVII. **Rehabilitation of moderately damaged reinforced concrete buildings after June 27, 1998 Ceyhan  
Earthquake**  
Özcebe G., SUCUOĞLU H., Sonuvar M., Gür T.  
4th International Conference on Repair, Rehabilitation, and Maintenance of Concrete Structures, and Innovations  
in Design and Construction, Seoul, South Korea, 19 - 22 September 2000, vol.SP-193, pp.937-957