

## Asst. Prof. SERKAN SAĐIROĐLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-8862-2021

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### Education Information

Doctorate, Northeastern University, Graduate School Of Engineering / Civil And Environmental Engineering, United States Of America 2005 - 2012

Postgraduate, Bogazici University, Institute Of Science, İnşaat Mühendisliđi (YI) (Tezli), Turkey 2000 - 2004

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey 1996 - 2000

### Research Areas

Civil Engineering, Structure

### Academic Titles / Tasks

Assistant Professor, Bursa Uludađ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĐİ, 2016 - Continues  
Assistant Professor, Maltepe University, Faculty Of Engineering And Natural Sciences, Department Of Civil Engineering, 2013 - 2016

Research Assistant, Northeastern University, 2005 - 2010

Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Civil Engineering, 2002 - 2004

### Courses

NÜMERİK ANALİZ, Undergraduate, 2017 - 2018, 2016 - 2017

İLERİ YAPISAL ANALİZ, Undergraduate, 2017 - 2018, 2016 - 2017

MAKİNE TEMELLERİ, Doctorate, 2017 - 2018

DEPREME DAYANIKLI YAPI TASARIMI, Doctorate, 2017 - 2018

BETONARME YAPILARIN DOĐRUSAL OLMAYAN ANALİZİ, Postgraduate, 2017 - 2018, 2016 - 2017

YAPI STATİĐİ, Undergraduate, 2017 - 2018, 2016 - 2017

BİLGİSAYAR DESTEKLİ YAPI ANALİZİ, Undergraduate, 2017 - 2018

MESLEKİ YABANCI DİL I, Undergraduate, 2017 - 2018

PERFORMANSA DAYALI TASARIM, Postgraduate, 2017 - 2018, 2016 - 2017

## Advising Theses

SAĞIROĞLU S., Investigation of effective section rigidity used in the design of new concrete structures and evaluation of existing concrete structures, Postgraduate, E.Bek(Student), 2021

SAĞIROĞLU S., Investigation of earthquake performance of masonry buildings according to earthquake codes, Postgraduate, A.Amani(Student), 2019

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

- I. **Experimental investigation of flexural bond behavior of sand-coated GFRP rebar embedded in concrete**  
Sakcalı G. B., Yüksel İ., SAĞIROĞLU S.  
Journal of Building Engineering, vol.87, 2024 (SCI-Expanded)
- II. **Experimental setup for beams with adjustable rotational stiffness: An educational perspective**  
TÜRKER H. T., SAĞIROĞLU S., DELİKTAŞ B.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.30, no.2, pp.564-574, 2022 (SCI-Expanded)
- III. **Seismicity of East Anatolian of Turkey and Failures of Infill Walls Induced by Major Earthquakes**  
DOĞANGÜN A., YÖN B., ONAT O., Emin Oncu M., SAĞIROĞLU S.  
JOURNAL OF EARTHQUAKE AND TSUNAMI, vol.15, no.04, 2021 (SCI-Expanded)
- IV. **COMPARISON OF FRESH AND HARDENED PROPERTIES OF SELF-COMPACTING CONCRETE MIXTURE FROM DIFFERENT ASPECT RATIO OF STEEL FIBER VIEW POINT**  
Ouedraogo H. A., Ozen S., Kobya V., SAĞIROĞLU S., MARDANI AGHABAGLOU A.  
JOURNAL OF GREEN BUILDING, vol.16, no.1, pp.115-138, 2021 (AHCI)
- V. **Progressive collapse resistance of RC beams**  
Livingston E., Sasani M., Bazan M., Sagioglu S.  
ENGINEERING STRUCTURES, vol.95, pp.61-70, 2015 (SCI-Expanded)
- VI. **Progressive Collapse-Resisting Mechanisms of Reinforced Concrete Structures and Effects of Initial Damage Locations**  
Sagioglu S., Sasani M.  
JOURNAL OF STRUCTURAL ENGINEERING, vol.140, no.3, 2014 (SCI-Expanded)
- VII. **Progressive Collapse Resistance of an Actual 11-Story Structure Subjected to Severe Initial Damage**  
Sasani M., Kazemi A., Sagioglu S., Forest S.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.137, no.9, pp.893-902, 2011 (SCI-Expanded)
- VIII. **Gravity Load Redistribution and Progressive Collapse Resistance of 20-Story Reinforced Concrete Structure following Loss of Interior Column**  
Sasani M., Sagioglu S., Chen S., Zhang X.  
ACI STRUCTURAL JOURNAL, vol.108, no.5, pp.641-643, 2011 (SCI-Expanded)
- IX. **Gravity Load Redistribution and Progressive Collapse Resistance of 20-Story Reinforced Concrete Structure following Loss of Interior Column**  
Sasani M., Sagioglu S.  
ACI STRUCTURAL JOURNAL, vol.107, no.6, pp.636-644, 2010 (SCI-Expanded)
- X. **Progressive collapse resistance of Hotel San Diego**  
Sasani M., Sagioglu S.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.134, no.3, pp.478-488, 2008 (SCI-Expanded)
- XI. **Progressive collapse of reinforced concrete structures: A multihazard perspective**  
Sasani M., Sagioglu S.  
ACI STRUCTURAL JOURNAL, vol.105, no.1, pp.96-103, 2008 (SCI-Expanded)
- XII. **Experimental and analytical progressive collapse evaluation of actual reinforced concrete structure**  
Sasani M., Bazan M., Sagioglu S.  
ACI STRUCTURAL JOURNAL, vol.104, no.6, pp.731-739, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Experimental and numerical investigation of the bond behavior of smooth and sand-coated rebar in concrete by flexural bond test method**  
Sakcali G. B., YÜKSEL İ., SAĞIROĞLU S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2023 (ESCI)
- II. **ÖRNEK BİR YIĞMA BİNA ÜZERİNDE 1998, 2007 VE 2019 TÜRK DEPREM YÖNETMELİKLERİNİN KARŞILAŞTIRMALI OLARAK İRDELENMESİ**  
Amani A., Sağiroğlu S., Doğangün A.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.25, no.1, pp.13-26, 2020 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Bond Behavior of Sand-Coated GFRP Rebar Embedded in Concrete**  
SAKCALI G. B., SAĞIROĞLU S., YÜKSEL İ.  
in: Earthquake Resistant Design, Protection, and Performance Assessment in Earthquake Engineering, , Editor, Springer, pp.406-414, 2024

## Refereed Congress / Symposium Publications in Proceedings

- I. **Bond Behavior of Sand-Coated GFRP Rebar Embedded in Concrete**  
Sakcali G. B., SAĞIROĞLU S., YÜKSEL İ.  
International Congress on Advanced Earthquake Resistant Structures (AERS), Baku, Azerbaijan, 26 - 28 April 2023, pp.406-414
- II. **Örnek Bir Bina İçin Yapısal Performans ile Maliyet Arasındaki İlişkinin İncelenmesi**  
SAĞIROĞLU S., Haj Hamad A.  
3rd GLOBAL CONFERENCE on ENGINEERING RESEARCH, Turkey, 13 September 2023
- III. **Ayarlanabilir Dönme Rijitliğine Sahip Mesnetlerle Tutulu Kirişler için Deney Düzeneği Oluşturulması**  
SAĞIROĞLU S., TÜRKER H. T., sadri r., DELİKTAŞ B.  
iSTE-CE'xx2019- International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, 13 - 15 June 2019
- IV. **FARKLI a/d ORANINA SAHİP BETONARME KİRİŞLERİN EĞİLME DAVRANIŞLARI ÜZERİNE DENEYSEL VE NÜMERİK BİR ÇALIŞMA**  
SAĞIROĞLU S., ALMAHDİA F., VARDAR İ.  
20. ULUSAL MEKANİK KONGRESİ, Turkey, 5 - 09 September 2017

## Patent

Türker H. T., Deliktaş B., Sağiroğlu S., DEĞİŞKEN DÜŞEY VE DÖNME RİJİTLİKLERİNE SAHİP MESNETLİ KİRİŞLER İÇİN DENEY DÜZENEĞİ , Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2022/010910 , Standard Registration, 2023

## Metrics

Publication: 19  
Citation (WoS): 579  
Citation (Scopus): 780  
H-Index (WoS): 8

H-Index (Scopus): 8