Asst. Prof. SERKAN SAĞIROĞLU

Personal Information

Email: serkansagiroglu@uludag.edu.tr
Web: https://avesis.uludag.edu.tr/serkansagiroglu

International Researcher IDs
ORCID: 0000-0001-7248-3409
Publons / Web Of Science ResearcherID: AAH-8862-2021
Yoksis Researcher ID: 58372

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 Mühendisliği (Yl) (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 Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 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 DOĞRUSAL OLMAYAN ANALİZİ, Postgraduate, 2017 - 2018, 2016 - 2017
YAPI STATİĞİ, 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 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)

II. **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)

III. **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)

IV. **Progressive collapse resistance of RC beams**
Livingston E., Sasani M., Bazan M., Sagiroglu S.
ENGINEERING STRUCTURES, vol.95, pp.61-70, 2015 (SCI-Expanded)

V. **Progressive Collapse-Resisting Mechanisms of Reinforced Concrete Structures and Effects of Initial Damage Locations**
Sagiroglu S., Sasani M.
JOURNAL OF STRUCTURAL ENGINEERING, vol.140, no.3, 2014 (SCI-Expanded)

VI. **Progressive Collapse Resistance of an Actual 11-Story Structure Subjected to Severe Initial Damage**
Sasani M., Kazemi A., Sagiroglu S., Forest S.
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.137, no.9, pp.893-902, 2011 (SCI-Expanded)

VII. **Gravity Load Redistribution and Progressive Collapse Resistance of 20-Story Reinforced Concrete Structure following Loss of Interior Column**
Sasani M., Sagiroglu S., Chen S., Zhang X.
ACI STRUCTURAL JOURNAL, vol.108, no.5, pp.641-643, 2011 (SCI-Expanded)

VIII. **Gravity Load Redistribution and Progressive Collapse Resistance of 20-Story Reinforced Concrete Structure following Loss of Interior Column**
Sasani M., Sagiroglu S.
ACI STRUCTURAL JOURNAL, vol.107, no.6, pp.636-644, 2010 (SCI-Expanded)

IX. **Progressive collapse resistance of Hotel San Diego**
Sasani M., Sagiroglu S.
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.134, no.3, pp.478-488, 2008 (SCI-Expanded)

X. **Progressive collapse of reinforced concrete structures: A multihazard perspective**
Sasani M., Sagiroglu S.
ACI STRUCTURAL JOURNAL, vol.105, no.1, pp.96-103, 2008 (SCI-Expanded)

XI. **Experimental and analytical progressive collapse evaluation of actual reinforced concrete structure**
Sasani M., Bazan M., Sagiroglu 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., Sağıroğlu S., Doğangün A.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.25, no.1, pp.13-26, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **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

Metrics

Publication: 15
Citation (WoS): 577
Citation (Scopus): 777
H-Index (WoS): 8
H-Index (Scopus): 8