

## Prof. HAKAN YALÇINER



### Personal Information

**Other Email:** hakan.yalciner@emu.edu.tr

**Email:** hyalciner@erzincan.edu.tr

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**Address:** Erzincan Binali Yıldırım Üniversitesi İnşaat Mühendisliği İnşaat Mühendisliği



### International Researcher IDs

ScholarID: MipZK-4AAAAJ

ORCID: 0000-0002-7289-3384

Publons / Web Of Science ResearcherID: AAO-9863-2020

ScopusID: 36176497400

Yoksis Researcher ID: 196405

### Education Information

Doctorate, Eastern Mediterranean University, Fen Bilimleri, İnşaat Mühendisliği/Yapı Mekaniği, Cyprus (Kktc) 2007 - 2012

Doctorate, McMaster University, Fen Bilimleri, İnşaat Mühendisliği, Canada 2009 - 2010

Postgraduate, European University Of Lefke, Fen Bilimleri, İnşaat Mühendisliği, Cyprus (Kktc) 2005 - 2007

Undergraduate, Lefke Avrupa Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2000 - 2005

### Biography

Dr. Hakan Yalciner received his B.Sc. degree from Civil Engineering Department at European University of Lefke (EUL) with a high honor degree in 2005. Dr. Hakan Yalciner was a student assistant between 2003 and 2005 years. He worked at the same university as a research assistant between 2005-2007. At the same period, he worked in the Centre for Construction Innovation and Research at the same university. His researches in CIR included Information Technology, Knowledge Management, and Expert Systems in Construction. Between 2005 and 2007 he completed his MSc with thesis at European University of Lefke. On the other hand, he has studied in construction management and involved in a TUBITAK project in this field during his MSc studies. Dr. Hakan Yalciner received his PhD degree from Civil Engineering Department at Eastern Mediterranean University in Structural Engineering and Material Engineering programs in 2012. During his PhD education, he found an opportunity to join some experimental studies (strengthening of RC beams by FRP anchorage) at McMaster University in Canada under the supervision of Prof. Dr. A. Ghani Razaqpur. During his PhD education, he developed new corrosion models for the prediction of ultimate bond strength of un-corroded and corroded reinforcement bars as a function of concrete cover depths, concrete strength levels for different corrosion levels. Dr. Yalciner developed new corrosion models for the prediction of time-dependent seismic performance levels of reinforced concrete buildings. Although his PhD thesis focused on corrosion and seismic performance levels of reinforced concrete buildings, he found opportunity to study on other areas like repairing and strengthening of reinforced concrete buildings. He published different and journal papers on these subjects.

Dr. Hakan Yalciner is expert on corrosion, earthquake and blast load analysis. He is a member of ACI Committee on Corrosion Studies. Dr. Yalciner has been working at Erzincan University as an Earthquake Engineer.

## Foreign Languages

English, C2 Mastery

## Certificates, Courses and Trainings

Education Management and Planning, Eğiticilerin Eğitim Sertifikası, Erzincan Binali Yıldırım Üniversitesi, 2021

## Dissertations

Doctorate, Predicting Performance Level of Reinforced Concrete Structures Subject to Corrosion as a Function of Time/Korozyona Maruz Kalmış Betonarme Yapıların Zamana Bağlı Performans Seviyelerinin Tahmin Edilmesi, Eastern Mediterranean University, Faculty Of Engineering, Department Of Civil Engineering, 2012

Postgraduate, CHALLENGES OF KNOWLEDGE MANAGEMENT THROUGH LESSONS LEARNED PRACTICES IN CONSTRUCTION INDUSTRY: A NORTH CYPRUS PERSPECTIVE, Lefke Avrupa Üniversitesi, Construction Management, Civil Engineering, 2007

## Research Areas

Civil Engineering, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Corrosion and Corrosion Protection

## Academic Titles / Tasks

Associate Professor, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - Continues

Assistant Professor, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2013 - 2017

Assistant Professor, Cyprus International University, Department Of Engineering, Department Of Civil Engineering, 2013 - 2014

Lecturer PhD, European University Of Lefke, Faculty Of Engineering, İnşaat Mühendisliği, 2012 - 2013

Research Assistant, Eastern Mediterranean University, Faculty Of Engineering, İnşaat Mühendisliği, 2007 - 2012

Research Assistant, McMaster University, Department Of Engineering, Department Of Civil Engineering, 2010 - 2011

Research Assistant, European University Of Lefke, Faculty Of Engineering, İnşaat Mühendisliği, 2005 - 2007

## Academic and Administrative Experience

Rectorate Commissioner, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2021 - Continues

Head of Department, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - Continues

Head of Department, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2015 - Continues

Fakülte Kurulu Üyesi, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - 2019

Staj Başkanı, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - 2018

Head of Department, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2015 - 2018

Head of Department, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Meteoroloji Mühendisliği Bölümü, 2013 - 2016

## Courses

Betonarme 2, Undergraduate, 2021 - 2022

Betonarme 2, Undergraduate, 2021 - 2022

Betonarme 1, Undergraduate, 2021 - 2022

Bitirme Projesi, Undergraduate, 2020 - 2021

Bitirme Projesi, Undergraduate, 2020 - 2021

Betonarme 1 , Undergraduate, 2020 - 2021

Betonarme Yapıların Davranışı , Postgraduate, 2020 - 2021

BİTİRME TEZİ , Undergraduate, 2019 - 2020

Yapılarda Onarım ve Güçlendirme, Postgraduate, 2020 - 2021

MUKAVEMET 1 , Undergraduate, 2019 - 2020

MUKAVEMET 2, Undergraduate, 2019 - 2020

Betonarme 1 , Undergraduate, 2020 - 2021

BİTİRME TEZİ , Undergraduate, 2019 - 2020

İNŞAAT MÜH. ANA TASARIM 2, Undergraduate, 2019 - 2020

Yapılarda Onarım ve Güçlendirme , Postgraduate, 2018 - 2019

Korozyona Maruz Kalmış Betonarme Yapıların Yapısal Davranışları, Postgraduate, 2018 - 2019

YAPI STATİĞİ 1, Undergraduate, 2018 - 2019

BİLGİSAYAR DESTEKLİ SONLU ELEMANLAR, Undergraduate, 2019 - 2020

İNŞAAT MÜH. ANA TASARIM 1 , Undergraduate, 2019 - 2020

Betonarme Yapıların Davranışı , Postgraduate, 2018 - 2019

BETONARME-II , Undergraduate, 2018 - 2019

BİLGİSAYAR DESTEKLİ SONLU ELEMANLAR , Undergraduate, 2018 - 2019

BETONARME 1 , Undergraduate, 2018 - 2019

BETONARME 2, Undergraduate, 2018 - 2019

BETONARME 2, Undergraduate, 2018 - 2019

TEZ, Doctorate, 2017 - 2018

Seminer Dersi, Doctorate, 2017 - 2018

YAPI MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI , Undergraduate, 2017 - 2018

Uzmanlık Alan Dersi, Doctorate, 2017 - 2018

YAPI MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI , Undergraduate, 2017 - 2018

YAPI MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI , Undergraduate, 2017 - 2018

BİLGİSAYAR PROGRAMLI YAPI ANALİZİ , Undergraduate, 2017 - 2018

BETONARME 1 , Undergraduate, 2018 - 2019

BETONARME 1 , Undergraduate, 2018 - 2019

BİLGİSAYAR PROGRAMLI YAPI ANALİZİ, Undergraduate, 2017 - 2018

BİLGİSAYAR PROGRAMLI YAPI ANALİZİ, Undergraduate, 2017 - 2018

Betonarme Yapıların Değerlendirilmesi , Postgraduate, 2017 - 2018, 2014 - 2015

Tez , Postgraduate, 2016 - 2017

YAPI HASARLARI , Undergraduate, 2015 - 2016

Uzmanlık Alan Dersi, Postgraduate, 2015 - 2016

DEPREME DAYANAKLI YAPI TASARIMI, Undergraduate, 2015 - 2016

YAPI HASARLARI , Undergraduate, 2015 - 2016

BİTİRME PROJESİ, Undergraduate, 2015 - 2016

MUKAVEMET-I, Undergraduate, 2016 - 2017  
DEPREME DAYANIKLI YAPI TASARIMI , Undergraduate, 2015 - 2016  
BETONARME-I , Undergraduate, 2016 - 2017  
MUKAVEMET-I, Undergraduate, 2016 - 2017  
Danışmanlık, Postgraduate, 2015 - 2016  
BİTİRME PROJESİ, Undergraduate, 2015 - 2016  
Seminer Dersi , Postgraduate, 2015 - 2016  
BETONARME-I , Undergraduate, 2015 - 2016  
YAPI HASARLARI , Undergraduate, 2015 - 2016  
BETONARME-II, Undergraduate, 2015 - 2016  
BETONARME PROJESİ, Undergraduate, 2014 - 2015  
ÇELİK YAPILAR-I, Undergraduate, 2014 - 2015  
ÇELİK YAPILAR-I , Undergraduate, 2014 - 2015  
STAJ-II , Undergraduate, 2014 - 2015  
STAJ-II, Undergraduate, 2014 - 2015  
DEPREM MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2015 - 2016  
BETONARME-II, Undergraduate, 2015 - 2016  
DEPREME DAYANAKLI YAPI TASARIMI , Undergraduate, 2015 - 2016  
DEPREM MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2015 - 2016  
BETONARME-I , Undergraduate, 2014 - 2015  
BETONARME-I , Undergraduate, 2014 - 2015  
BETONARME PROJESİ , Undergraduate, 2014 - 2015  
YAPI ONARIM VE GÜÇLENDİRME, Associate Degree, 2013 - 2014  
Betorname Yapıların Sismik Performans Seviyelerinin Hesaplanması, Postgraduate, 2014 - 2015  
YAPI ONARIM VE GÜÇLENDİRME , Associate Degree, 2013 - 2014  
MUKAVEMET-II , Undergraduate, 2013 - 2014  
KARAYOLU İNŞAATI-II, Associate Degree, 2013 - 2014  
ÇELİK YAPILAR-I , Undergraduate, 2014 - 2015  
İNŞ1304.1 , Undergraduate, 2014 - 2015  
YAPI GÜVENLİĞİ , Associate Degree, 2013 - 2014  
BETONARME PROJESİ , Undergraduate, 2014 - 2015  
MUKAVEMET-II, Undergraduate, 2013 - 2014  
Betonarme Yapıların Değerlendirilmesi, Postgraduate, 2013 - 2014  
YAPI GÜVENLİĞİ, Associate Degree, 2013 - 2014  
STAJ-I, Undergraduate, 2013 - 2014  
BETONARME-II , Associate Degree, 2013 - 2014  
STAJ-I , Undergraduate, 2013 - 2014  
Makale Yazma Teknikler, Postgraduate, 2014 - 2015  
Betonarme Yapıların Değerlendirilmesi , Postgraduate, 2013 - 2014  
DİNAMİK , Undergraduate, 2013 - 2014  
DİNAMİK , Undergraduate, 2013 - 2014  
DİNAMİK , Undergraduate, 2013 - 2014  
YAPI ONARIM VE GÜÇLENDİRME , Undergraduate, 2013 - 2014  
YAPI GÜVENLİĞİ , Undergraduate, 2012 - 2013  
DİNAMİK , Undergraduate, 2013 - 2014

## **Advising Theses**

Yalçın H., Korozyona Maruz Kalmış Geleneksel Ve Perlit Agregası Kullanılarak Üretilen Beton İçin Donatı-Aderans İlişkisinin Deneysel Olarak İncelenmesi, Postgraduate, E.KARAKELLE(Student), 2024

Yalçiner H., Perlitli Beton ve Geleneksel Betondan Üretilmiş Küp Numunelerde Beton ve Donatı Arasındaki Aderans Dayanımının İncelenmesi, Postgraduate, R.ERTAŞ(Student), 2024

Yalçiner H., Perlit ile üretilmiş betonarme kolonların tersinir yük etkisi altında yapısal davranışlarının incelenmesi, Postgraduate, S.ATLI(Student), 2023

Yalçiner H., Investigation of structural behavior of corroded reinforced concrete columns, Postgraduate, A.ÇELİK(Student), 2020

Yalçiner H., Korozyona Maruz Kalmış Tam Ölçekli Betonarme Kolonlarda Aderans-Kayma İlişkisinin Deneysel Olarak İncelenmesi, Postgraduate, M.FIRAT(Student), 2019

Yalçiner H., Korozyona Maruz Kalmış Betonarme Kolonların Monotonik Yükleme Etkisi Altında Yapısal Davranışlarının İncelenmesi, Postgraduate, R.Kohistani(Student), 2019

Yalçiner H., Paslanmaya Maruz Kalmış Betonarme Kirişlerin Eğilme Etkisi Altında FRP İle Güçlendirilmesi, Postgraduate, E.DOĞRU(Student), 2019

YALÇINER H., Effect of Corrosion on Flexural Strength of Reinforced Concrete Beams with Polypropylene Fibers., Doctorate, K.BİÇER(Student), 2019

Yalçiner H., Paslanmaya Maruz Kalmış Betonarme Kirişlerin Burulma Dayanımı, Postgraduate, A.İhsan(Student), 2019

Yalçiner H., Korozyona Maruz Kalmış Tam Ölçekli Betonarme Kolonlarının Sismik Performans Seviyelerinin Birincil Çatlak Genişliğine Bağlı Olarak Tahmin Edilmesi, Postgraduate, A.KARİMİ(Student), 2019

Yalçiner H., Tarihi Diyarbakır Dicle (On Gözlü) Köprüsü'nün Sonlu Eleman Yöntemiyle Analizi, Postgraduate, O.DEMİR(Student), 2019

Yalçiner H., Paslanmaya Maruz Kalmış Betonarme Kirişlerde Geo-Grid Kullanımının Süneklik Üzerindeki Etkisi, Postgraduate, İ.ERTUNC(Student), 2019

Yalçiner H., Geo-grid Sargılı ve Polipropilen Katkılı Betonarme Kirişlerinde Eğilme Davranışlarının İncelenmesi, Postgraduate, U.ERGÜN(Student), 2018

## Jury Memberships

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, May, 2022

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, June, 2020

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, June, 2020

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, June, 2020

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, June, 2018

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, June, 2016

## Designed Courses And Trainings

Yalçiner H., İDECAD, February 2014

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

- I. **An experimental evaluation on structural performance level of corroded reinforced concrete frames**  
Turan A. İ., Ayaz Y., Yalçiner H., Kumbasaroğlu A.  
Engineering Structures, vol.325, pp.1-20, 2025 (SCI-Expanded)
- II. **Assessment of reinforced concrete building damages following the Kahramanmaraş earthquakes in Malatya, Turkey (February 6, 2023)**  
Turan A. İ., Çelik A., Kumbasaroğlu A., Yalçiner H.  
Engineering Science and Technology, an International Journal, vol.54, 2024 (SCI-Expanded)
- III. **Experimental Study to Predict Bond-Slip Behavior of Corroded Reinforced Concrete Columns**  
YALÇINER H., KUMBASAROĞLU A.

ACI Structural Journal, vol.119, no.5, pp.111-128, 2022 (SCI-Expanded)

- IV. **An experimental study on seismic performance levels of highly corroded reinforced concrete columns**  
Çelik A., Yalçiner H., Kumbasaroğlu A., Turan A. İ.  
STRUCTURAL CONCRETE, vol.23, no.1, pp.32-50, 2022 (SCI-Expanded)
- V. **Effect of polypropylene fibers on the development lengths of reinforcement bars of slabs**  
Kumbasaroğlu A., Yalciner K., Yalçiner H., Turan A. İ., Çelik A.  
Case Studies in Construction Materials, vol.15, 2021 (SCI-Expanded)
- VI. **Experimental evaluation and modeling of corroded reinforced concrete columns**  
Yalçiner H., Kumbasaroğlu A.  
ACI Structural Journal, vol.117, no.4, pp.61-76, 2020 (SCI-Expanded)
- VII. **Flexural Strength of Corroded Reinforced Concrete Beams**  
Yalciner H., Kumbasaroglu A., El-Sayed A. K., Balkis A. P., Dogru E., Turan A., Karimi A., Kohistani R., Mermit M. F., Bicer K.  
ACI STRUCTURAL JOURNAL, vol.117, pp.29-41, 2020 (SCI-Expanded)
- VIII. **Torsional behavior of reinforced concrete beams with corroded reinforcement**  
Yalçiner H., Kumbasaroğlu A., Turan A. İ.  
STRUCTURES, vol.20, pp.476-488, 2019 (SCI-Expanded)
- IX. **Effect of corrosion on flexural strength of reinforced concrete beams with polypropylene fibers**  
Bicer K., Yalçiner H., Balks A. P., Kumbasaroğlu A.  
CONSTRUCTION AND BUILDING MATERIALS, vol.185, pp.574-588, 2018 (SCI-Expanded)
- X. **Effects of Geo-grid and Conventional Stirrups on Reinforced Concrete Beams With Polypropylene Fibers**  
Yalçiner H., Kumbasaroğlu A., Ergun U.  
STRUCTURES, vol.13, pp.230-242, 2018 (SCI-Expanded)
- XI. **Confinement Effect of Geo-grid and Conventional Shear Reinforcement Bars Subjected to Corrosion**  
Yalçiner H., Kumbasaroğlu A., Ertuc I., Turan A. İ.  
Structures, vol.13, pp.139-152, 2018 (SCI-Expanded)
- XII. **Experimental study on the bond strength of different geometries of corroded and uncorroded reinforcement bars**  
Yalçiner H., Marar K.  
Journal of Materials in Civil Engineering, vol.29, 2017 (SCI-Expanded)
- XIII. **Seismic Performance Assessment of a Corroded 50-Year-Old Reinforced Concrete Building**  
Yalçiner H., Sensoy S., Eren O.  
Journal of Structural Engineering (United States), vol.141, no.12, 2015 (SCI-Expanded)
- XIV. **Structural Response to Blast Loading: The Effects of Corrosion on Reinforced Concrete Structures**  
Yalciner H.  
SHOCK AND VIBRATION, 2014 (SCI-Expanded)
- XV. **An experimental study on the bond strength between reinforcement bars and concrete as a function of concrete cover, strength and corrosion level**  
Yalçiner H., Eren O., Sensoy S.  
CEMENT AND CONCRETE RESEARCH, vol.42, pp.643-655, 2012 (SCI-Expanded)
- XVI. **Time-dependent seismic performance assessment of a single-degree-of-freedom frame subject to corrosion**  
Yalciner H., Sensoy S., Eren O.  
ENGINEERING FAILURE ANALYSIS, vol.19, pp.109-122, 2012 (SCI-Expanded)
- XVII. **Effect of corrosion damage on the performance level of a 25-year-old reinforced concrete building**  
Yalciner H., Sensoy S., Eren O.  
SHOCK AND VIBRATION, vol.19, pp.891-902, 2012 (SCI-Expanded)
- XVIII. **Assessment of an existing RC building before and after strengthening using nonlinear static procedure and incremental dynamic analysis**

## Articles Published in Other Journals

- I. **Experimental and Analytical Investigation of Moment-Carrying Capacities of Reinforced Concrete Frame Systems Corroded by Accelerated Corrosion Method**  
Turan A. İ., Ayaz Y., Yalçiner H., Kumbasarođlu A., Çelik A.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.2, pp.755-772, 2024 (Peer-Reviewed Journal)
- II. **An assessment of the seismic performance of the historic tigris bridge**  
Kumbasarođlu A., Çelik A., Demir O., Turan A. İ., Yalçiner H.  
OPEN JOURNAL OF CIVIL ENGINEERING, vol.8, no.3, pp.230-239, 2019 (Peer-Reviewed Journal)
- III. **Paslanmaya Maruz Kalmış Tam Ölçekli Betonarme Kolonların Monotonik Yükleme Etkisi Altında Yapısal Davranışlarının İncelenmesi: Korozyon Çalışmaları İçin Öneriler**  
Yalçiner H., Kumbasarođlu A., Mermit M. F., Kohistani R., Karimi A.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.695-713, 2019 (Peer-Reviewed Journal)
- IV. **Prediction of seismic performance levels of corroded reinforced concrete columns as a function of crack width**  
Yalçiner H., Kumbasarođlu A., Karimi A.  
Advances in Civil Engineering Materials, vol.8, no.3, 2019 (Scopus)
- V. **Korozyona Maruz Kalmış Betonarme Kirişlerin Eğilme Davranışları**  
Ertuc İ., Yalçiner H., Kumbasarođlu A.  
Erzincan University Journal of Science and Technology, vol.11, no.1, pp.1-10, 2018 (Peer-Reviewed Journal)
- VI. **Performance Assessment of Some Reinforced Concrete Buildings under Construction: The Case of North Cyprus**  
Yalçiner H., Marar K.  
Canadian Journal of Basic and Applied Sciences, vol.1, no.2, pp.77-87, 2013 (Peer-Reviewed Journal)
- VII. **Olası Marmara Depremi, İstanbul Depremi ve Kullanılan Hasar Değerlendirme Metotları**  
YALÇINER H.  
TMMOB İnsaat Mühendisleri Odası Antalya Subesi, 2013 (Peer-Reviewed Journal)
- VIII. **Repairing and Strengthening of an Existing Reinforced Concrete Building: A North Cyprus Perspective**  
Yalçiner H., Hedayat A.  
AMERICAN JOURNAL OF ENGINEERING AND APPLIED SCIENCES, vol.3, no.1, pp.109-116, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Dynamic Analysis Methods For Structures and Practices**  
Yalçiner H., Çelik A., Kumbasarođlu A. (Member Of Editors Board)  
Intechopen, London, 2020
- II. **Nano-sentetik Elyafaların Aderans Boyuna Etkisi: Eğilme Testi Altında Betonarme Döşemelerin Deneysel Çalışması**  
Kumbasarođlu A., Yalçiner K., Yalçiner H., Turan A. İ., Çelik A., Biçer K., Yangıbayev U., Kohistani R.  
in: Toplum - Bilim Akademik Araştırmalar, Prof.Dr. Ali ARSLAN, Editor, Paradigma Yayınları, İstanbul, pp.31-53, 2020
- III. **New Trends in Structural Engineering**  
Yalçiner H. (Editor), Farsangi E. N. (Editor)  
Intechopen, London, 2018

- IV. **Seismic Performance Evaluation of Corroded Reinforced Concrete Structures by Using Default and User-Defined Plastic Hinge Properties**  
Yalçiner H., Marar K.  
in: Earthquake Engineering, "Sezen,H.", Editor, Intech, Alabama, pp.281-302, 2012

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Structural Behavior of Reinforced Concrete Beam With Perlite Under the Effect of Monotonic Load**  
Polat M. Ş., Kumbasaroğlu A., Yalçiner H., Ayaz Y., Turan A. İ., Çelik A.  
19. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 16 - 17 March 2024, no.4, pp.55-63
- II. **Investigation of the Bond-Reinforcement Slip Relationship Between Conventional and Natural Perlite Concrete and Reinforcement Bar**  
Ertaş R., Yalçiner H., Kumbasaroğlu A., Ayaz Y., Turan A. İ., Çelik A.  
19. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 16 - 17 March 2024, no.21, pp.106-116
- III. **Investigation of the Compressive and Flexural Strength of Concrete With Perlite Under the Effect of High Temperature**  
Öztürk A. B., Kumbasaroğlu A., Yalçiner H., Ayaz Y., Çelik A., Turan A. İ.  
19. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 16 - 17 March 2024, pp.64-73
- IV. **Investigation of Experimental Models for Predicting Mechanical Properties of Corroded Reinforcement Bars**  
Karakelle E., Yalçiner H., Kumbasaroğlu A., Ayaz Y., Turan A. İ., Çelik A.  
19. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 16 - 17 March 2024, no.22, pp.117-125
- V. **Developing Software Using the FEMA-154 Rapid Assessment Method**  
Daleh D. H., Yalçiner H., Kumbasaroğlu A.  
2th International Congress on Engineering and Sciences, İstanbul, Turkey, 16 - 17 December 2023, vol.56, no.52866, pp.145-155
- VI. **Investigation of the Structural Behavior of Reinforced Concrete Columns Produced With Natural Perlite under Cyclic Loading Test**  
Atlı S., Yalçiner H., Turan A. İ., Çelik A., Kumbasaroğlu A., Bulut H. A.  
4th International Symposium of Engineering Applications on Civil Engineering and Earth Sciences 2023 (IEACES2023), Karabük, Turkey, 31 May - 02 June 2023, pp.318-326
- VII. **Kahramanmaraş Pazarcık (Mw=7.7) ve Elbistan (Mw=7.6) Depremlerinin Betonarme Yapılarda Meydana Getirdiği Hasarların Tasarım ve Malzeme/İşçilik Kusurları Açısından Değerlendirilmesi (Malatya İli Örneği)**  
Kumbasaroğlu A., Yalçiner H., Çelik A., Turan A. İ.  
DEPREM ARAŞTIRMALARI SANAL KONFERANSI, Ankara, Turkey, 30 - 31 March 2023, pp.126-127
- VIII. **Korozyonlu Betonarme Kolonların Deneysel Korozyon Seviyelerinin Teorik Korozyon Seviyeleriyle Karşılaştırılması**  
Yangibayev U., Kumbasaroğlu A., Turan A. İ., Yalçiner H., Çelik A.  
15. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 17 - 18 December 2022, vol.1, pp.132-141
- IX. **PREDICTION OF SEISMIC PERFORMANCE LEVELS OF CORRODED REINFORCED FRAMES**  
Ayaz Y., Yalçiner H., Kumbasaroğlu A., Turan A. İ., Çelik A.  
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- XI. **Cyclic loading test on highly corroded reinforced concrete columns**  
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- XII. **Korozyona Uğrayan Betonarme Kolonların Aderans Dayanımının Tahmini**  
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- XIII. **Cyclic Loading Test on Highly Corroded Reinforced Concrete Columns**  
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- XIV. **KOROZYONA MARUZ KALMIŞ BETONARME KOLONLARIN YAPISAL DAVRANIŞLARININ DENEYSEL OLARAK İNCELENMESİ**  
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- XV. **The effect of infill wall frames on seismic performance levels of reinforced concrete buildings**  
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- XVI. **Deprem etkisindeki yığma yapılarda hasar değerlendirme Erzincan ili 92 depremi sonrası**  
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- I. **Yapı Mevcut Durum Değerlendirilmesi ve Performans Analizi Teknik Heyet Raporu**  
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- II. **Yapı Mevcut Durum Değerlendirilmesi ve Performans Analizi Bilirkiři Heyet Raporu**  
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- III. **Erzincan Çatalarmut Eski Jandarma Karakol Binası Deprem Güvenliđi Tespit Raporu**  
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- IV. **Erzincan Yıldırım Akbulut Havalimanı Hava Trafik Kontrol Kulesi Deprem Güvenliđi Tespiti Raporu**  
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- V. **Refahiye Mesleki ve Teknik Anadolu Lisesi Lojmanları Yapı Deprem Performansının Belirlenmesi**  
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- XII. **Alabalık Yavru Üretimi Binası'na ait Risk Tespiti Bilirkiři Raporu**  
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- XIII. **ÇAMOLUK YURT BİNASI BİLİRKİŞİ RAPORU**  
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- XIV. **TEİAŞ BİNALARI BİLİRKİŞİ RAPORU**

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**XV. Eski Milli Eğitim Müdürlüğü Binasına Ait Risk Tespiti Bilirkişi Raporu**

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## Supported Projects

YALÇINER H., Project Supported by Other Private Institutions, Çelik fiberlerin yapısal davranış üzerine etkisi, 2019 - Continues

Turan A. İ., Yalçiner H., Ayaz Y., Project Supported by Higher Education Institutions, Paslanmaya Maruz Bırakılmış Betonarme Çerçevelerin Çevrimsel Yükleme Etkisi Altında Yapısal Davranışlarının Deneysel Olarak İncelenmesi, 2023 - 2024

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Ayaz Y., Yalçiner H., Kumbasaroğlu A., Turan A. İ., Çelik A., Project Supported by Higher Education Institutions, Korozyona Maruz Kalmış Betonarme Çerçevelerin Sismik Performans Seviyelerinin Tahmin Edilebilmesi İçin Ampirik Modellerin Geliştirilmesi, 2021 - 2022

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YALÇINER H., ERTUÇ İ., Project Supported by Higher Education Institutions, Paslanmaya Maruz Kalmış Betonarme Kirişlerde GeoGrid Kullanımının Süneklik Üzerindeki Etkisi, 2016 - 2017

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## Activities in Scientific Journals

SCIENCE PROGRESS, Assistant Editor/Section Editor, 2023 - Continues

Journal of Review in science and engineering, Committee Member, 2018 - Continues

American Journal of Civil Engineering, Committee Member, 2018 - Continues

Research in Civil and Environmental Engineering, Committee Member, 2018 - Continues  
Causes of Deterioration in Structures, First Editor, 2018 - Continues  
Committee Member, 2018 - 2021  
Challenge Journal of Structural Mechanics, Editor, 2016 - 2018

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

Amerika Beton Enstitüsü-Onarım ve Güçlendirme Komitesi, Member of Science Committee, 2018 - Continues  
Amerika Beton Enstitüsü-Korozyon Komitesi, Member of Advisory Board, 2018 - Continues

## **Scientific Refereeing**

Engineering Structures, SCI Journal, May 2024  
BULLETIN OF EARTHQUAKE ENGINEERING, SCI Journal, May 2024  
Journal of Building Pathology and Rehabilitation, SCI Journal, May 2024  
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CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, May 2024  
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Mathematical Problems in Engineering, National Scientific Refreed Journal, April 2018  
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Steel and Composite Structures, SCI Journal, November 2015  
Computers and Concrete, SCI Journal, October 2015  
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Earthquake Engineering and Engineering Vibration, SCI Journal, September 2015  
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## Metrics

Publication: 81

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H-Index (Scopus): 12

## Congress and Symposium Activities

8. Yapı Mekaniği Laboratuvarları Çalıştayı, Attendee, Eskişehir, Turkey, 2022

STRUCTURAL PERFORMANCE OF CORRODED RC MEMBERS-DEVELOPED EMPIRICAL MODELS, Invited Speaker, Nevada, United States Of America, 2018

7th ARCHENG-2012 International Architecture and Engineering Symposiums, Working Group, Lefke, Cyprus (Kkct), 2012

5th international symposium on civil and environmental engineering, Invited Speaker, Lefke, Cyprus (Kkct), 2008

Proceedings of the 4FAE international symposium - Creating the future, Invited Speaker, Lefke, Cyprus (Kkct), 2006

## Invited Talks

KARİYER GÜNLERİ, Seminar, ERZİNCAN LİSESİ, Turkey, February 2020

KARİYER GÜNLERİ, Seminar, DOĞA KOLEJİ, Turkey, December 2018

Seismic performance assessment of corroded RC buildings, Seminar, University of Nevada, Las Vegas, United States Of America, August 2018

## Awards

Yalçın H., ERZİNCAN İÇİN BİR FİKRİM VAR, Türkiye Cumhuriyeti Erzincan Valiliği, March 2022

Yalçın H., EN COK INDIRILEN ILK 5 YAYIN ODULU, Elsevier, August 2012

YALÇINER H., EN COK INDIRILEN YAYIN ODULU, ELSEVIER, June 2012

Yalçın H., YÜKSEK ŞEREF BELGESİ, Lefke Avrupa Üniversitesi, June 2002

## Representation and Promotion Activities

Institutional Promotion, ERZİNCAN LİSESİ, Turkey, Erzincan, 2020 - 2020

Institutional Promotion, Doğa Koleji, Turkey, Erzincan, 2018 - 2018

Institutional Promotion, NEVADA ÜNİVERSİTESİ, United States Of America, California, 2018 - 2018